R1.6 ANNEX 1 – Set of Fiches of 2020

Dissemination level: PU (public) ~~/ **RE** (restricted) / **CO** (confidential)~~

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Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

CYBER SECURITY OF INFORMATION AND TELECOMMUNICATIONS SYSTEMS

Description	The studies are dedicated for people who want to acquire knowledge and skills enabling them to work in information technology security cells and necessary for further development in the field of cybersecurity. The aim of the study is to familiarize participants with the basic problems of computer network security, computer systems and applications. At the same time, knowledge of cyber security that participants will possess at an intermediate level will allow them to further develop on one of many possible certification pathways making them security experts in enterprises of any scale.
Organizer	**Polish-Japanese Academy of Information Technology**
Cooperation with	STM Solutions
Duration	**2 semesters, 210 hours**
Thematic scope	• Security in the Linux operating system • Designing and configuring computer networks • Theoretical foundations of security and cryptography • Security of computer and telecommunications networks • Systems Security • Application security • Information security management • Security in the cloud
Costs	Cost: 4 300 PLN/semester + recruitment fee
No of ECTS credits	No data
E-learning	No data
Tools	HackingDept
Job opportunities	Work in information technology security cells
Additional info	The studies are delivered only in Polish
www	www.pja.edu.pl/en/postgraduate-courses-mba/postgraduate/general-information

Nr 001/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional **project**	University course Postgraduate studies	**C4ISTAR : command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

THE EUROPEAN DEFENCE SKILLS PARTNERSHIP

Description	Supported by the COSME programme (Europe's programme for SMEs), a process was launched in March 2018 to complete evidence on skills, introduce an industry-led European Defence Skills Partnership (EDSP) and deliver a sectoral skills strategy, agreed and validated among stakeholders. In the first phase various consultations, surveys and interviews took place in the framework of the EDSP. The result was an extensive report, called Vision on defence-related skills for Europe today and tomorrow report(opens in a new window). It provided insights on the drivers that shape the supply and demand for skills in the defence industry. It also presented a picture of where there are skills mismatches and gaps today and in future. During the second phase, further research efforts were undertaken as well as a series of workshops and bilateral contacts. The outcome of this work will serve as an important input into the preparation of a European defence skills strategy. This strategy will provide a coherent, integrated reply to the skills challenges and issues at hand.
Goal	The EDSP aims to share knowledge and best practices on skills for developing the European defence skills strategy and its implementation.
Lead Partner	RAND Europe
Partners involved	
Duration	
Results	Vision on defence related skills for Europe today and tomorrow, January 2019
Funding	
www	https://eu-ems.com/practical.asp?event_id=4370&page_id=9614

Nr 002/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

THE EUROPEAN DEFENCE SKILLS PARTNERSHIP

Description	Launched in 2015, CYBERSEC is an annual public policy conference dedicated to strategic security aspects of the global technology revolution. It has embraced the need for trust-based, multilateral and cross-sectoral cooperation. As a result, CYBERSEC is a thriving inter-national community that combines the knowledge and experience of experts and professionals. CYBERSEC is an opportunity to meet and discuss the current issues of cyber disruption and ever-changing landscape of cybersecurity related threats. CYBERSEC will consist of a series of formats and events targeting a full spectrum of cybersecurity actors and dimensions in an effort to secure the world's digital DNA in the most collaborative and inclusive manner possible.
Goal	The mission of the conference is to foster the building of an Europe-wide cybersecurity system and to create a dedicated, collaborative platform for the governments, international organisations and key private sector companies.
Organizer	The Kosciuszko Institute Association
Co-organizers/ Patrons	Patrons: The European Parliament, the European Commission, NATO, the Chancellery of the Prime Minister of Poland, the Chancellery of the President of Poland, the National Security Bureau, the Ministry of Digital Affairs, etc.
Topics	• Secure 5G infrastructure as a backbone of digital transformation • Security among the Alliance, building capabilities together • Hedging against hybrid threats • Cybersecurity of drones in remote military operations • Revealing power of OSINT (Open Source Intelligence) in the digital environment • Geopolitics of cybersecurity – forthcoming implications of the digital cold war • Countering AI-powered threats • Industrial cyberespionage campaigns • Building the resilience of Industry 4.0 by protecting the Industrial Internet of Things (IIoT) • Securing the digital transformation of financial services etc.
Date	**29-30 OCT 2019**
Costs	Max 750 Euro
www	https://cybersecforum.eu/en/poland/

Nr 003/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	**Cybersecurity**

Title:

EUROPEAN CYBERSECURITY JOURNAL

Description	The European Cybersecurity Journal (ECJ) is a specialised publication devoted to cybersecurity. The main goal of the Journal is to provide concrete policy recommendations for European decision-makers and raise awareness on both issues and problem-solving instruments. The Journal had its premiere during the CYBERSEC Forum 2015. The ECJ is a platform of regular dialogue on the most strategic aspects of cybersecurity. Readers of the ECJ get insights on the most important trends in cybersecurity and have an opportunity to get to know first-hand perspectives from leading specialists.
Goal / Target audience	• European-level representatives, sectoral agencies of the European Union, International Organisations Representatives, including NATO • National-level officials of European countries, Government representatives and Regulatory Affairs Directors & Managers, as well as diplomatic representatives • Law Enforcement & Intelligence Officers, Military & Defence Ministries Officials • Legal Professionals, Representatives for Governance, Audit, Risk, Compliance, and investors • Chief Executive Officers, business decision-makers in the fields related to critical infrastructure, including Information and Communications Technology, Data Privacy & Cybersecurity, Finance & insurance, Power Generation & Distribution, Transportation, Manufacturing & Automotive, Chemical Industries, Mining & Petroleum, Pharmaceutical • Opinion leaders, specialized media, academic experts
Publisher	The Kosciuszko Institute Association
Topics/ Content	• ANALYSES from experts and practitioners on the most crucial issues related to cybersecurity • POLICY REVIEWS of the most important official public documents • INTERVIEWS with opinion leaders and business leaders • Exclusive OPINIONS from decision-makers and stakeholders • ANNUAL REPORT presenting the conclusions of the European Cybersecurity Forum CYBERSEC
ISSN	2450-2111
www	https://2019.cybersecforum.eu/en/about-ecj/

Nr 004/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

SECURE CODE WARRIOR

Description	Fun, competitive and engaging training equips developers to think and act with a security mindset every day. It is 100% hands-on and confronts the developer with different vulnerabilities in diverse code samples. The platform enables developers to view their progress throughout their journey. They can see which challenges they have completed, their strengths and weaknesses, time spent on training and their accuracy. The gamified aspect of the platform offers hints and allows developers to earn points and collect badges, with anonymized leader boards for teams. The platform is constantly expanding and updating. The platform currently has hundreds of short challenges, covering over 50 common vulnerabilities, including the OWASP top 10 (Injection, Broken Authentication, Sensitive Data Exposure, XML External Entities (XXE), Broken Access Control, Security Misconfiguration, Cross-Site Scripting XSS, Insecure Deserialization, Using Components with Known Vulnerabilities, Insufficient Logging & Monitoring). suite of languages and frameworks are constantly updated. New daily challenges are created.
Goal	Build and verify developer secure coding skills with self-paced, scalable, online training
Organizer	Secure Code Warrior®
Prerequisites	No data
Duration	No data
Exams	No data
No of ECTS credits	No data
E-learning	Yes / ~~No~~
Jobs opportunities	Secure coding developer
www	https://securecodewarrior.com

Nr 005/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

PRACTICAL MACHINE LEARNING FROM BASICS

Description	On-line course in which students can learn basics of machine learning. It is directed to people who have no background in the field and helps them develop skills necessary for creating machine learning models. The course is conducted only in Polish.
Goal	To learn how to implement a solution from start to finish.
Organizer	DataWorkshop
Prerequisites	no
Duration	**56 days**
Exams	no
Prize	2939,70 zł
No of ECTS credits	
E-learning	Yes
Job opportunities	data analyst, data engineer
www	https://dataworkshop.eu/pl/practical-machine-learning

Nr 006/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

PRACTICAL TIME-SERIES FORECASTS

Description	On-line course in which student can learn basics of machine learning area – time-series forecasts. It is directed to people who already know the basics of machine learning want to understand how to make time series forecasts effectively. The course is conducted only in Polish.
Goal	To learn how to implement a solution from start to finish.
Organizer	DataWorkshop
Prerequisites	no
Duration	**42 days**
Exams	no
Prize	2939,70 zł
No of ECTS credits	
E-learning	Yes
Job opportunities	data analyst, data engineer
www	https://dataworkshop.eu/pl/time-series

Nr 007/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DATAWORKSHOP CLUB CONF

Description	It is a conference directed to machine learning and artificial intelligence practitioners. During the conference there are a lot of lectures presented by invited experts. There are also workshops and chances to perform some networking. The conference is transmitted on-line.
Goal	To present state-of-the-art in the machine learning field and create a space for scientists and engineers to share knowledge and experience.
Organizer	DataWorkshop
Co-organizers/ Patrons	
Topics	machine learning, deep learning, artificial intelligence
Date	28.09.2019
Costs	
www	https://conf.dataworkshop.eu/

Nr008/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

GŁĘBOKIE SIECI NEURONOWE – ZASTOSOWANIA W MEDIACH CYFROWYCH (DEEP NEURAL NETWORKS - APPLICATIONS IN DIGITAL MEDIA)

Description	The study is addressed to designers and programmers of applications that use or create intelligent modules based on deep neural networks, including Big Data applications, but also to all those who want to acquire knowledge and skills in this field. Study participants acquire the basic knowledge and skills necessary for the design and programming of artificial intelligence modules based on deep networks, with particular emphasis on applications in digital media in the following areas: image and sound compression, speech signal improvement, detection and recognition of objects in the image, steganography image, automatic image annotation, 3D modelling for the needs of human-machine interface, and data security supported by signal analysis.
Organizer	Warsaw University of Technology
Cooperation with	Promity, babblelabs
Duration	**2 semesters, 192 hours**
Thematic scope	Deep learning, 3D modelling, data security
Costs	8000 PLN/ year
Language	Polish
No of ECTS credits	
E-learning	
Tools	
Job opportunities	
Additional info	
www	https://deeplearning.ire.pw.edu.pl/

Nr 009/2020

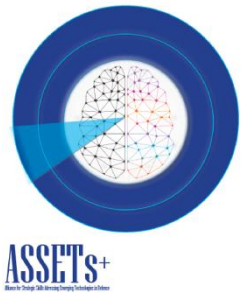
Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DATA SCIENCE – ALGORYTMY, NARZĘDZIA I APLIKACJE DLA PROBLEMÓW TYPU BIG DATA (DATA SCIENCE - ALGORITHMS, TOOLS AND APPS FOR BIG DATA PROBLEMS)

Description	The aim of the study is to provide students with practical skills in the field of processing and analysis of large data and to familiarize them with the role of data in decision-making processes and the use of data as valuable strategic assets. The studies are intended for people who want to use the knowledge contained in large data volumes to support decision making, in particular for analysts and decision makers in the area of finance, banking, insurance, production, marketing, trade, services, healthcare, energy industry, science and others areas of activity. Participants are required to have basic programming skills in any language and basic knowledge of database and SQL language issues.
Organizer	Warsaw University of Technology
Cooperation with	Sages, SAS, Tableau, Allegro, Lingaro
Duration	**2 semesters, 197 hours**
Thematic scope	Big data, R programming, data mining, text mining, artificial intelligence
Costs	10000 PLN/ year
Language	Polish
No of ECTS credits	
E-learning	
Tools	
Job opportunities	
Additional info	
www	http://datascience.ii.pw.edu.pl/datascience.html

Nr 010/2020

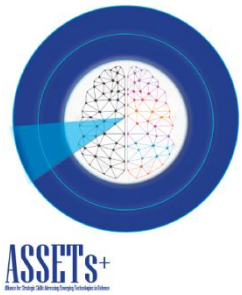
Fiche developed in the frame of 	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DATA SCIENCE SUMMIT

Description	Data Science Summit is the largest independent data science conference in Central and Eastern Europe. The event is additionally accompanied by a part with Partner stands (technology and solution providers) and the only Data Science Job Fair in Poland
Goal	
Organizer	Academic Partners Foundation
Co-organizers/ Patrons	Faculty of Mathematics and Information Science of Warsaw University of Technology, Data Science Warsaw
Topics	Machine Learning, Data Mining & Exploration, Big Data, Real Time Data Processing
Date	14.06.2019
Costs	
www	https://dssconf.pl/

Nr 011/2020

Fiche developed in the frame of 	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

THE EUROPEAN CONFERENCE ON MACHINE LEARNING AND PRINCIPLES AND PRACTICE OF KNOWLEDGE DISCOVERY IN DATABASES

Description	This event is the premier European machine learning and data mining conference and builds upon over 18 years of successful events and conferences held across Europe.
Goal	
Organizer	Ghent University
Co-organizers/ Patrons	
Topics	
Date	14-18.09.2020
Costs	
www	https://ecmlpkdd2020.net/

Nr012/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ACTA CYBERNETICA

Description	Acta Cybernetica covers a broad range of topics in the area of Computer Science. The major themes are as follows: ● Theoretical Computer Science ● Management Science and Operations Research ● Algorithms, Machine Learning, and Artificial Intelligence ● Computer Vision and Pattern Recognition ● Electrical and Electronic Engineering ● Software ● Information Systems and Management Acta Cybernetica is abstracted by Mathematical Reviews, Computing Reviews, Zentralblatt für Mathematik and ACM Digital Library It is also indexed by Scopus, DBLP, EBSCO and Emerging Sources Citation Index (ESCI).
Goal / Target audience	
Publisher	Institute of Informatics, University of Szeged, Szeged, Hungary.
Topics/ Content	
ISSN	ISSN 0324-721X (Print) ISSN 2676-993X (Online)
www	https://www.inf.u-szeged.hu/kutatas/acta-cybernetica

Nr 013/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ACTA MECHANICA ET AUTOMATICA

Description	The journal is covered by many services in which the main examples are: • Clarivate Analytics - Emerging Sources Citation Index • Clarivate Analytics - Web of Science • Elsevier - SCOPUS
Goal / Target audience	Main goal is to publish theoretical and experimental works of various mechanical, automatics and robotics problems.
Publisher	Bialystok University of Technology
Topics/ Content	Mechanics, automatics, robotics
ISSN	ISSN 1898-4088 (printed) ISSN 2300-5319 (online)
www	http://www.acta.mechanica.pb.edu.pl/

Nr 014/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ADCAIJ: ADVANCES IN DISTRIBUTED COMPUTING AND ARTIFICIAL INTELLIGENCE JOURNAL

Description	The Advances in Distributed Computing and Artificial Intelligence Journal is an open access journal that publishes articles which contribute new results associated with distributed computing and artificial intelligence, and their application in different areas, such as the Internet, electronic commerce, mobile communications, wireless devices, distributed computing and so on. These technologies are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses. Authors are solicited to contribute to the journal by submitting articles that illustrate research results, projects, surveying works and industrial experiences that describe significant advances in the areas of computing. It has indexed in DOAJ, ProQuest, Scholar, WorldCat, Dialnet, Sherpa ROMEO, Dulcinea, UlrichWeb, Emerging Sources Citation Index of Thomson Reuters, BASE y Academic Journals Database.
Goal / Target audience	Adcaij focuses attention in the exchange of ideas between scientists and technicians. Both, academic and business areas, are essential to facilitate the development of systems that meet the demands of today's society.
Publisher	University of Salamanca
Topics/ Content	Distributed computing and artificial intelligence and their application in different areas
ISSN	ISSN: 2255-2863
www	https://revistas.usal.es/index.php/2255-2863/index

Nr 015/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

AI & SOCIETY

Description	AI & Society: Knowledge, Culture and Communication, is an International Journal publishing refereed scholarly articles, position papers, debates, short communications, and reviews of books and other publications. Established in 1987, the Journal focuses on societal issues including the design, use, management, and policy of information, communications and new media technologies, with a particular emphasis on cultural, social, cognitive, economic, ethical, and philosophical implications.
Goal / Target audience	AI & Society seeks to promote an understanding of the potential, transformative impacts and critical consequences of pervasive technology for societies.
Publisher	Springer
Topics/ Content	artificial intelligence, robotics, computer science, engineering economics, Man-Machine Symbiosis, Mechatronics, Performing Arts, Methodological approaches in the social sciences
ISSN	ISSN: 0951-5666 (Print) ISSN: 1435-5655 (Online)
www	https://link.springer.com/journal/146

Nr 016/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

AI COMMUNICATIONS

Description	AI Communications is a journal on Artificial Intelligence (AI) which has a close relationship to EurAI (European Association for Artificial Intelligence, formerly ECCAI). It covers the whole AI community: scientific institutions as well as commercial and industrial companies. AI Communications aims to enhance contacts and information exchange between AI researchers and developers, and to provide supranational information to those concerned with AI and advanced information processing.
Goal / Target audience	AI Communications aims to enhance contacts and information exchange between AI researchers and developers, and to provide supranational information to those concerned with AI and advanced information processing.
Publisher	EurAI (European Association for Artificial Intelligence, formerly ECCAI)
Topics/ Content	Artificial Intelligence, Computer & Communication Sciences
ISSN	ISSN print: 0921-7126 ISSN online: 1875-8452
www	https://www.aicommunications.eu/

Nr 017/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ARTIFICIAL INTELLIGENCE FOR ENGINEERING DESIGN, ANALYSIS AND MANUFACTURING: AIEDAM

Description	The journal publishes original articles about significant AI theory and applications based on the most up-to-date research in all branches and phases of engineering. Suitable topics include: analysis and evaluation; selection; configuration and design; manufacturing and assembly; and concurrent engineering. Specifically, the journal is interested in the use of AI in planning, design, analysis, simulation, qualitative reasoning, spatial reasoning and graphics, manufacturing, assembly, process planning, scheduling, numerical analysis, optimization, distributed systems, multi-agent applications, cooperation, cognitive modelling, learning and creativity. AI EDAM is also interested in original, major applications of state-of-the-art knowledge-based techniques to important engineering problems.
Goal / Target audience	
Publisher	Cambridge University Press
Topics/ Content	Artificial Intelligence, Industrial and Manufacturing Engineering
ISSN	ISSN print: 08900604 ISSN online: 14691760
www	https://www.cambridge.org/core/journals/ai-edam

Nr 018/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ANNALS OF MATHEMATICS AND ARTIFICIAL INTELLIGENCE

Description	Annals of Mathematics and Artificial Intelligence presents a range of topics of concern to scholars applying quantitative, combinatorial, logical, algebraic and algorithmic methods to diverse areas of Artificial Intelligence, from decision support, automated deduction, and reasoning, to knowledge-based systems, machine learning, computer vision, robotics and planning.
Goal / Target audience	Annals of Mathematics and Artificial Intelligence hopes to influence the spawning of new areas of applied mathematics and strengthen the scientific underpinnings of Artificial Intelligence.
Publisher	Springer
Topics/ Content	Artificial Intelligence
ISSN	ISSN print: 1012-2443 ISSN online: 1573-7470
www	https://www.springer.com/journal/10472

Nr 019/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

APPLIED INTELLIGENCE

Description	With a focus on research in artificial intelligence and neural networks, this journal addresses issues involving solutions of real-life manufacturing, defense, management, government and industrial problems which are too complex to be solved through conventional approaches and require the simulation of intelligent thought processes, heuristics, applications of knowledge, and distributed and parallel processing. The integration of these multiple approaches in solving complex problems is of particular importance.
Goal / Target audience	The journal presents new and original research and technological developments, addressing real and complex issues applicable to difficult problems. It provides a medium for exchanging scientific research and technological achievements accomplished by the international community.
Publisher	Springer
Topics/ Content	Artificial Intelligence, neural networks
ISSN	ISSN print: 0924-669X ISSN online: 1573-7497
www	https://link.springer.com/journal/10489

Nr 020/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ML IN PL CONFERENCE

Description	The ML in PL Conference is an event focused on the best of Machine Learning both in academia and in business. Participants gather to listen to the invited speakers from top research facilities, discuss bright ideas presented on the poster sessions and in the contributed talks, as well as focus on the practical aspects of ML during the workshop day.
Goal	
Organizer	ML in PL Association
Co-organizers/ Patrons	Why R? Foundation, MIMUW Community
Topics	Artificial intelligence, machine learning
Date	22 - 25.11.2019
Costs	
www	https://conference.mlinpl.org/

Nr021/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ACM/IEEE International Conference on Human-Robot Interaction

Description	HRI is the annual conference for basic and applied human-robot interaction research. Each year, the HRI Conference highlights a particular area through a theme. The theme of HRI 2020 is "Real World Human-Robot Interaction". The HRI conference is a highly selective annual international conference that aims to showcase the very best interdisciplinary and multidisciplinary research in human-robot interaction with roots in and broad participation from communities that include but are not limited to robotics, artificial intelligence, human-computer interaction, human factors, design, and social and behavioral sciences.
Goal	To present best work to HRI to exchange ideas about the theory, technology, data, and science furthering the state-of-the-art in human-robot interaction.
Organizer	Cambridge, UK
Co-organizers/ Patrons	
Topics	robotics, artificial intelligence, human-computer interaction, human factors, design, and social and behavioral sciences
Date	**24- 26.03.2020**
Costs	
www	http://humanrobotinteraction.org/2020/

Nr022/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics**, **autonomous systems**, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

Humanoid Robotics, Artificial Intelligence and Automation

Description	The 2020 conference is focusing on the theme "**Humanoid robotics, AI and Automation"** to enhance and explore the latest trends & future aspects of current technology on humanoid robots among the IT professionals, mechanical engineer, scientist, researchers and innovators along with the Industrial community to establish corporations and exchanging ideas for a better understanding of the field of humanoid robotics, AI and automation and its future aspects. Humanoid 2020 aims to provide the right stage to present stimulating keynote talks, plenary sessions, panel discussion, b2b meetings, posters, symposia, video presentations, and workshops.
Goal	To to enhance and explore the latest trends & future aspects of current technology on Humanoid robotics.
Organizer	Conference Series LLC Ltd
Co-organizers/ Patrons	
Topics	humanoid robotics, artificial intelligence, automation
Date	**21-22.05.2020**
Costs	
www	https://humanoid.annualcongress.com/

Nr023/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

International Conference on Robotics and Mechatronics

Description	The ICRoM 2020 will provide a premier interdisciplinary platform for scientists, researchers, industry leaders, engineers and educators throughout the world to present and discuss the most recent innovations, trends, concerns, as well as practical challenges encountered, and streamline solutions in the fields of Automation and Mechatronics Engineering. The meeting will provide an opportunity to highlight recent developments and to identify emerging and future areas of growth in Robotics and Mechatronics.
Goal	The main goal of ICRoM 2020 is to address latest original results in advanced intelligent control of automation systems, including both theoretical advances and practical implementations.
Organizer	
Co-organizers/ Patrons	
Topics	mechatronics and robotics, FMS artificial intelligence, automation and control systems
Date	**19-21.07.2020**
Costs	$550
www	http://www.icrom.org/

Nr024/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

International Conference on Robotics and Vision

Description	This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business and research relations, to find global partners for future collaboration. The conference allows to present the latest research and results of scientists related to Robotics and Vision.
Goal	To share and discuss the latest research and results in the field of robotics and vision.
Organizer	University of Oxford, UK
Co-organizers/ Patrons	Science and Engineering Institute, USA, co-sponsored by Concordia University, Canada, University of Regina, Canada, University of Electronic Science and Technology of China
Topics	robotics, vision
Date	10-12.07.2020
Costs	$580
www	https://icrv.org

Nr025/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

International Conference on Intelligent Robotic and Control Engineering

Description	This event will provide a unique opportunity to have fruitful discussions about Intelligent Robotics, Automations and Control Engineering, and best practices that address Artificial Intelligence. The IRCE conference aims to foster interdisciplinary and international collaboration opportunities, and strengthen domestic and international recognition in pure and applied research for the participants. IRCE will provide a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Intelligent robotics and control engineering.
Goal	To discuss the most recent innovations in the fields of Intelligent robotics and control engineering.
Organizer	University of Oxford, UK
Co-organizers/ Patrons	Science and Engineering Institute
Topics	Intelligent Robotics, Automations & Control Engineering, Artificial Intelligence
Date	10-12.07.2020
Costs	$580
www	http://irce.org/

Nr026/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

International Symposium on Robotics

Description	In two conference tracks and a poster session over two days, the ISR 2020 will offer an insight into the latest state-of-the-art robot technologies to participants from both industry and research. Sessions will be held on relevant topics such as Modeling, Planning and Control, as well as Components and Technologies. Developments from the area of Robotics in Production and Industrial Robots will also be addressed, as well as Service and Mobile Robotics, sessions on Robotics in New Markets & Applications, as well as Human-robot-collaboration / Future of Work.
Goal	To enhance and explore the latest trends & future aspects of current technology on Humanoid robotics.
Organizer	Mechanical Engineering Industry Association (VDMA)
Co-organizers/ Patrons	Information Technology Society (ITG)
Topics	Robotics in Production, Industrial Robots, Service and Mobile Robotics, Robotics in New Markets & Applications, Human-robot-collaboration
Date	**17-18.06.2020**
Costs	820,00 €
www	isr-robotics.org

Nr027/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

Autonomous Mobile Robots

Description	The main emphasis of the training is put on mobile robot locomotion and kinematics, environment perception, probabilistic map based localization and mapping, and motion planning. The lectures and exercises of this course introduce several types of robots such as wheeled robots, legged robots and drones.
Goal	The objective of this course is to provide the basic concepts and algorithms required to develop mobile robots that act autonomously in complex environments
Organizer	edX, ETHZurich
Prerequisites	Good basic mathematics, physics, system modeling and control
Duration	**4-8 weeks**
Exams	no
Prize	free
No of ECTS credits	
E-learning	Yes
Job opportunities	Control engineer
www	https://www.edx.org/course/autonomous-mobile-robots

Nr 028/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

Data Ethics, AI and Responsible Innovation

Description	Completing this course helps understand the challenges we are facing in AI development, and inspire to design, criticise, and develop better intelligent systems to shape our future.
Goal	• Understand and articulate the critical, social, legal, political and ethical issues arising throughout the data lifecycle. • Understand relevant concepts, including: ethics/morality, responsibility, digital rights, data governance, human-data interaction, responsible research and innovation. • Identify and assess current ethical issues in data science and industry. • Apply professional critical judgement and reflexivity to moral problems with no clear solutions. • Evaluate ethical issues you face in your current professional practice. • Identify and apply ethically driven solutions to those issues.
Organizer	edX, The University of Edinburgh
Prerequisites	General IT literacy and secondary school maths.
Duration	**5 weeks**
Exams	no
Prize	free
No of ECTS credits	
E-learning	Yes
Job opportunities	programmer
www	https://www.edx.org/course/Data-Ethics-AI-and-Responsible-Innovation

Nr 029/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, **autonomous systems**, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : **command, control**, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

Space Mission Design and Operations

Description	This course builds on university level physics and mechanics to introduce and illustrate orbital dynamics as is applied in the design of space missions. Simple tools will be provided to allow planning of missions on orbit around Earth or in the Solar System. The course focuses on conceptual understanding of space mechanics, maneuvers, propulsion and control systems used in all spacecraft.
Goal	Obtaining the knowledge of the challenges related to the use of the space environment as a platform for scientific and utilitarian purposes.
Organizer	edX, EPFL
Prerequisites	Bachelor level courses in physics, vector analysis, and calculus.
Duration	**8 weeks**
Exams	no
Prize	free
No of ECTS credits	
E-learning	Yes
Job opportunities	programmer
www	https://www.edx.org/course/space-mission-design-and-operations

Nr 030/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

FRONTIERS IN NEUROROBOTICS

Description	Frontiers in Neurorobotics publishes peer-reviewed research in the science and technology of embodied autonomous neural systems.
Goal / Target audience	Disseminating and communicating scientific knowledge and impactful discoveries to researchers, academics and the public worldwide
Publisher	Frontiers Media S.A.
Topics/ Content	Neural systems include brain-inspired algorithms (e.g. connectionist networks), computational models of biological neural networks (e.g. artificial spiking neural nets, large-scale simulations of neural microcircuits) and actual biological systems (e.g. in vivo and in vitro neural nets). The focus of the journal is the embodiment of such neural systems in artificial software and hardware devices, machines, robots or any other form of physical actuation.
ISSN	ISSN: 1662-5218 (Print) ISSN: 1662-5218 (Online)
www	https://www.frontiersin.org/journals/neurorobotics

Nr 031/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

FRONTIERS IN ROBOTICS AND AI

Description	Frontiers in Robotics and AI publishes rigorously peer-reviewed research covering all theory and applications of robotics, technology, and artificial intelligence, from biomedical to space robotics.
Goal / Target audience	Disseminating and communicating scientific knowledge and impactful discoveries to researchers, academics and the public worldwide
Publisher	Frontiers Media S.A.
Topics/ Content	• Biomedical Robotics • Computational Intelligence in Robotics • Ethics in Robotics and Artificial Intelligence • Evolutionary Robotics • Humanoid Robotics • Human-Robot Interaction • Multi-Robot Systems • Robot and Machine Vision • Robotic Control Systems • Sensor Fusion and Machine Perception • Soft Robotics • Space Robotics
ISSN	ISSN: 2296-9144 (Print) ISSN: 2296-9144 (Online)
www	https://www.frontiersin.org/journals/robotics-and-ai

Nr 032/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INDUSTRIAL ROBOT

Description	Industrial Robot publishes peer reviewed research articles, technology reviews and specially commissioned case studies. Each issue includes high quality content covering all aspects of robotic technology, and reflecting the most interesting and strategically important research and development activities from around the world.
Goal / Target audience	Managers and engineers responsible for the design, development and application of robots.
Publisher	Emerald Group Publishing Ltd.
Topics/ Content	• Automatic assembly • Flexible manufacturing • Programming optimisation • Simulation and offline programming • Service robots • Autonomous robots • Swarm intelligence • Humanoid robots • Prosthetics and exoskeletons • Machine intelligence • Military robots • Underwater and aerial robots • Cooperative robots • Flexible grippers and tactile sensing • Robot vision • Teleoperation • Mobile robots • Search and rescue robots • Robot welding • Collision avoidance • Robotic machining • Surgical robots
ISSN	ISSN: 0143-991X
www	https://www.emerald.com/insight/publication/issn/0143-991x

Nr 033/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTELLIGENT SERVICE ROBOTICS

Description	The Journal "Intelligent Service Robotics" fosters the dissemination of new discoveries and novel technologies that advance the application of robotics for assisting humans on a yet richer dimension.
Goal / Target audience	The journal intends to capture and archive this emerging yet significant advancement in the field of intelligent service robotics.
Publisher	Springer Verlag
Topics/ Content	Intelligent robots serving humans in daily life or in a hazardous environment, such as home or personal service robots, entertainment robots, education robots, medical robots, healthcare and rehabilitation robots, and rescue robots (Service Robotics), Intelligent robotic functions in the form of embedded systems for applications to, for example, intelligent space, intelligent vehicles and transportation systems, intelligent manufacturing systems, and intelligent medical facilities (Embedded Robotics), The integration of robotics with network technologies, generating such services and solutions as distributed robots, distance robotic education-aides, and virtual laboratories or museums (Networked Robotics).
ISSN	ISSN: 1861-2776
www	https://www.springer.com/journal/11370

Nr 034/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTELLIGENZA ARTIFICIALE

Description	Intelligenza Artificiale is the official journal of the Italian Association for Artificial Intelligence (AIxIA). Intelligenza Artificiale publishes reviewed articles (in English) in all areas of Artificial Intelligence, with a special attention to original contributions. It will also publish assessments of the state of the art in various areas of AI, and innovative system descriptions with appropriate evaluation.
Goal / Target audience	
Publisher	IOS Press
Topics/ Content	Artificial Intelligence, Computer & Communication Sciences, Computer Science
ISSN	ISSN: 1724-8035 (print) ISSN: 2211-0097 (on-line)
www	https://www.iospress.nl/journal/intelligenza-artificiale/

Nr 035/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, **autonomous systems**, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

AUTONOMOUS ROBOTS

Description	Autonomous Robots reports on the theory and applications of robotic systems capable of some degree of self-sufficiency. It features papers that include performance data on actual robots in the real world. The focus is on the ability to move and be self-sufficient, not on whether the system is an imitation of biology. Of course, biological models for robotic systems are of major interest to the journal since living systems are prototypes for autonomous behavior.
Goal / Target audience	The Journal reports on the theory and applications of robotic systems capable of some degree of self-sufficiency and features papers that include performance data on actual robots in the real world.
Publisher	Springer
Topics/ Content	control of autonomous robots, real-time vision, autonomous wheeled and tracked vehicles, legged vehicles , computational architectures for autonomous systems ,distributed architectures for learning, control and adaptation, studies of autonomous robot systems, sensor fusion, theory of autonomous systems, terrain mapping and recognition, self-calibration and self-repair for robots, self-reproducing intelligent structures, genetic algorithms as models for robot development
ISSN	ISSN print: 0929-5593 ISSN online: 1573-7527
www	https://www.springer.com/journal/10514

Nr 036/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF CONTROL, AUTOMATION AND SYSTEMS

Description	The Journal provides a forum for original research results on theory, design, experiments, and applications in all technical areas of control, automation, and systems. The journal covers three strongly related research areas including control, automation, and systems. This type of coverage is unique and it is the only journal covering these three areas combined in the world.
Goal / Target audience	Presents research in three closely related areas: control, automation and systems. Primarily focused on research in control and automation
Publisher	Springer
Topics/ Content	Control Theory, Control Applications, Robotics and Automation, Intelligent and Information Systems
ISSN	ISSN print: 1598-6446 ISSN online: 2005-4092
www	https://www.springer.com/journal/12555

Nr 037/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

CONTROL THEORY AND TECHNOLOGY

Description	*Control Theory and Technology* is an international peer-reviewed journal, which provides a forum for the control scientists and engineers to exchange related knowledge and experience. It publishes high-quality papers on the theory and applications of control, with particular attention given to the emerging topics, original methods, and cutting-edge technologies in the area of systems and control. The Journal reflects contemporary research and development in control and automation with rapid publication and special issues. Its content appeals to scientific and technical professionals as well as professors and students in the field.
Goal / Target audience	Original, theoretical and experimental research and development in the area of systems and control
Publisher	Springer
Topics/ Content	control, automation
ISSN	ISSN print: 2095-6983 ISSN online: 2198-0942
www	https://www.springer.com/journal/11768

Nr 038/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

CONSTRUCTION ROBOTICS

Description	This journal addresses the emerging application of robotics in the domain of construction and demolition, linking robotics researchers with those in architecture and civil engineering. Coverage includes robotic automation at all stages of work from pre-fabrication of large scale components, through job-site assembly and inspection, to refurbishment and demolition. Articles will explore research and applications of robotic assembly, prefabrication and disassembly in construction settings; robotic site mapping and real-time vision; material handling systems; social, environmental and legislative implications of construction robotics; and more.
Goal / Target audience	The journal aims to become the central publication platform for the rapidly expanding construction robotics community, and a prominent forum for related research work of architects and civil engineers. Presents research and applications in the integration of robotics into construction processes. Covers prefabrication and disassembly; robotic site mapping; material handling; social, environmental and legislative implications of construction robotics. Offers a forum for the rapidly expanding realm of construction robotics and related research in architecture and civil engineering.
Publisher	Springer
Topics/ Content	Robotics, integration of robotics into construction processes
ISSN	ISSN print: 2509-811X ISSN online: 2509-8780
www	https://www.springer.com/journal/41693

Nr 039/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS

Description	The journal publishes original, peer reviewed articles and contributions on innovative ideas and concepts, new discoveries and improvements, as well as novel applications, by leading researchers and developers regarding the latest fundamental advances in the core technologies that form the backbone of social robotics, distinguished developmental projects in the area, as well as seminal works in aesthetic design, ethics and philosophy, studies on social impact and influence, pertaining to social robotics. The journal aims to provide an overview of the current state of the social robotics scene, how the field and related technologies are set to evolve in the future, and their impact on society at large. It also provides researchers in diverse fields - from engineering, to the social sciences - and developers in the area a consolidated volume which details the latest developments and acts as an international forum for all issues within the editorial focus.
Goal / Target audience	Provides an overview of the current state of the social robotics field, Highlights innovative ideas and concepts, new discoveries and improvements, as well as novel applications in the core technologies of social robotics
Publisher	Springer
Topics/ Content	Robotics, Biomechatronics, neuro-robotics, biomedical robotics, Compliance, Human-robot interaction, robot-robot interaction, Roboethics , Intelligent control and artificial intelligence for social robotics
ISSN	ISSN print: 1875-4791 ISSN online: 1875-4805
www	https://www.springer.com/journal/12369

Nr 040/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF DYNAMICS AND CONTROL

Description	The Journal publishes original research and review articles reporting on theoretical, numerical and experimental works that advance the knowledge of linear and nonlinear dynamic systems and their control. Topics include modeling, analysis, solution techniques, control strategies, and experimental investigation of mechanical, civil, electrical, electronic, coupled electro-mechanical, and biological systems with complex dynamic characteristics.
Goal / Target audience	Covers all aspects of dynamics and control including new theoretical developments, novel computational algorithms, new experimental techniques, and emerging applications. Presents a balanced mix of authoritative and comprehensive reviews, original articles on the state of the art research and brief communications. Offers rigorous review and rapid publication of articles
Publisher	Springer
Topics/ Content	Dynamics and control
ISSN	ISSN print: 2195-268X ISSN online: 2195-2698
www	https://www.springer.com/journal/40435

Nr 041/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

JOURNAL OF BIOSYSTEMS ENGINEERING

Description	*Journal of Biosystems Engineering* offers to publish original research articles, review articles and technical notes, quarterly and integrates general engineering with applied agricultural, biological, environmental, food, and livestock systems to solve problems in complex living systems.
Goal / Target audience	The journal aims to selectively publish highly notable original articles to advance and disseminate scientific and technical knowledge in the field of biosystems engineering.
Publisher	Springer
Topics/ Content	precision agriculture, instrumentation, control, farming robotics, smart farming, micro- and nano-agriculture, artificial intelligence, analysis and applications of big data in the field of biosystems engineering
ISSN	ISSN print: 1738-1266 ISSN online: 2234-1862
www	https://www.springer.com/journal/42853

Nr 042/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, **autonomous systems**, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ARTIFICIAL LIFE AND ROBOTICS

Description	The international journal publishes original technical papers and authoritative state-of-the-art reviews on the development of new technologies concerning artificial life and robotics, especially computer-based simulation and hardware.
Goal / Target audience	Presents the development of new technologies concerning artificial life and robotics, especially computer-based simulation and hardware. Publishes technical papers and authoritative state-of-the-art reviews and covers a broad multidisciplinary field.
Publisher	Springer
Topics/ Content	artificial brain research, artificial intelligence, artificial life, artificial living, artificial mind research, brain science, chaos, cognitive science, complexity, computer graphics, evolutionary computations, fuzzy control, genetic algorithms, innovative computations, intelligent control and modeling, micromachines, micro-robot world cup soccer tournament, mobile vehicles, neural networks, neurocomputers, neurocomputing technologies and applications, robotics, robust virtual engineering, virtual reality
ISSN	ISSN print: 1433-5298 ISSN online: 1614-7456
www	https://www.springer.com/journal/10015

Nr 043/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

THE JOURNAL OF MICRO-BIO ROBOTICS

Description	The Journal of Micro-Bio Robotics is the synergistic integration of micro- and biotechnologies with Robotics. Strong research efforts are being focussed on development of micro/nanoscale or miniature robotic systems, which are biologically inspired, integrated with biological entities, or used for biological or biomedical applications. This new journal aims to report the significant progress in these new research efforts.
Goal / Target audience	The Journal of Micro-Bio Robotics, a quarterly journal, is devoted to the theory, experiments, and applications of micro- and biotechnologies and robotics. The Journal promotes both theoretical and practical engineering research based on the analysis and synthesis from the micro level to the bio level of robotics. The journal includes survey papers, technical papers, and short papers in the field of Micro and Bio Robotics.
Publisher	Springer
Topics/ Content	biotechnology, robotics
ISSN	ISSN print: 2194-6418 ISSN online: 2194-6426
www	https://www.springer.com/journal/12213

Nr 044/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, **autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, **communications**, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF INTELLIGENT ROBOTICS AND APPLICATIONS

Description	The International Journal of Intelligent Robotics and Applications (IJIRA) fosters the dissemination of new discoveries and novel technologies that advance developments in robotics and their broad applications. This journal provides a publication and communication platform for all robotics topics, from the theoretical fundamentals and technological advances to various applications including manufacturing, space vehicles, biomedical systems and automobiles, data-storage devices, healthcare systems, home appliances, and intelligent highways.
Goal / Target audience	IJIRA welcomes contributions from researchers, professionals and industrial practitioners. It publishes original, high-quality and previously unpublished research papers, brief reports, and critical reviews. Integrates theories and technologies from computer science, mechanical engineering, electrical and electronic engineering. Devotes special attention to the novel and emerging applications of robotics
Publisher	Springer
Topics/ Content	advanced actuators, sensors and other hardware implementations; design, modeling, prototyping and other manufacturing topics; artificial intelligence and machine learning; robotic vision, linguistics and recognition; planning, navigation and localization; communication and control; human and robot interaction; collective and social robots; mobile robots and intelligent autonomous systems
ISSN	ISSN print: 2366-5971 ISSN online: 2366-598X
www	https://www.springer.com/journal/41315

Nr 045/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ROBOMECH JOURNAL

Description	*ROBOMECH Journal* focuses on advanced technologies and practical applications in the field of Robotics and Mechatronics. This field is driven by the steadily growing research, development and consumer demand for robots and systems. Advanced robots have been working in medical and hazardous environments, such as space and the deep sea as well as in the manufacturing environment.
Goal / Target audience	The scope of *ROBOMECH Journal* encompasses all practical aspects of the theory and methods of Robotics and Mechatronics.
Publisher	Springer
Topics/ Content	Robotics, mechatronics, artificial intelligence
ISSN	ISSN print: ISSN online: 2197-4225
www	https://robomechjournal.springeropen.com/about

Nr 046/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	Robotics, **autonomous systems**, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF AUTOMATION AND COMPUTING

Description	The International Journal of Automation and Computing (IJAC) is an international peer-reviewed journal, which publishes papers on original theoretical and experimental research and development in automation and computing. Research papers feature a strong focus on new trends, theoretical and experimental research and development, emerging technology, and industrial standards.
Goal / Target audience	Publish high quality special issues and articles rapidly with a strong focus on new trends in automation and computing. Topics encompass automatic control, novel computation, biologically inspired robotics, and related interdisciplinary research and application
Publisher	Springer
Topics/ Content	Artificial intelligence, automatic control, bioinformatics, computer science, information technology, modeling and simulation, networks and communications, optimization and decision-making, pattern recognition, robotics, signal processing, and systems engineering
ISSN	ISSN print: 1476-8186 ISSN online: 1751-8520
www	https://www.springer.com/journal/11633

Nr 047/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

SWARM INTELLIGENCE

Description	Swarm Intelligence is the principal peer reviewed publication dedicated to reporting research and new developments in this multidisciplinary field. The journal publishes original research articles and occasional reviews on theoretical, experimental, and practical aspects of swarm intelligence. It offers readers reports on advances in the understanding and utilization of systems that are based on the principles of swarm intelligence. Emphasis is given to such topics as the modeling and analysis of collective biological systems; application of biological swarm intelligence models to real-world problems; and theoretical and empirical research in ant colony optimization, particle swarm optimization, swarm robotics, and other swarm intelligence algorithms.
Goal / Target audience	Publishes original research articles and reviews on theoretical, experimental, and practical aspects of swarm intelligence. Offers reports on advances in the understanding and utilization of systems based on the principles of swarm intelligence. Features articles combining experimental and theoretical work
Publisher	Springer
Topics/ Content	swarm robotics, swarm intelligence algorithms
ISSN	ISSN print: 1935-3812 ISSN online:
www	https://www.springer.com/journal/11721

Nr 048/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

EVOLUTIONARY INTELLIGENCE

Description	Evolutionary Intelligence is the place to discover advances in the field of evolutionary intelligence. The journal is devoted to the timely publication and dissemination of both the theoretical and practical aspects of population-based searches for artificial intelligence. Among the techniques covered are rule-based systems, artificial neural networks, fuzzy systems, Bayesian and statistical approaches, artificial immune systems, and hybrid systems combining evolutionary computation with other artificial intelligence techniques. A partial list of topics includes memory, vision, planning, knowledge representation and construction, robotics, neuroscience, language, development and learning, and cognitive science. Readers will also find papers describing applications in such areas as data mining, adaptive control, medical and bioinformatics, games and multi-media, agent-based computing and modeling, complex systems, and chemical and biological systems.
Goal / Target audience	Captures and archives advances in the field of evolutionary intelligence. Explores both the theoretical and practical aspects of population-based searches for artificial intelligence. Covers such techniques as rule-based systems, artificial neural networks, fuzzy systems, Bayesian and statistical approaches, artificial immune systems, etc.
Publisher	Springer
Topics/ Content	Robotics, neuroscience, language, development and learning, and cognitive science; adaptive control, medical and bioinformatics, agent-based computing and modeling, complex systems.
ISSN	ISSN print: 1864-5909 ISSN online: 1864-5917
www	https://www.springer.com/journal/12065

Nr 049/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, **autonomous systems**, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

AUTONOMOUS AGENTS AND MULTI-AGENT SYSTEMS

Description	This is the official journal of the International Foundation for Autonomous Agents and Multi-Agent Systems. It provides a leading forum for disseminating significant original research results in the foundations, theory, development, analysis, and applications of autonomous agents and multi-agent systems.
Goal / Target audience	Coverage in Autonomous Agents and Multi-Agent Systems
Publisher	Springer
Topics/ Content	Robotics, autonomous agents and multi-agent systems
ISSN	ISSN print: 1387-2532 ISSN online: 1573-7454
www	https://www.springer.com/journal/10458

Nr 050/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems,** artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ROBOTICS AND AUTONOMOUS SYSTEMS

Description	Robotics and Autonomous Systems will carry articles describing fundamental developments in the field of robotics, with special emphasis on autonomous systems. Robotics and Autonomous Systems will carry articles on the theoretical, computational and experimental aspects of autonomous systems, or modules of such systems.
Goal / Target audience	An important goal of this journal is to extend the state of the art in both symbolic and sensory based robot control and learning in the context of autonomous systems.
Publisher	Elsevier
Topics/ Content	Robot control, autonomous systems
ISSN	ISSN print: 0921-8890 ISSN online:
www	https://www.journals.elsevier.com/robotics-and-autonomous-systems

Nr 051/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING

Description	The emphasis of the journal *Robotics and Computer-Integrated Manufacturing* is on disseminating the application of research to the development of new or improved industrially-relevant robotics, manufacturing technologies, and innovative manufacturing strategies. Preference is given to papers describing original research that includes both theory and experimental validation. Comprehensive review papers on topical issues related to robotics and manufacturing will also be considered.
Goal / Target audience	Application of research to the development of new or improved industrially-relevant robotics, manufacturing technologies, and innovative manufacturing strategies.
Publisher	Elsevier
Topics/ Content	industrial robotics, human-robot collaborative manufacturing, cloud-based manufacturing, cyber-physical production systems, big data analytics in manufacturing, smart mechatronics, machine learning, adaptive and sustainable manufacturing,
ISSN	ISSN print: 0736-5845 ISSN online:
www	https://www.journals.elsevier.com/robotics-and-computer-integrated-manufacturing

Nr 052/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

BIOSYSTEMS

Description	BioSystems encourages experimental, computational, and theoretical articles that link biology, evolutionary thinking, and information processing sciences. The link areas form a circle that encompasses the fundamental nature of biological information processing, computational modeling of complex biological systems, evolutionary models of computation, the application of biological principles to the design of novel computing systems, and the use of biomolecular materials to synthesize artificial systems that capture essential principles of natural biological information processing.
Goal / Target audience	To present research that links biology, evolutionary thinking, and information processing sciences.
Publisher	Elsevier
Topics/ Content	Molecular Evolution, Biological Information Processing, Evolutionary Systems Applications (neural nets, machine learning, robotics)
ISSN	ISSN print: 0303-2647 ISSN online:
www	https://www.journals.elsevier.com/biosystems

Nr 053/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, **autonomous systems**, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

JOURNAL OF PROCESS CONTROL

Description	This international journal covers the application of control theory, operations research, computer science and engineering principles to the solution of process control problems. In addition to the traditional chemical processing and manufacturing applications, the scope of process control problems involves a wide range of applications that includes energy processes, nano-technology, systems biology, bio-medical engineering, pharmaceutical processing technology, energy storage and conversion, smart grid, and data analytics among others.
Goal / Target audience	To present application of control theory, operations research, computer science and engineering principles to the solution of process control problems
Publisher	Elsavier
Topics/ Content	Control applications, Process monitoring, Plant-wide control, Process control systems, Control techniques and algorithms, Process modelling and simulation, Design methods
ISSN	ISSN print: 0959-1524 ISSN online:
www	https://www.journals.elsevier.com/journal-of-process-control

Nr 054/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems,** artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR : command, control, communications, computers, information/intelligence, surveillance**
	Policy	**Journal**	Cybersecurity

Title:

AEROSPACE SCIENCE AND TECHNOLOGY

Description	*Aerospace Science and Technology* publishes articles of outstanding scientific quality. The journal welcomes papers from a wide range of countries. This journal publishes original papers, review articles and short communications related to all fields of **aerospace research**, fundamental and applied, potential applications of which are clearly related to: • The design and the manufacture of **aircraft**, **helicopters**, **missiles**, **launchers** and **satellites** • The control of their **environment** • The study of various **systems** they are involved in, as supports or as targets.
Goal / Target audience	To present **aerospace research**, fundamental and applied, potential applications.
Publisher	Elsevier
Topics/ Content	Energetics and propulsion, Navigation, guidance and control, Robotics and intelligent systems
ISSN	ISSN print: 1270-9638 ISSN online:
www	https://www.journals.elsevier.com/aerospace-science-and-technology

Nr 055/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

COMPUTERS AND ELECTRONICS IN AGRICULTURE

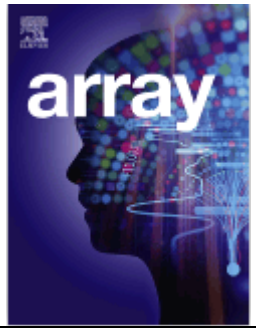
Description	*Computers and Electronics in Agriculture* provides international coverage of advances in the development and application of **computer** hardware, software, **electronic instrumentation**, and **control systems** for solving problems in **agriculture**, including agronomy, horticulture (in both its food and amenity aspects), forestry, aquaculture, and animal/livestock farming.
Goal / Target audience	Agriculture scientists
Publisher	Elsevier
Topics/ Content	computer hardware, software, electronic instrumentation, and control systems for solving problems in agriculture
ISSN	ISSN print: 0168-1699 ISSN online:
www	https://www.journals.elsevier.com/computers-and-electronics-in-agriculture

Nr 056/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	**Cybersecurity**

Title:

ARRAY

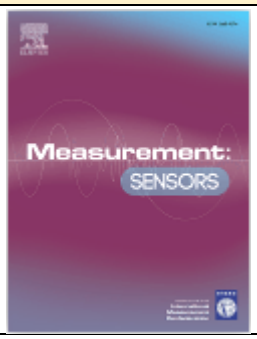
Description	*Array* is an international open access multidisciplinary journal encompassing a broad spectrum of topics in computer science. 
Goal / Target audience	
Publisher	Elsavier
Topics/ Content	Artificial Intelligence, Machine Learning and Robotics, Computer Systems and Architecture, Computer Vision, Speech and Pattern Recognition, Control & Signal Processing, Cyber Security, Data, Knowledge and Intelligent Systems, Industrial Engineering, Interdisciplinary Applications, Medical Informatics and Biomedical Engineering, Microelectronics and Hardware, Multimedia and HCI, Networks and Communications, Operational Research an, Decision Systems, Scientific Computing, Software Engineering, Theoretical Computer Science
ISSN	ISSN print: 2590-0056 ISSN online:
www	https://www.journals.elsevier.com/array

Nr 057/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, control, **communications**, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

MEASUREMENT: SENSORS

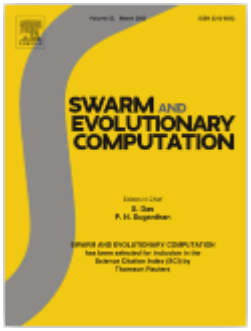
Description	*Measurement: Sensors* is an open access, multi-disciplinary journal open to original, high- quality contributions from all relevant fields of this highly topical subject. *Measurement: Sensors* is a companion journal to *Measurement: Journal of the International Measurement Confederation (IMEKO)*. 
Goal / Target audience	Submissions are invited on all aspects of the research, development and application of the science, engineering and technology of sensors and sensor systems.
Publisher	Elsevier
Topics/ Content	process industries, automotive, avionics, communication networks, energy systems, transportation networks, embedded systems, biomedical and other sciences, manufacturing and robotics
ISSN	ISSN print: 2665-9174 ISSN online:
www	https://www.journals.elsevier.com/measurement-sensors

Nr 058/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, **autonomous systems**, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

SWARM AND EVOLUTIONARY COMPUTATION

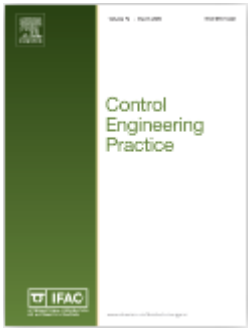
Description	*Swarm and Evolutionary Computation* is the first peer-reviewed publication of its kind that aims at reporting the most recent research and developments in the area of **nature-inspired intelligent computation** based on the principles of **swarm** and **evolutionary** algorithms. It publishes advanced, innovative and interdisciplinary research involving the theoretical, experimental and practical aspects of the two paradigms and their hybridizations. 
Goal / Target audience	*Swarm and Evolutionary Computation* is committed to timely publication of very high-quality, peer-reviewed, original articles that advance the state-of-the art of all aspects of evolutionary computation and swarm intelligence.
Publisher	Elsevier
Topics/ Content	Genetic Algorithms, and Genetic Programming, Evolution Strategies, and Evolutionary Programming, Differential Evolution, Artificial Immune Systems, Particle Swarms, Ant Colony, Bacterial Foraging, Artificial Bees, Fireflies Algorithm, Harmony Search, Artificial Life, Digital Organisms, Estimation of Distribution Algorithms, Stochastic Diffusion Search, Quantum Computing, Nano Computing, Membrane Computing, Human-centric Computing, Hybridization of Algorithms, Memetic Computing, Autonomic Computing, Self-organizing systems, Combinatorial, Discrete, Binary, Constrained, Multi-objective, Multi-modal, Dynamic, and Large-scale Optimization
ISSN	ISSN print: 2210-6502 ISSN online:
www	https://www.journals.elsevier.com/swarm-and-evolutionary-computation

Nr 059/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, **autonomous systems**, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR** : command, **control**, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

CONTROL ENGINEERING PRACTICE

Description	*Control Engineering Practice* strives to meet the needs of industrial practitioners and industrially related academics and researchers. It publishes papers which illustrate the direct application of **control theory** and its supporting tools in all possible areas of **automation**. As a result, the journal only contains papers which can be considered to have made significant contributions to the application of advanced **control techniques**. 
Goal / Target audience	To present papers demonstrating the contribution of automation and control in **improving** the **performance**, **quality**, **productivity**, **sustainability**, **resource and energy efficiency**, and the **manageability** of systems and processes for the benefit of mankind and are relevant to **industrial practitioners** are most welcome.
Publisher	Elsevier
Topics/ Content	Automotive Systems, Aerospace Applications, Marine Systems, Intelligent Transportation Systems and Traffic Control, Autonomous Vehicles, Robotics, Human Machine Systems , Mechatronic Systems, Scientific Instrumentation, Micro- and Nanosystems, Fluid Power Systems, Gas Turbines and Fluid Machinery , Machine Tools, Manufacturing Technology and Production Engineering, Logistics, Power Electronics, Electrical Drives, Internet of Things, Communication Systems, Power and Energy Systems, Biomedical Engineering and Medical Applications, Biosystems and Bioprocesses, Biotechnology, Chemical Engineering , Pulp and Paper Processing, Mining, Mineral and Metal Processing, Water/Gas/Oil Reticulation Systems Environmental Engineering, Agricultural Systems, Food Engineering , Other Emerging Control Applications
ISSN	ISSN print: 0967-0661 ISSN online:
www	https://www.journals.elsevier.com/control-engineering-practice

Nr 060/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

ARTIFICIAL INTELLIGENCE

Description	The journal of *Artificial Intelligence (AIJ)* welcomes papers on broad aspects of AI that constitute advances in the overall field.
Goal / Target audience	The journal reports results achieved in addition to proposals for new ways of looking at AI problems, both of which must include demonstrations of value and effectiveness.
Publisher	Elsevier
Topics/ Content	cognition and AI, automated reasoning and inference, case-based reasoning, commonsense reasoning, computer vision, constraint processing, ethical AI, heuristic search, human interfaces, intelligent robotics, knowledge representation, machine learning, multi-agent systems, natural language processing, planning and action, and reasoning under uncertainty.
ISSN	ISSN print: 0004-3702 ISSN online:
www	https://www.journals.elsevier.com/artificial-intelligence

Nr 061/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

JOURNAL OF AUTOMATION, MOBILE ROBOTICS AND INTELLIGENT SYSTEMS

Description	An international scientific journal, published in English. It has been published quarterly, continuingly since 2007. It publishes scientific articles on robotics, automation, intelligent systems and related fields. Scientists from 6 continents sit on the scientific council. All submitted papers are reviewed by at least two independent reviewers in the so-called peer-review mode. The journal is indexed in many domestic and foreign databases, incl. Scopus, Erih +, DOAJ, PBN, Index Copernicus and others.
Goal / Target audience	Among the goals set by the JAMRIS Editorial Board is to create a forum for the exchange of knowledge for scientists from around the world. The journal has an international reach, but it also promotes the achievements of Polish science. The magazine contributes to the participation of national teams in international projects, including EU and NATO projects.
Publisher	Industrial Research Institute for Automation and Measurements
Topics/ Content	• Fundamentals of automation and robotics • Applied automatics • Mobile robots control • Distributed systems • Navigation • Mechatronics systems in robotics • Sensors and actuators • Data transmission • Biomechatronics • Mobile computing
ISSN	2080-2145, 1897-8649
www	http://www.jamris.org/

Nr 062/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

JOURNAL EUROPÉEN DES SYSTÈMES AUTOMATISÉS

Description	International journal bringing the state-of-the-art research results on automated systems. The focus fields of the journal include the diagnosis, learning, control, and optimization of hybrid systems, discrete event systems, human-machine systems, and many other areas related to automated systems. The journal is indexed in many databases, incl. Scopus, SCImago (SJR), Ei Compendex, MIAR, EBSCOhost, Publons, ScienceOpen, Google Scholar, CrossRef, Portico, Microsoft Academic, CNKI Scholar, Baidu Scholar.
Goal / Target audience	The journal welcomes papers from around the world that present innovative results, whether at the theoretical, methodological or application level. Articles describing the implementation of new methods or tools in the industrial applications are particularly encouraged.
Publisher	Lavoisier
Topics/ Content	• System diagnosis • System analysis • System learning • System control • System estimation • System identification • System modelling • System optimization • Operational research • Robotics • Remote handling • Discrete event systems • Hybrid systems • Human-machine systems • Visioning
ISSN	1269-6935 (print); 2116-7087 (online)
www	http://www.iieta.org/Journals/JESA

Nr 063/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF VEHICLE AUTONOMOUS SYSTEMS

Description	IJVAS is an established international authoritative reference in the field of vehicle autonomous systems research and development. IJVAS is indexed in: Scopus (Elsevier), Compendex [formerly Ei] (Elsevier), Business Source Premier (EBSCO), cnpLINKer (CNPIEC), Ergonomics Abstracts - Ergo-Abs, Google Scholar, Inspec (Institution of Engineering and Technology), J-Gate, Pascal (INIST-CNRS), ProQuest, Advanced Technologies Database with Aerospace, TRID [Transportation Research Information Services + ITRD] (Transportation Research Board)
Goal / Target audience	The IJVAS provides an international forum and referred reference in the field of vehicle autonomous systems research and development.
Publisher	Inderscience Enterprises Ltd.
Topics/ Content	• Active safety and driver-assistance systems • Vehicle and chassis dynamics and controls • Vehicle electronics, electrification and mechatronics • Vehicular wireless communications and networks • Object sensing and detection; sensor fusion • Intelligent vehicle and transport systems • Vehicle navigation, motion and trajectory planning • Multi-vehicle coordination and vehicle platooning
ISSN	1471-0226 (print), 1741-5306 (online)
www	https://www.inderscience.com/jhome.php?jcode=ijvas&csid=nag0i8jpbkmstpl9aai9b1acv3

Nr 064/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

INTERNATIONAL JOURNAL OF MECHATRONICS AND AUTOMATION

Description	International journal that presents state-of-the-art research in the area of mechatronics and industrial automation. IJMA is indexed in: Scopus (Elsevier), Academic OneFile (Gale), cnpLINKer (CNPIEC), DBLP Computer Science Bibliography, Google Scholar, Info Trac (Gale), J-Gate.
Goal / Target audience	The main objective of IJMA is to establish an excellent channel of communication between experts in academic and research institutions, practitioners and professionals working in the industry, and policy makers. IJMA provides a forum for information exchange between professionals, academicians and engineers who are working in the area of mechatronics, control engineering, and industrial automation, helping them to disseminate information and to learn from each other's work.
Publisher	Inderscience Publishers
Topics/ Content	• Intelligent mechatronics, robotics and biomimetics • Novel and unconventional mechatronic systems and robots • Modelling and control of mechatronics systems and robots • Elements, structures, mechanisms of micro and nano systems • Sensors, wireless sensor networks and multi-sensor data fusion • Biomedical and rehabilitation engineering, prosthetics and artificial organs • AI, neural networks and fuzzy logic in mechatronics and robotics • Industrial automation, process control and networked control systems • Telerobotics, human computer interaction, human-robot interaction
ISSN	2045-1059 (print), 2045-1067 (online)
www	https://www.inderscience.com/jhome.php?jcode=ijma

Nr 065/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title: **ROBOTICA**	
Description	Coverage includes activities in hostile environments, applications in the service and manufacturing industries, biological robotics, dynamics and kinematics involved in robot design and uses, on-line robots, robot task planning, rehabilitation robotics, sensory perception, software in the widest sense, particularly in respect of programming languages and links with CAD/CAM systems, telerobotics and various other areas. In addition, interest is focused on various Artificial Intelligence topics of theoretical and practical interest. Emphasis is placed on sound theory and realistic applications of robotics and AI in the general field of automation. The journal uses a single-blind model of peer review.
Goal / Target audience	Robotica is a forum for the multidisciplinary subject of robotics and encourages developments, applications and research in this important field of automation and robotics with regard to industry, health, education and economic and social aspects of relevance.
Publisher	Cambridge University Press
Topics/ Content	• Robotics applications in the service and manufacturing industries • Biological robotics • Dynamics and kinematics involved in robot design and uses • On-line robots • Robot task planning • Rehabilitation robotics • Sensory perception • Software • Telerobotics
ISSN	0263-5747 (print), 1469-8668 (online)
www	https://www.cambridge.org/core/journals/robotica

Nr 066/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

GEOGRAPHIC INFORMATION SYSTEMS (GIS) SPECIALIZATION

Description	This Specialization, offered in partnership with ArcGIS developer Esri, teaches the skills needed to successfully use GIS software in a professional setting. The course teaches how to analyze spatial data, use cartography techniques to communicate the results in maps, and collaborate with peers in GIS and GIS-dependent fields. In the final Capstone Project, a student will create a professional-quality GIS portfolio piece using a combination of data identification and collection, analytical map development, and spatial analysis techniques.
Goal	Learners will work through the various course projects to gain experience and skills related to geographic information systems. Each course reviews the concepts in a final project to reinforce the learning process.
Organizer	Coursea/UC Davis University of California
Prerequisites	no
Duration	**up to 6 months**
Exams	no
Prize	Depends on the pricing program.
No of ECTS credits	
E-learning	Yes
Job opportunities	data analyst, data engineer
www	https://www.coursera.org/specializations/gis

Nr 067/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

GIS CERTIFICATION COURSE : GEOGRAPHIC INFORMATION SYSTEMS

Description	This course delivers essential knowledge on Photogrammetry and GIS. GIS helps users solve complex man made issues by creating and managing information about specific locations. Geospatial technology evaluates information in terms of location and renders outcomes through high-quality maps that improve the value of the data or information.
Goal	After successful completion of this course, students will be able to: I. Use their skills for MicroStation as Mapping software for Photogrammetry II. Use their skills for PRO600-PROCart as a Photogrammetry software. III. Compile planimetric features & DTM using 3D environment in LPS IV. Construct Contours, Shaded Surfaces & TIN using TerraModel in Photogrammetry V. Demonstrate work flow followed in Photogrammetry projects
Organizer	Udemy/NIBT E-Learning India
Prerequisites	• Must be capable of using Computer Systems. • Must have Basic knowledge of the AEC Industry, its tools & technology.
Duration	**7 hours**
Exams	no
Prize	Depends on the pricing program.
No of ECTS credits	
E-learning	Yes
Job opportunities	data analyst, data engineer
www	https://www.udemy.com/course/geographic-information-systems/

Nr 068/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

PYTHON FOR GEOGRAPHIC INFORMATION SYSTEM (GIS) TRAINING COURSE

Description	This program covers the usage of Python and its advanced libraries like geopandas, pysal, bokeh and osmnx to implement your own GIS features. The program also covers introductory modules around ArcGIS API, and QGIS toolbox.
Goal	An implementation of own GIS features using Python language.
Organizer	Nobleprog
Prerequisites	A prior experience with Python for Machine Learning and with libraries like pandas, matplotlib is highly recommended.
Duration	**3-6 days/ 21 hours**
Exams	no
Prize	Depends on the country/ 2240 PLN in Poland
No of ECTS credits	
E-learning	Yes
Job opportunities	data analyst, data engineer
www	https://www.nobleprog.pl/en/cc/pygis?participants=1&how=public#isl-domain-switch

Nr 069/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

QGIS FOR GEOGRAPHIC INFORMATION SYSTEM TRAINING COURSE

Description	This program, in its first phase, introduces the QGIS interface for general usage. In the second phase, introduces PyQGIS - the python libraries of QGIS that allows the integration of GIS functionalities in own python code or own python application, so that it allows even create own Python Plugin around a particular GIS functionality.
Goal	An implementation of own GIS features using Python languag using QGIS functions.
Organizer	Nobleprog
Prerequisites	A prior experience with Python and the libraries like pandas, matplotlib is highly recommended along with a knowldege around visualization tools and API usage.
Duration	**3-6 days/ 21 hours**
Exams	no
Prize	Depends on the country/ 2240 PLN in Poland
No of ECTS credits	
E-learning	Yes
Job opportunities	data analyst, data engineer
www	https://www.nobleprog.pl/en/cc/pygis?participants=1&how=public#isl-domain-switch

Nr 070/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

3D Printing Technology and Innovations

Description	5th International Conference on 3D Printing Technology and Innovations, will be organized around the theme "Exploring New Technologies and Innovations in 3D Printing" 3D Printing 2020 consists of keynote and speaker sessions on the latest cutting edge research designed to offer comprehensive global discussions that address current issues in 3D Printing 2020.
Goal	Exploring New Technologies and innovations in 3D Printing
Organizer	
Co-organizers/ Patrons	
Topics	3D printers, Structures and Materials
Date	22-23 April, 2020 Berlin, Germany
Costs	
www	https://3dprinting.insightconferences.com/scientific-program

Nr 071/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ROBOVIS 2020

Description	Robotics is a field that is closely connected to Computer Vision and Intelligent Systems. Research and development of robots require technologies originating from the other two areas; the research work in Computer Vision has often been driven by needs in Robotics; Intelligent Systems models and software have often been developed aiming at applications in the areas of physical agents, i.e. robots, or in areas related to scene understanding, video and image processing, and many other aspects of computer vision. There is a need for a venue where these three research communities, often isolated, meet and discuss innovation possibilities driven by the intersection of these highly synergetic fields.
Goal	The purpose of ROBOVIS 2020, the International Conference on Robotics, Computer Vision and Intelligent Systems, is to bring together researchers, engineers and practitioners that are interested to share their research and experience on the thematic areas of this conference.
Organizer	
Co-organizers/ Patrons	SCITEPRESS Digital Library, Springer
Topics	Robotics, Computer Vision, Intelligent Systems, Internet of Things, Machine Learning, Deep Learning, Knowledge-Based Systems
Date	4-6 November 2020
Costs	
www	http://www.robovis.org/CallForPapers.aspx#A1

Nr 072/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

Current Robotics Reports

Description	An Editorial Board of more than 20 internationally diverse members reviews the annual table of contents, ensures that topics include emerging research, and suggests topics of special importance to their country/region. Section Editors select topics for which leading experts contribute comprehensive review articles that emphasize new developments and recently published papers of major importance, highlighted by annotated reference lists.
Goal / Target audience	Current Robotics Reports aims to offer expert review articles on the most significant recent developments in the field of robotics. By providing clear, insightful, balanced contributions, the journal intends to serve all those who use robotic technologies in medicine, defense, service, and agriculture.
Publisher	Springer
Topics/ Content	Diagnostic medical robotics; orthopedic robotics and exoskeletons; rehabilitation and assistive robotics; surgical robotics; nanorobotics and microrobotics; robotics in manufacturing; space robotics; defense, military and surveillance robotics; service and interactive robotics; group robotics; agriculture robotics.
ISSN	2662-4087
www	https://www.springer.com/journal/43154/

Nr 073/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

Journal of Robotics and Mechatronics

Description	The JRM is a peer-reviewed journal in fields such as robotics, mechatronics, automation, and system integration. Its editorial board includes well-established researchers and engineers in the field from around the world over.
Goal / Target audience	The scope of the journal includes any and all topics on robotics and mechatronics. Indexed in: ESCI, Scopus, Compendex (Ei), Scirus, Ulrichsweb™ Global Serials Directory, Genamics JournalSeek, Open J-Gate, J-Global.
Publisher	JRM Editorial Office, Fuji Technology Press Ltd.
Topics/ Content	Sensor design, motion control, sensor fusion, sensor networks, robot vision, audition, mechanism design, robot kinematics and dynamics, mobile robot, path planning, navigation, SLAM, robot hand, human-robot interaction, human interface, networked robotics, telerobotic, ubiquitous robot.
ISSN	0915-3942(Print) / 1883-8049(Online)
www	https://www.fujipress.jp/jrm/rb/

Nr 074/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	Cybersecurity

Title:

International Journal of Intelligent Mechatronics and Robotics (IJIMR)

Description	The International Journal of Intelligent Mechatronics and Robotics (IJIMR) publishes original and innovative research and practical developments in the field of mechatronics and robotics. The journal covers a wide range of application areas, such as robotic-assisted manufacturing; advanced mechanisms and robotics; systems modelling and analysis; instrumentation and device control; automation systems; intelligent sensing and control; medical robotics; and autonomous and complex systems.
Goal / Target audience	The primary objective of the International Journal of Intelligent Mechatronics and Robotics (IJIMR) is to foster the synergistic integration of diverse disciplines, such as mechanical engineering, electrical engineering, manufacturing engineering, computer and software engineering, and artificial and computational intelligence, which form the necessary components of modern intelligent mechatronics, robotics, and automation systems. The International Journal of Intelligent Mechatronics and Robotics (IJIMR) bridges the gap between theory and practice and serves to stimulate interaction between researchers, engineers, and practitioners from academia, industry, and government. /
Publisher	IGI Global Publisher
Topics/ Content	• Advanced instrumentation and control methodologies • Advanced manufacturing methodologies • Artificial intelligence and signal processing • Automation and automated manufacturing • Autonomous systems, distributed intelligence systems and multi-robot systems • Biologically inspired robotics and swarms • Control systems modelling and analysis • Image processing and pattern recognition in control systems • Intelligent microprocessor-based control • Intelligent navigation for autonomous systems • Intelligent sensing and measurement • Medical robotics and robotics for rehabilitation • Micro/nano manipulators and systems • Robotic-assisted surgery and surgery simulation • Robotics and mechanisms • Sensor design, sensor-fusion and sensor-based control • Teleoperation and telerobotics • Virtual reality and haptics for robotics and mechatronic systems
ISSN	2156-1664
www	https://www.igi-global.com/journal/international-journal-intelligent-mechatronics-robotics/41877#table-of-contents

Nr 075/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

International Conference on Frontiers of Signal Processing

Description	ICFSP is an annual event in France which provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.
Goal	The purpose of ICFSP is providing a good opportunity by admiring your updated research knowledge to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration. Indexed by Ei Compendex, Scopus, and others.
Organizer	
Co-organizers/ Patrons	Sponsored by IEEE France Section, IEEE Signal Processing Society; co-sponsored by Institut Supérieur d'Electronique de Paris, Aix Marseille University, and other universities
Topics	Adaptive Filtering & Signal Processing Ad-Hoc and Sensor Networks Analog and Mixed Signal Processing Applications of Signal Processing Cryptography and Network Security Design and Implementation of Signal Processing Systems Industry Technology Internet Signal Processing Machine Learning for Signal Processing Modulation and Channel Coding Multimedia & Human-computer Interaction Rapid Prototyping and Tools for DSP Design RF and Wireless Communications Sensor Array and Multi-channel Processing Video compression & Streaming Watermarking and Information Hiding
Date	**9-11 September 2021**
Costs	
www	http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=101053

Nr 076/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTRODUCTION TO FPGA DESIGN FOR EMBEDDED SYSTEMS

Description	This course gives the foundation for FPGA design in Embedded Systems along with practical design skills. It teaches what an FPGA is and how this technology was developed, how to select the best FPGA architecture for a given application, how to use state of the art software tools for FPGA development, and solve critical digital design problems using FPGAs. The student uses FPGA development tools to complete several example designs, including a custom processor.
Goal	To teach design basics of FPGA based embedded systems
Organizer	Coursera
Prerequisites	An access to computer resources to run the development tools is needed, a PC running either Windows 7, 8, or 10 or a recent Linux OS which must be RHEL 6.5 or CentOS Linux 6.5 or later. Either Linux OS could be run as a virtual machine under Windows 8 or 10. The tools do not run on Apple Mac computers. Whatever the OS, the computer must have at least 8 GB of RAM. Most new laptops will have this, or it may be possible to upgrade the memory.
Duration	**4 weeks/ 18 work hours**
Exams	no
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	Embedded electronics engineer
www	https://www.coursera.org/learn/intro-fpga-design-embedded-systems

Nr 077/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

LEARN THE FUNDAMENTALS OF VHDL AND FPGA DEVELOPMENT

Description	In this course the student will be working through various projects that will require going through the entire FPGA development process. Students will be guided through the coding of the actual VHDL to the synthesis using either Xilinx's development tool, Vivado or Altera development tool Quartus. There are 8 projects in this course: ● Buttons & LEDs ● Blinky LEDs ● LED Brightness ● UART Demonstration ● UART I/O ● AD Processing ● SPI Interface (Arty A7 Only) ● I2C Interface (DE10 Nano Only)
Goal	Understand the design process for implementing a digital design onto a FPGA
Organizer	Udemy
Prerequisites	● Basic understanding of Binary Notation ● Basic understanding of Hexadecimal Notation ● Basic understanding of Logic Gates ● Basic understanding of Vivado / Quartus
Duration	**17,5 work hours**
Exams	no
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	FPGA programmer
www	https://www.udemy.com/course/learn-the-essentials-of-vhdl-and-fpga-development/

Nr 078/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

LEARN VHDL AND FPGA DEVELOPMENT

Description	This course contains over 20 lectures that will teach students the syntax and structure of VHDL. The student will be able to understand the syntax and use of specific VHDL keywords by taking this course. There are lectures included in each lab to give a background on the digital logic circuit the student will be implementing. This course contains 7 labs that are designed so that the student will learn how to develop VHDL code. For each lab I will give the student a set of VHDL files that they will have to modify or change in order to get the project to simulate correctly in ModelSim and so they can implement the design on their FPGA board. These labs are designed to help the students learn VHDL by actually coding it themselves.
Goal	Understand the design process for implementing a digital design onto a FPGA
Organizer	Udemy
Prerequisites	• Purchase a BASYS 3 or BASYS 2 FPGA Development Board • Download Xilinx ISE webpack and Vivado • Basic understanding of Binary Notation • Basic understanding of Hexadecimal Notation • Basic understanding of Logic Gates
Duration	**4,5 work hours**
Exams	no
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	FPGA programmer
www	https://www.udemy.com/course/vhdl-and-fpga-development-for-beginners-and-intermediates/

Nr 079/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DESIGNING FPGAS USING THE VIVADO DESIGN SUITE

Description	This content offers introductory training on the Vivado® Design Suite and demonstrates the FPGA design flow for those uninitiated to FPGA design. The first part of the course provides experience with creating a Vivado Design Suite project with source files, simulating a design, performing pin assignments, applying basic timing constraints, synthesizing and implementing, debugging a design. Second part covers using synchronous design techniques, utilizing the Vivado® IPintegrator to create a sub-system, employing proper HDL coding techniques to improve design performance, debugging a design with multiple clock domains. The last third part of the course covers demonstrating timing closure techniques such as baselining, pipelining, and synchronization circuits, showing optimum HDL coding techniques that help with design timing closure and illustrating the advanced capabilities of the Vivado® logic analyzer to debug a design.
Goal	Designing FPGAs Using the Vivado Design Suite (Xilinx software)
Organizer	Xilinx
Prerequisites	Basic knowledge of the VHDL or Verilog language, Digital design knowledge, Zynq® UltraScale+™ MPSoC ZCU104 board
Duration	**6 days**
Exams	no
Prize	600 $
No of ECTS credits	
E-learning	Yes
Job opportunities	FPGA programmer
www	https://xilinxprod-catalog.netexam.com/Certification/44165/designing-fpgas-using-the-vivado-design-suite-1 https://xilinxprod-catalog.netexam.com/Certification/40583/designing-fpgas-using-the-vivado-design-suite-2 https://xilinxprod-catalog.netexam.com/Certification/40470/designing-fpgas-using-the-vivado-design-suite-3

Nr 080/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DESIGNING WITH VHDL

Description	This course provides a thorough introduction to the VHDL language. The emphasis is on writing efficient hardware designs, performing high-level HDL simulations, employing structural, register transfer level (RTL), and behavioral coding styles, targeting Xilinx devices specifically and FPGA devices in general and utilizing best coding practices
Goal	To learn Implementation the VHDL portion of coding for synthesis and simulation of a basic VHDL design.
Organizer	Xilinx
Prerequisites	Basic digital design knowledge
Duration	**3 days**
Exams	no
Prize	300 $
No of ECTS credits	
E-learning	Yes
Job opportunities	FPGA programmer
www	https://xilinxprod-catalog.netexam.com/Certification/40551/designing-with-vhdl

Nr 081/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DESIGNING WITH VERILOG

Description	This course provides a thorough introduction to the Verilog language. The emphasis is on: • Writing efficient hardware designs • Performing high-level HDL simulations • Employing structural, register transfer level (RTL), and behavioral coding styles Targeting Xilinx devices specifically and FPGA devices in general • Utilizing best coding practices This course covers Verilog 1995 and 2001.
Goal	To learn writing RTL Verilog code for synthesis and test fixtures for simulation
Organizer	Xilinx
Prerequisites	Basic digital design knowledge
Duration	**3 days**
Exams	no
Prize	300 $
No of ECTS credits	
E-learning	Yes
Job opportunities	FPGA programmer
www	https://xilinxprod-catalog.netexam.com/Certification/35916/designing-with-verilog

Nr 082/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTRODUCTION TO VHDL (IHDL110)

Description	This one-day class is a general introduction to the VHDL language and its use in programmable logic design, covering constructs used in both the simulation and synthesis environments. By the end of this course, the student will have a basic understanding of VHDL so that the student can begin creating own designs, using both behavioral and structural approaches. In the hands-on laboratory sessions, get to practice the knowledge gained by writing simple but practical designs. The student will check own designs by compiling in the Intel® Quartus® Prime software and simulating in the ModelSim* for Intel® FPGA Edition software.
Goal	• Implement basic VHDL constructs • Use VHDL design units: entity, architecture, configuration and package • Create behavioral and structural models in VHDL
Organizer	Intel
Prerequisites	• Background in digital logic design • Knowledge of simulation is a plus • Prior knowledge of a programming language (e.g., "C" language) is helpful, but not required • No prior knowledge of VHDL or the Intel Quartus Prime software is needed
Duration	**8 hours**
Exams	no
Prize	640 $
No of ECTS credits	
E-learning	Yes, Instructor-Led / Virtual Class Course
Job opportunities	FPGA programmer
www	https://www.intel.com/content/www/us/en/programmable/support/training/course/ihdl110.html

Nr 083/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTRODUCTION TO VERILOG HDL (IHDL120)

Description	This class is a general introduction to the Verilog language and its use in programmable logic design, covering the basic constructs used in both the simulation and synthesis environments. By the end of this course, the student will have a basic understanding of the Verilog module, data types, operators and assignment statements needed to begin creating your own designs, using both behavioral and structural approaches. In the hands-on laboratory sessions, the student will get to practice the knowledge you have gained by writing simple but practical designs, check your designs by compiling in the Intel® Quartus® Prime software and simulating in the ModelSim* for Intel® FPGA Edition Software.
Goal	• Create a basic Verilog module • Understand the difference between simulation and synthesis environments • Understand Verilog data types and operators and their uses • Model hardware and test using behavioral modeling constructs • Model hardware and test using structural modeling constructs
Organizer	Intel
Prerequisites	• Background in digital logic design • Knowledge of simulation is a plus • Prior knowledge of a programming language (e.g., "C" language) is a plus • No prior knowledge of Verilog HDL or the Intel Quartus Prime software is needed
Duration	**8 hours**
Exams	no
Prize	640 $
No of ECTS credits	
E-learning	Yes, Instructor-Led / Virtual Class Course
Job opportunities	FPGA programmer
www	https://www.intel.com/content/www/us/en/programmable/support/training/course/ihdl120.html

Nr 084/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ADVANCED VHDL DESIGN TECHNIQUES (IHDL240)

Description	The student will learn & practice efficient coding techniques for writing synthesizable VHDL for Intel® FPGAs and CPLDs. While the course focuses on the Intel Quartus® Prime software, many concepts can be used with other synthesis tools. The student will gain experience in behavioral and structural coding while learning how to effectively write common logic functions including registers, memory, and arithmetic functions. The course will show how to parameterize Verilog design, increasing flexibility and reusability. The student will be introduced to testbenches and the constructs used when building them. The exercises will use the Intel Quartus Prime software for synthesis & ModelSim* for Intel FPGA Edition Software for simulation.
Goal	• Develop coding styles for efficient synthesis when: • Targeting device features • Inferring logic functions • Using arithmetic operators • Writing state machines
Organizer	Intel
Prerequisites	• Completion of the "Introduction to VHDL" course or some prior knowledge and use of VHDL • Background in digital logic design • Understanding of synthesis and simulation processes
Duration	**8 hours**
Exams	no
Prize	640 $
No of ECTS credits	
E-learning	Yes, Instructor-Led / Virtual Class Course
Job opportunities	FPGA programmer
www	https://www.intel.com/content/www/us/en/programmable/support/training/course/ihdl240.html

Nr 085/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

THE QUARTUS SOFTWARE DEBUG TOOLS (IDSW135)

Description	As FPGA designs become more complex, a larger part of development time is spent verifying designs. This course introduces the various debug tools included in the Quartus® Prime software v. 16.1 & shows effective ways to debug an FPGA design, decreasing overall design development time. The class discusses various debugging tools: the SignalTap® II embedded logic analyzer (ELA), SignalProbe, In-System Sources & Probes, the Logic Analyzer Interface, System Console, Chip Planner and others. The focus is on the SignalTap II ELA, including hands-on lab exercises utilizing the tools on real designs.
Goal	● Debug designs in-system using the SignalTap II embedded logic analyzer ● Quickly route internal nodes to unused I/O pins without performing a full recompilation using SignalProbe incremental routing ● View & edit embedded memory contents using In-System Memory Content Editor ● View compilation results & make incremental design changes with Chip Planner ● Connect internal debug nodes to an external analyzer using Logic Analyzer Interface ● Debug a Qsys system using System Console
Organizer	Intel
Prerequisites	Completion of "The Quartus Software Design Series: Foundation" course OR a working knowledge of the Quartus software
Duration	**8 hours**
Exams	no
Prize	640 $
No of ECTS credits	
E-learning	Yes, Instructor-Led / Virtual Class Course
Job opportunities	FPGA programmer
www	https://www.intel.com/content/www/us/en/programmable/support/training/course/idsw135.html

Nr 086/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTRODUCTION TO HIGH-LEVEL SYNTHESIS WITH INTEL® FPGAS (IHLS2DAYPART1)

Description	In the class, the student will learn how to use the Intel® HLS Compiler to synthesize, optimize, and verify design components for Intel FPGAs. We will first discuss the benefits of HLS, after which we will talk about features of the Intel HLS Compiler. The student will learn how to use the compiler options, the generated reports, and the final generated files to integrate the IP within an Intel Quartus® Prime software project. Lastly the course will teach how to effectively optimize your IP using the generated reports.
Goal	● Use the Intel HLS Compiler to synthesize a component compatible with the Intel Quartus Prime software IP flow ● View reports to debug & optimize the component ● Co-simulate the component using an RTL simulator with a software testbench ● Integrate the HLS-generated component within an FPGA design ● Understand the various interfaces available & select the optimal one for various component types ● Effectively use various data types & math support features ● Understand how loops are pipelined
Organizer	Intel
Prerequisites	● Basic understanding of the C programming language ● Basic understanding of FPGAs and the Intel Quartus Prime Design Software
Duration	**8 hours**
Exams	no
Prize	640 $
No of ECTS credits	
E-learning	Yes, Instructor-Led / Virtual Class Course
Job opportunities	FPGA programmer
www	https://www.intel.com/content/www/us/en/programmable/support/training/course/ihls2daypart1.html

Nr 087/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

DESIGNING WITH DSP BUILDER FOR INTEL® FPGAS (IDSP220)

Description	Learn the timing-driven Simulink design flow for implementing high-speed DSP designs. This course is focused on the hands-on development of highly-optimized DSP algorithms using the advanced blockset capability of the latest DSP Builder—an interface between the Intel® Quartus® Prime software and Mathworks MATLAB & Simulink tools. The student will analyze and design your DSP algorithm using the DSP Builder for Intel FPGAs MATLAB and Simulink. The course will show how to easily explore architecture and performance tradeoffs with system-level constraints and also show how to verify the functionality and the performance of the generated hardware in the Intel Quartus Prime software.
Goal	• Implement DSP algorithms using DSP Builder for Intel FPGAs • Incorporate IP and Primitive cores in a design • Explore design architecture and performance tradeoffs using system-level constraints • Incorporate a DSP Builder model into a Platform Designer system • Verify the hardware performance and implementation in the Intel Quartus Prime software
Organizer	Intel
Prerequisites	• Familiarity with DSP fundamentals and design • Familiarity with Intel® Quartus Prime software is helpful, but not necessary • Familiarity with Mathworks MATLAB and Simulink is helpful, but not necessary • Familiarity with digital modem design is helpful, but not necessary
Duration	**8 hours**
Exams	no
Prize	640 $
No of ECTS credits	
E-learning	Yes, Instructor-Led / Virtual Class Course
Job opportunities	FPGA programmer
www	https://www.intel.com/content/www/us/en/programmable/support/training/course/idsp220.html

Nr 088/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

RADAR: INTRODUCTION TO RADAR SYSTEMS

Description	The set of 10 lectures starts with an introductory description of basic radar concepts and terms. The radar equation needed for the basic understanding of radar is then developed, along with several examples of its use in radar system design. Radar propagation issues such as attenuation, multipath effects, and ducting are described. The concept of radar cross-section, waveform design, antennas, transmitter and receiver characteristics, and the detection of radar signals in the presence of noise are presented. Some radars are required to detect small targets in the presence of much larger radar echoes from sea or land clutter in the radar's coverage. The characteristics of this clutter are discussed with moving target indicator (MTI) and Pulse Doppler techniques for mitigating the negative effects of clutter. The course continues with lectures covering target tracking and target parameter estimation. The last lecture discusses radar transmitters and receivers.
Goal	To provide an understanding of radar systems concepts and technologies to military officers and DoD civilians involved in radar systems development.
Organizer	MIT
Prerequisites	• Mathematics including the topics of algebra, trigonometry, and logarithms. • Basic physics including the topics of electricity and magnetism.
Duration	**11 hours**
Exams	no
Prize	free
No of ECTS credits	
E-learning	Yes
Job opportunities	Technician/ Engineer working on radar systems development
www	https://www.ll.mit.edu/outreach/radar-introduction-radar-systems-online-course

Nr 089/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

MULTI-OBJECT TRACKING FOR AUTOMOTIVE SYSTEMS

Description	The course builds and expands on concepts and ideas introduced in CHM013x: "Sensor fusion and nonlinear filtering for automotive systems". In particular, we study how to localize an unknown number of objects, which implies various interesting challenges. We focus on cameras, laser scanners and radar sensors, which are all commonly used in vehicles, and emphasize on situations where we seek to track nearby pedestrians and vehicles. Still, most of the involved methods are more general and can be used for surveillance or to track, e.g., biological cells, sports athletes or space debris.
Goal	• A thorough understanding of multi-object tracking (MOT) and its challenge • Expert-level understanding of principles, theory and algorithms in modern MOT. • Extensive know-how for solving various MOT problems in practice. • Valuable experience from implementing different MOT algorithms.
Organizer	Edx/ Chalmers University of Technology
Prerequisites	
Duration	**10 Weeks / 10- 20 hours per week**
Exams	no
Prize	free
No of ECTS credits	
E-learning	Yes
Job opportunities	Automotive engineer, embedded software programmer
www	https://www.edx.org/course/multi-object-tracking-for-automotive-systems

Nr 090/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

MULTI-TARGET TRACKING AND MULTI-SENSOR DATA FUSION TRAINING

Description	The objective of Multi-Target Tracking and Multi-Sensor Data Fusion Training is to introduce engineers, scientists, managers, and military operations personnel to the fields of radar tracking, data fusion and to the key technologies which are available today for application to this field. This Multi-Target Tracking & Multi-Sensor Data Fusion course will identify and characterize the principal components of typical tracking systems.
Goal	The course goal is to teach students the following topics: - techniques for angle-only tracking, - tracking algorithm, - how to handle maneuvering targets, - track initiation – recursive and batch approaches, - architectures for sensor fusion
Organizer	Enowireless
Prerequisites	
Duration	Depends on the syllabus
Exams	no
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	Military systems engineer
www	https://www.enowireless.com/training-tutorials-courses/multi-target-tracking-and-multi-sensor-data-fusion-training/

Nr 091/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

Robotics: Vision Intelligence and Machine Learning

Description	Course will be able to present how do robots “see”, respond to and learn from their interactions with the world around them. This is the fascinating field of visual intelligence and machine learning. Visual intelligence allows a robot to “sense” and “recognize” the surrounding environment. It also enables a robot to “learn” from the memory of past experiences by extracting patterns in visual signals.
Goal	Design robot vision systems that avoid collisions, safely work with humans and understand their environment. You will learn: ● The fundamentals of image filtering and tracking, and how to apply those principles to face detection, mosaicking and stabilization ● How to use geometric transformations to determine 3D poses from 2D images for augmented reality tasks and visual odometry for robot localization ● How to recognize objects and the basics of visual learning and neural networks for the purpose of classification.
Organizer	Penn University of Pennsylvania
Prerequisites	● College-level introductory linear algebra (vector spaces, linear systems, matrix decomposition) ● College-level introductory calculus (partial derivatives, function gradients) ● Basic knowledge of computer programming (variables, functions, control flow). The projects will be carried out in MATLAB/Python, with C++ as an option.
Duration	**12 weeks**
Exams	No, possibilities win a Verified Certificate - $349 USD
No of ECTS credits	
E-learning	Yes
Job opportunities	software engineer, robot programming engineer
www	https://www.edx.org/course/robotics-vision-intelligence-and-machine-learning

Nr 092/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers,** **information/intelligence, surveillance**
	Policy	Journal	Cybersecurity

Title:

2020 INTERNATIONAL WORKSHOP ON (SUB)MMW COMPONENTS, MEASUREMENT AND APPLICATIONS

Description	The conference will start with descriptions of fundamental components, including radiation and detection. It will continue with applications including imaging and biomedical sensing. Finally, antenna measurements, on-chip measurements and modeling will be discussed.
Goal	The aim of the conference is to discuss the topics related to millimeter and THz technologies.
Organizer	China Ordnance Society, Beijing Institute of Technology, Shenyang Institute of Automation of Chinese Academy of Sciences, Nanjing University of Science and Technology
Co-organizers/ Patrons	
Topics	1. Fundamental components, including photonic and electronic source & detector 2. Applications of millimeter and THz technologies in imaging and biomedical sensing 3. Antenna measurement and on-chip measurements & modeling.
Date	10th Aug. 2020 14:00-17:20 Beijing Time 11th Aug. 2020 14:00-17:20 Beijing Time
Costs	￥ 2200.00
www	https://www.bagevent.com/event/IWTHzCMA/p/420456

Nr 093/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

SCIENCE AND RESEARCH METHODOLOGY IN IT

Description	The aim of this course is to give students knowledge and practical skills in research methodology of relevance for the field of IT.
Goal	After this course students will have an understanding of the philosophy of science, be able to design a research study, and be equipped with a set of (mainly qualitative) methods.
Organizer	UNIVERSITY OF GOTHENBURG
Prerequisites	To enter the course students should have knowledge and skills equivalent to 60 credits in Applied Information Technology on advanced level. The course is given in English and the student should have sufficient knowledge in spoken and written English.
Duration	Depends on the syllabus
Exams	Yes
Prize	35 750 SEK
No of ECTS credits	
E-learning	No
Job opportunities	
www	https://utbildning.gu.se/education/courses-and-programmes/course_detail?courseid=TIA044

Nr 094/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

SCIENTIFIC METHODS AND RESEARCH

Description	This course will teach students to conduct research in accordance with scientific methodology. Students will learn to analyze scientific articles in engineering and science subjects, and how to conduct scientific experiments. The course will help to develop the core skill of a scientist, giving the research tools to succeed.
Goal	• Understand the fundamental problems of science • Ability to analyze scientific articles • How to properly conduct scientific research and experiments
Organizer	Ural Federal University/ edX
Prerequisites	The course material is well-suited for anyone interested in the problems of uncovering knowledge and science
Duration	5 weeks, 3-4 hours a day
Exams	No
Prize	Free
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.edx.org/course/scientific-methods-and-research

Nr 095/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

PROFESSIONAL CERTIFICATE IN RISK MANAGEMENT

Description	In this program, students will learn about the major types of risk, risk management tools and techniques and financial regulations. Instructors will work through the annual risk report of a publicly traded financial institution and analyze a number of case studies to illustrate key principles of risk measurement and management.
Goal	Students will learn to: • Compute standard risk measures for portfolios comprising of a variety of asset classes. • Be aware of the strengths and weaknesses of the various approaches to risk measurement. • Understand the central role of asset liability management in the overall risk management of financial institutions. • Understand the implications of recent risk events for risk management and prudential regulation. • Understand the issues surrounding current risk regulation. • Be familiar with current regulatory stress testing regimes for financial institutions.
Organizer	New York Institute of Finance / edX
Prerequisites	
Duration	5 months, 1-2 hours per week
Exams	No
Prize	**$1,895**
No of ECTS credits	
E-learning	Yes
Job opportunities	Risk manager
www	https://www.edx.org/professional-certificate/nyif-risk-management

Nr 096/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

IEC 61511: FUNCTIONAL SAFETY ANALYSIS, DESIGN, AND OPERATION

Description	Also known as FSE 100, this course provides an overview of process industry safety engineering from the point of view of the Risk Analyst, Process Safety Coordinator, and Control Systems Design Engineer. It delivers a complete overview of the functional safety lifecycle. The course reviews Process Hazard Analysis (PHA), Consequence Analysis, Layer of Protection Analysis (LOPA), Safety Integrity Level (SIL) Target Selection, Safety Requirements Specification (SRS) generation, failure rates, device and system reliability, SIF verification, SIF detailed design and Operations requirements.
Goal	This course forms a broad review in preparation for the Certified Functional Safety Expert (CFSE) and Certified Functional Safety Professional (CFSP) process industry application engineering exams.
Organizer	exida
Prerequisites	
Duration	4 days
Exams	Optional
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	No
Job opportunities	Safety Engineer
www	https://www.exida.com/Training/Course/IEC-61511-Functional-Safety-Analysis-Design-and-Operation

Nr 097/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

FUNCTIONAL SAFETY OF ELECTRICAL SYSTEMS, MACHINERY PARTS AND CONTROL SYSTEMS, AND ELECTRICAL CONTROL SYSTEMS

Description	Functional Safety is the part of the overall safety of a system or piece of equipment that depends on the system or equipment operating correctly in response to its inputs, including the safe management of likely operator errors, hardware and software failures and environmental changes. It is an additional step beyond the traditional product safety assessment and tackles our ever increasingly complex world of interoperating technologies and the hazards they cause.
Goal	To introduce students to norms: **IEC 61508-x:** Functional safety of electrical/electronic/programmable electronic safety related systems **ISO 13849-1:** Safety of machinery — Safety-related parts of control systems **IEC 62061:** Safety of machinery: Functional safety of electrical, electronic and programmable electronic
Organizer	TÜV SÜD America's Academy
Prerequisites	
Duration	5 days
Exams	Yes
Prize	**$3,300**
No of ECTS credits	
E-learning	No
Job opportunities	Safety Engineer
www	https://www.tuvsud.com/en-us/services/training/classroom-courses/functional-safety-training-electrical

Nr 098/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ALGORITHMS, PART I AND II

Description	This course covers the essential information that every serious programmer needs to know about algorithms and data structures, with emphasis on applications and scientific performance analysis of Java implementations. Part I covers elementary data structures, sorting, and searching algorithms. Part II focuses on graph- and string-processing algorithms.
Goal	To teach students basics of algorithms in programming
Organizer	Princeton University/ Coursera
Prerequisites	
Duration	111 hours
Exams	No
Prize	Free
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.coursera.org/learn/algorithms-part1, https://www.coursera.org/learn/algorithms-part2

Nr 099/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ALGORITHMS SPECIALIZATION

Description	This specialization is an introduction to algorithms for learners with at least a little programming experience. The specialization is rigorous but emphasizes the big picture and conceptual understanding over low-level implementation and mathematical details.
Goal	After completing this specialization, students will be well-positioned to ace their technical interviews and speak fluently about algorithms with other programmers and computer scientists.
Organizer	Stanford University/ Coursera
Prerequisites	Basics in computer science
Duration	4 months/ 3 hours per week
Exams	No
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.coursera.org/specializations/algorithms

Nr 100/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTRODUCTION TO CLOUD COMPUTING

Description	This course introduces students to the core concepts of cloud computing. Students gain the foundational knowledge required for understanding cloud computing from a business perspective as also for becoming a cloud practitioner. They will understand the definition and essential characteristics of cloud computing, its history, the business case for cloud computing, and emerging technology use cases enabled by cloud. We introduce students to some of the prominent service providers of our times (e.g. AWS, Google, IBM, Microsoft, etc.) the services they offer, and look at some case studies of cloud computing across industry verticals.
Goal	Students will learn about the various cloud service models (IaaS, PaaS, SaaS) and deployment models (Public, Private, Hybrid) and the key components of a cloud infrastructure (VMs, Networking, Storage - File, Block, Object, CDN). The course also covers emergent cloud trends and practices including - Hybrid Multicloud, Microservices, Serverless, DevOps, Cloud Native and Application Modernization.
Organizer	IBM/ Coursera
Prerequisites	Basics in computer science
Duration	10 hours
Exams	No
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.coursera.org/learn/introduction-to-cloud

Nr 101/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

CLOUD COMPUTING / COMPTIA CLOUD+ CERT. (CV0-002)

Description	The course teaches the basics of Cloud Computing and prepares for the CompTIA Cloud +Certification. Cloud+ is part of the CompTIA Infrastructure Pathway.
Goal	Students will learn to: ● Implement appropriate security controls given requirements. ● Analyze system requirements to successfully execute workload migrations to the cloud. ● Determine proper allocation of cloud resources and apply necessary changes, based on performance data. ● Troubleshoot capacity, automation, connectivity and security issues related to cloud implementations. ● Apply appropriate technologies and processes, including automation and orchestration, to ensure desired system performance.
Organizer	Udemy
Prerequisites	It's recommended to have at least 24–36 months of work experience in IT networking, network storage or datacenter administration.
Duration	10,5 hours
Exams	No
Prize	Depends on the pricing policy
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.udemy.com/course/total-cloud-computing-comptia-cloud-cert-cv0-002/

Nr 102/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

CLOUD COMPUTING MANAGEMENT

Description	This course, part of the Cloud Computing MicroMasters program, focuses on commonly encountered management issues with the adoption and implementation of cloud computing. Examples include: Cloud migration, Cloud Requests for Proposals, Cloud Service Level Agreements, and other business process compliance issues.
Goal	Students will learn basics of: • Cloud migration processes and issues • Business processes to implement cloud solutions • Industry standard cloud technologies, standards, and best practices • Cloud vendors managements
Organizer	University System of Maryland/ edX
Prerequisites	.
Duration	8 weeks/ 8-10 hours per week
Exams	No
Prize	Free
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.edx.org/course/cloud-computing-management

Nr 103/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

MICROMASTERS PROGRAM IN CLOUD COMPUTING

Description	This applied, graduate-level program is designed for learners who want to enter or advance their careers in this exciting and well-paying field. IT professionals not already working with cloud technologies will gain a solid foundation while those with some cloud experience will gain a more in-depth understanding of other cloud technologies and other knowledge such as security, policy, and legal and compliance issues.
Goal	Students will learn: • Cloud computing foundations and models • Types of cloud computing technologies (ie: AWS, Azure, IBM) • Methods for managing a cloud computing adoption/migration project • How to design a cloud computing infrastructure or service • Deployment and configuration of cloud computing systems • Insuring cloud security and mitigating risk • SaaS, PaaS and IaaS and other service platforms
Organizer	University System of Maryland/ edX
Prerequisites	.
Duration	8 months/ 8-10 hours per week
Exams	No
Prize	**$1076.40**
No of ECTS credits	
E-learning	Yes
Job opportunities	
www	https://www.edx.org/micromasters/usmx-umgc-cloud-computing

Nr 104/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Master in Cybersecurity

Description	It is a program of a distinctly technical and practical character (clearly different from other Master's programs in information security focused also on organizational, administrative and legal aspects). The curriculum for the Master's in Cybersecurity offers two tracks of elective courses for two different profiles of graduates, although students can also choose to shape their own electives track: Secure Systems Engineer, oriented to the design and development of components and systems where security plays an important role; and Cybersecurity Analyst, to prepare future professionals who can identify attacks and vulnerabilities in their systems.
Organizer	Universidad Carlos III de Madrid (Spain)
Cooperation with	
Duration	**1 year**
Thematic scope	Cyberdefense; Cyberattacks; Forensic analysis
Costs	Ca. €5000
No of ECTS credits	60
E-learning	No
Tools	Network monitoring, system administration, malware analysis, information hiding, data protection, hacking tools.
Job opportunities	Any cybersecurity-related starting position
Additional info	-
www	https://www.uc3m.es/master/cybersecurity

Nr 105/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	**University course** Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Bachelor in Security Engineering

Description	This course is offered to students that will become officers of the Spanish Civil Guard. It covers a plethora of different security-related perspectives, such as operational security, chemical protection, materials and bullet analysis, forensic investigation and cybersecurity. In what comes to cybersecurity, students learn: - How to hide and protect information - Basic notions on computer forensics - Foundations of security protocols and vulnerabilities - Introduction to information security management
University	Universidad Carlos III de Madrid
Cooperation with	Officers Academy of the Spanish Civil Guard University Centre for the Defense
Level	Bachelor
Duration	4 years
Thematic scope	Cybercrimes
Costs	Ca. €1500 per year
No of ECTS credits	240 ECTS
E-learning	No
Job opportunities	Officer of Spanish Civil Guard
Additional info	-
www	https://www.uc3m.es/bachelor-degree/management-public-security

Nr 106/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	**University course** Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Bachelor in Public Security Management

Description	This course is offered to current members of the Spanish Civil Guard lower than ensign (Spanish alferez). It covers a plethora of different security-related perspectives somehow linked with public security, such as operational security, legal issues, crime investigation and cybersecurity. In what comes to cybersecurity, students learn: - Introduction to information security management - Foundations of security protocols and vulnerabilities
University	Universidad Carlos III de Madrid
Cooperation with	Officers Academy of the Spanish Civil Guard
Level	Bachelor
Duration	4 years
Thematic scope	Cybercrimes
Costs	Ca. €1500 per year
No of ECTS credits	240 ECTS
E-learning	No
Job opportunities	Officer of Spanish Civil Guard
Additional info	-
www	https://www.uc3m.es/bachelor-degree/security-engineering

Nr 107/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title: **MOOC: Cybersecurity for beginners: A hands-on approach**	
Description	This computer science Massive Online Open Course (MOOC) presents an introduction to cyber security showing different aspects of this discipline. You will learn what the main existing cyber security threats are and how to protect yourself against them. The course presents a practical approach in which all required material will be provided to allow you to better understand attacks and establish appropriate countermeasures. Taught by instructors with years of experience in the field of computer security, this course will pave the way to the security area of IT-related professions.
Goal	Students will understand the basics on different techniques and notions related to cybersecurity: - Reverse engineering - Monitoring network cyberattacks - Computer forensics - Malware: evolution, types and advanced types (e.g., Advanced Persistent Threats)
Organizer	Universidad Carlos III de Madrid (Spain)
Prerequisites	Basic knowledge of computer networks and operating systems. No prior knowledge of computer security is necessary.
Duration	**6 weeks, self-paced**
Exams	1 per lesson + 1 final
No of ECTS credits	n/a
E-learning	**Yes** / No
Job opportunities	Any cybersecurity-related starting position
www	https://www.edx.org/es/course/cyber-security-basics-a-hands-on-approach

Nr 108/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

USENIX Security Symposium

Description	USENIX Security Symposium brings together researchers, practitioners, system administrators, system programmers, and others interested in the latest advances in the security and privacy of computer systems and networks.
Goal	
Organizer	USENIX
Co-organizers/ Patrons	
Topics	Refereed paper submissions are solicited in all areas relating to systems research in security and privacy, including but not limited to: • System security • Operating systems security • Automated security analysis of hardware designs and implementation • Automated security analysis of source code and binaries • Machine learning in a secure systems context • Program analysis • Embedded systems security • Methods for detection of malicious or counterfeit hardware • Side channels • New cryptographic protocols with real-world applications This topic list is not meant to be exhaustive; USENIX Security is interested in all aspects of computing systems security and privacy.
Date	**Aug 11-13, 2021**
Costs	TBA
www	https://www.usenix.org/conference/usenixsecurity21

Nr 109/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title: **Awareness Campaigns (Spanish Oficina de Seguridad del Internauta)**	
Description	Spanish Oficina de Seguridad del Internauta (OSI) develops a set of awareness campaigns and training materials in Spanish about the main notions of cybersecurity for regular users.
Goal	These awareness campaigns and training materials aim to help citizens into using their devices in a proper and secure way. For this purpose, Internet issues, e-mail threats, network security matters and other related issues are introduced.
Organizer	Oficina de Seguridad del Internauta (Spain)
Prerequisites	No prior knowledge of computer security is necessary.
Duration	**n/a**
Exams	n/a
No of ECTS credits	n/a
E-learning	**Yes** / No
Job opportunities	Any work role in which cybersecurity matters for regular users may be at stake (e.g. admin staff, accountability, lawyers, etc.)
www	https://www.osi.es/en/node/6679

Nr 110/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title: **Training courses (Spanish National Cryptologic Centre)**	
Description	Spanish Centro Criptológico Nacional (CCN) develops a set of courses that are useful both for regular citizens as well as IT departments. As of 2020, the following courses are available. The default language is English except otherwise stated: • Cybersecurity basics (Spanish) • Basic course on Linux fundamentals • National Security Scheme • INES course • CIS security basic course - Security in Windows • Risk Analysis and Management of Information Systems course • Course on the National Security Scheme • CIS Security course
Goal	These courses are relevant for upskilling users in basic and advanced cybersecurity matters. Interestingly, not only technical issues but also organizational ones are covered. Moreover, some courses related to Spanish regulations are also taught.
Organizer	Centro Criptologico Nacional (Spain)
Prerequisites	No prior knowledge of computer security is necessary. Usage of computers and minimal notions on computer networks.
Duration	**Self-paced**
Exams	Final exam
No of ECTS credits	n/a
E-learning	**Yes** / No
Job opportunities	Any work role in which cybersecurity matters for regular users may be at stake (e.g. admin staff, accountability, lawyers, etc.). IT professionals requiring basic notions of cybersecurity (e.g., support staff)
www	https://www.ccn.cni.es/index.php/en/courses-training-ccn/online-courses

Nr 111/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	**University course** Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Cybersecurity higher education database

Description	This is a European database containing 89 cybersecurity courses (as of 2020) offered throughout 19 countries. This is helpful for any European citizen interested in taking a University degree offered in Europe.
University	Several universities. Database provided by the European Cybersecurity Agency (ENISA).
Cooperation with	-
Level	Bachelor, Master, Postgraduate and PhD
Duration	Different
Thematic scope	Cybersecurity
Costs	Different
No of ECTS credits	Different
E-learning	Some of them
Job opportunities	Cybersecurity-related professionals
Additional info	-
www	https://www.enisa.europa.eu/topics/cybersecurity-education/education-map

Nr 112/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title: **Training materials (Spanish Instituto Nacional de Ciberseguridad)**	
Description	Spanish Instituto Nacional de Ciberseguridad (INCIBE) develops a set of awareness campaigns and training materials in Spanish about the main notions of cybersecurity for regular users. Most materials are currently offered in Spanish.
Goal	These awareness campaigns and training materials aim to help citizens and workers into using their devices in a proper and secure way. For this purpose, Internet issues, e-mail threats, network security matters and other related issues are introduced. They also cover organizational issues which are useful for SMEs and larger companies.
Organizer	Instituto Nacional de Ciberseguridad (Spain)
Prerequisites	No prior knowledge of computer security is necessary.
Duration	**n/a**
Exams	n/a
No of ECTS credits	n/a
E-learning	**Yes** / No
Job opportunities	Any work role in which cybersecurity matters for regular users may be at stake (e.g. admin staff, accountability, lawyers, etc.)
www	https://www.incibe.es/protege-tu-empresa/formacion

Nr 113/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

INTERUNIVERSITY MASTER IN INTELLIGENCE ANALYST

Description	The general objective of the Master is to train Intelligence Analysts in the field of Business, Non-Governmental Institutions and the Administration. This general objective is specified in specific training and learning objectives, which allow the student to acquire the knowledge and professional skills necessary to work as an Intelligence Analyst.
Organizer	Universidad Rey Juan Carlos and Universidad Carlos III de Madrid (Spain)
Cooperation with	-
Duration	**1 year**
Thematic scope	Cybersecurity Analyst; Cyberintelligence
Costs	Ca. €5000
No of ECTS credits	63
E-learning	No
Tools	Information analysis, intelligence gathering and analysis.
Job opportunities	Intelligence Analyst
Additional info	Taught in Spanish
www	https://www.urjc.es/component/k2/1350-master-interuniversitario-en-analista-de-inteligencia

Nr 114/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title: **Locked Shields**	
Description	Organised by NATO CCDCoE, it brings international defence professionals and armies in a Capture-The-Flag (CTF) even. Participants may take the defender, attacker or forensic analyst against the remaining teams in a given scenario which is unknown in advance.
Goal	To put in practice techniques, tactics and procedures both for increasing the resilience of a infrastructure and also attacking other targets.
Organizer	NATO Cooperative Cyber Defence Centre of Excellence (CCDCoE)
Prerequisites	Admission/Clearance by the organisation
Duration	**n/a**
Exams	n/a
No of ECTS credits	n/a
E-learning	**Yes** / No
Job opportunities	Any cyberdefender / cyberattacker for armies and defense-related institutions.
www	https://ccdcoe.org/exercises/locked-shields/

Nr 115/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title: **Spanish National Cyberleague**	
Description	Organised by the Spanish Civil Guard, it encourages young students and practitioners to show their skills in both defending and attacking computers and networks. Some of the tests are run in a Capture-The-Flag (CTF) competition. Although the first edition was run in Spanish, it aims to attract international talents.
Goal	To put in practice techniques, tactics and procedures both for increasing the resilience of a infrastructure and also attacking other targets.
Organizer	Spanish Guardia Civil
Prerequisites	Admission/Clearance by the organisation
Duration	**n/a**
Exams	n/a
No of ECTS credits	n/a
E-learning	**Yes** / No
Job opportunities	Any cyberdefender / cyberattacker for armies and defense-related institutions.
www	https://www.nationalcyberleague.es/

Nr 116/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	**Journal**	**Cybersecurity**

Title:

JOURNAL OF CYBERSECURITY EDUCATION, RESEARCH & PRACTICE

Description	A peer-reviewed scholarly online journal dedicated to promoting scholarship among faculty teaching and researching Cybersecurity topics. It seeks to attract high-quality research, perspective, and best practice articles on the understanding, investigation, conduct and instruction of security related topics specially focused to an academic audience.
Goal / Target audience	Researchers in cybersecurity education. Also, trainers and professors from the public and private sectors.
Publisher	Kennesaw state University
Topics/ Content	• Development and delivery of security curriculum • Best practices and innovation in the conduct of information security • Innovation in applied security research • Other topics of interest to an academic audience
ISSN	2472-2707
www	https://digitalcommons.kennesaw.edu/jcerp/

Nr 117/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

CYBERSECURITY IN INFORMATION AND COMMUNICATIONS

Description	This Master's Degree in Cybersecurity Engineering trains the ability to solve advanced level technical problems associated with security in corporate networks, services and information systems. The training addresses the technological and procedural aspects. The Master seeks to address in technical depth all aspects related to Cybersecurity, training for: development of secure software on Windows / Linux platforms and mobile platforms (apps), bastion of the network and ICT systems, implementation of a security management system in a company, conducting security audits including advanced techniques of Ethical Hacking and preparing expert reports on computer forensics in the field of ICTs. The course, taught mostly by experts from companies in the sector, aims to cover the advanced level training needs of future professionals in the Cybersecurity market. The face-to-face classes, Friday from 16:30 to 20:30 and Saturday from 9:30 to 13:30, allow compatibility with working hours.
Organizer	University of Seville
Cooperation with	Telefonica, PwC, ElevenPath, WellnessTech, NTT
Duration	**2 semesters (330 hours)**
Thematic scope	1. Introduction to cryptography and digital identity (5 ECTS): PKI 2. Security in data networks (8 ECTS): TSL, security in (W)LAN , security in IP and routing (firewalls) 3. Security in services and systems (8 ECTS): security in Windows, Linux and AAA 4. Ethical hacking and auditoring (7 ECTS) 5. Cybersecurity management: ISO27000, MAGERIT (8 ECTS) 6. Cybersecurity in IoT, VPN, IDS/IPS and Cyberoperations (6 ECTS) 7. Secure software development (6 ECTS): web, android and ios app 8. Security in cloud computing (4 ECTS) 9. Forensic cybersecurity
Costs	3.789 €
No of ECTS credits	66 ECTS
E-learning	An e-learning platform it is used, but the courses are semi-presential (8 hours a week)
Tools	Hacking tools (security onion and kali Linux)
Job opportunities	Work in information technology security cells
Additional info	The studies are delivered only in Spanish
www	https://departamento.us.es/ingtelematica/ciberseguridad/

Nr 118/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR**: **command, control**, **communications**, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

MILCOM

Description	MILCOM offers senior military and industry leaders along with distinguished researchers the platform to describe the problems and solutions underlying coordinated action in multiple domains.
Goal	MILCOM addresses the technical and operational challenges inherent in defining command and control across all domains (space, cyber, land, sea and air).
Organizer	IEEE ComSoc (www.comsoc.org)
Co-organizers/ Patrons	AFCEA (www.afcea.org)
Topics	TRACK 1 – Waveforms and Signal Processing TRACK 2 – Networking Protocols and Performance TRACK 3 – Cyber Security and Trusted Computin TRACK 4 – System Perspectives TRACK 5 – Big Data and Machine Learning for Tactical Networks
Date	**10 - 12 November 2020 (cancelled), November 12-14, 2019**
Costs	
www	https://www.comsoc.org/conferences-events/military-communications-conference-2020 https://events.afcea.org/MILCOM19/Public/enter.aspx

Nr 119/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

C4ISR Symposium

Description	The symposium will be moving into several new directions. Membership in AFCEA International provides access to an unrivalled forum for public and private sector professionals in the communications, intelligence and information technology arenas to interact and share ideas. To this end, AFCEA holds world-renowned conventions, expositions, conferences, and symposia to keep its members up-to-date on the state of their industry.
Goal	The principle theme, Artificial Intelligence and machine learning will be the subject of a number of new permanent panels covering Command & Control, Communications, Computers and Networks, Cyber, ISR, Space, and Expeditionary Warfare.
Organizer	AFCEA International
Co-organizers/ Patrons	
Topics	Artificial Intelligence, Machine learning, Command & Control, Communications, Computers and Networks, Cyber, ISR, Space, and Expeditionary Warfare
Date	**17-18 November 2020**
Costs	
www	https://sdsymposium.afceachapters.org/

Nr 120/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

European Robotics Week, ERW

Description	The European Robotics Week (ERW) was conceived at the European Robotics Forum (ERF) 2011 by the desire of the European Robotics community to bring robotics research and development closer to the public and to build the future Robotics Society. Since then and every year, the ERW has offered one week of various robotics related activities across Europe for the general public, highlighting the growing importance of robotics in a wide variety of application areas and the growing importance of skills in science, technology, engineering and math (STEM). ERW takes place in many European cities, in various languages to be accessible to general European public.
Goal	ERW aims at inspiring technology education in students of all ages and general public to pursue careers in STEM-related fields.
Organizer	euRobotics Aisbl
Co-organizers/ Patrons	European Robotics community, hosting universities and other organizations
Topics	Robotics, artificial intelligence, autonomous systems, machine learning, STEM
Date	**19-29 November 2020**
Costs	free
www	https://www.eu-robotics.net/robotics_week/index.html

Nr 121/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

FUTURE OF CYBER CONFERENCE 2020 - FUTURE CYBER DEFENSE

Description	Three-day professional event - a set of security panel discussions, workshops, Live Hacking Show and other expert events as the official professional accompanying programme of the international project FUTURE FORCES FORUM (FFF), enabling meeting experts and representatives of the public sector, security and armed forces to discuss key issues in the field of current and future threats and trends in information technology, cybersecurity and defence.
Goal	• Offer a highly professional event with current security topics • Facilitate the meeting of people interested in cyber security • Identify challenges for the academic, government and private sector in the field of security and mutual cooperation • Communicate business opportunities in cyber security and critical information infrastructure protection • Include the event as an ENISA event of the European Cyber Security Month (ECSM)
Organizer	International Platform for Trends & Technologies in Defence & Security
Co-organizers/ Patrons	
Topics	Crisis Management (MoD, MoI, EMS, Security Forces) Cyber Security Cyber Defence / Offence The Way to C2 Systems Federalization (Technology, People, Security) Artificial Intelligence
Date	21 - 22 October 2020, PVA EXPO PRAHA
Costs	20 EUR
www	https://www.future-forces-forum.org/events/default/58_future-of-cyber-fcd?lang=en

Nr 122/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

6th Annual C4ISR Summit

Description	With militaries and critical infrastructure across the GCC combatting asymmetrical threats, the way to achieve and maintain tactical superiority is to enhance C4ISR capabilities. Assets need to be strategically empowered to digitally capture, disseminate and retrieve data to drive joint operations across land, sea, water and space.
Goal	The summit will address key topics pertaining to convergence and operational implications of C4ISR modernisation, keeping up with the velocity of technological developments and lowering ISR costs without affecting actionable intelligence capabilities.
Organizer	C4ISR Summit Middle East
Co-organizers/ Patrons	AIRBUS, eskan, THURAYA, Getac, Freshvale Defence&Seurity
Topics	
Date	24-25 September, 2018
Costs	USD$3,399 + 5% VAT
www	https://www.defenceiq.com/events-c4isr/

Nr 123/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR : command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:
ISR Training – Intelligence, Surveillance, and Reconnaissance Training

Description	ISR Training course (Intelligence, Surveillance, and Reconnaissance) covers concepts and architecture of Intelligence, Surveillance, and Reconnaissance. ISR training also known as C4ISR training, also covers all related enabling architecture, technologies, standards, modeling, analysis, engineering, testing and evaluation. This course is designed for engineers, technical professionals, project managers and analysts. An overview of SysML, DoDAF 2.0 and NAF 3.0 architecture related to Intelligence, Surveillance, and Reconnaissance is discussed.
Goal	• Understand technical issues related to imaging, RF and wireless sensors, communications networks, cyber security, performance, testing, validation, instrumentation, and Systems Engineering (SE) functions. • Explore challenges issues on interoperability, architecture, data fusion, control systems, and testing of systems and systems of systems (SoS). This Training Course covers all aspects of leading-edge complex system-of-systems in the world – including communications satellites, imagery, radar systems, sensors, laser, detection systems, unmanned aerial vehicles and comprehensive information and support systems. The combination of TONEX's ISR knowledge, skills, and experience sets our C4ISR training capabilities apart from the rest.
Organizer	**TONEX- Technology and Management Training Courses and Seminars**
Prerequisites	This Courses is designed for DoD, NATO and other government agencies and is restricted to U.S. citizens, Green-Card holders, and NATO partners.
Duration	**3 days**
Exams	No
No of ECTS credits	
E-learning	**Yes** / No
Job opportunities	
www	https://www.tonex.com/training-courses/isr-training/

Nr 124/2020

Fiche developed in the frame of	**TYPE:**		**AREA:**
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

MESAS 2020 - MODELLING & SIMULATION FOR AUTONOMOUS SYSTEMS CONFERENCE

Description	Inter-domain and multi-disciplinary exchange of knowledge within Modelling & Simulation and Robotics communities of interest. MESAS'20 is a three-day conference organized by the NATO Modelling and Simulation COE within the FUTURE FORCES FORUM. The event gathers fully recognized experts from different domains: Military, Academia and Industry.
Goal	The NATO M&S COE is dedicated to the promotion of M&S in support of operational requirements, training and interoperability. The Centre acts as a catalyst for transformation through the involvement of NATO, governments, academia, industry, operational and training entities, by improving the networking of NATO and nationally owned M&S systems, the cooperation between nations and organisations through the sharing of M&S information and developments and serving as an international source of expertise for transformation in the related domain.
Organizer	NATO Modelling & Simulation Centre of Excellence
Co-organizers/ Patrons	
Topics	● Autonomous Systems Strategy and Concept Development and Implementation in all Domains of Operation ● Advances in AI and its Impact on Future Operations ● The Role of the Robots and Foot Soldier in the Future Operations ● Security, Use of AxS as Lethal Instruments, Safety of Aviation ● Ethical, Psychological, Legal and Operational Aspects, CIMIC ● Cyber Security (in Context of AxS an their Applications) ● Autonomous Tactical Behavior ● Math Modelling and Simulation of AI Tasks ● RT Issue and Reality Gaps in Context of New AI Concepts, M&S of Future Operational Tasks ● Multi-robot Systems/Swarms, Benefits, Threats, and Challenges ● AI/machine-learning of the systems through M&S ● Distributed Control for Multi-robot Systems ● Robust Decision Making via Cooperative Estimation ● Relevant Concepts and Experiments ● Concepts and Visions of Future Warfare and Application ● M&S in Capability Evaluation of Robotic Swarms ● Co-simulation Tools for Multi-domain Analysis ● Effectiveness, Reliability, and Cyber-Security Issues
Date	**21 –23 October 2020**
www	https://www.future-forces-forum.org/events/default/50_mesas-2020?lang=en

Nr 125/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

DIRECTIVE 2013/40/EU

Description	Directive on attacks against information systems and replacing Council Framework Decision 2005/222/JHA
Goal	The objectives of this Directive are to approximate the criminal law of the Member States in the area of attacks against information systems by establishing minimum rules concerning the definition of criminal offences and the relevant sanctions and to improve cooperation between competent authorities, including the police and other specialised law enforcement services of the Member States, as well as the competent specialised Union agencies and bodies, such as Eurojust, Europol and its European Cyber Crime Centre, and the European Network and Information Security Agency (ENISA).
Country	European Union, European Union Member States
Organization	European Parliament
Connected initiatives	Council Framework Decision 2005/222/JHA
Funding	European Union, European Union Member States
www	https://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:218:0008:0014:EN:PDF

Nr 126/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

COUNCIL FRAMEWORK DECISION of 28 May 2001 (2001/413/JHA)

Description	Decision combating fraud and counterfeiting of non-cash means of payment
Goal	The objectives of this Framework Decision, namely to ensure that fraud and counterfeiting involving all forms of non-cash means of payment are recognised as criminal offences and are subject to effective, proportionate and dissuasive sanctions in all Member States cannot be sufficiently achieved by the Member States in view of the international dimension of those offences and can therefore be better achieved at Union level, the Union may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty establishing the European Community. In accordance with the principle of proportionality, as set out in that Article, this Framework Decision does not go beyond what is necessary in order to achieve those objectives.
Country	European Union, European Union Member States
Organization	The Council of the European Union
Connected initiatives	
Funding	European Union, European Union Member States
www	https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32001F0413&from=EN

Nr 127/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

DIRECTIVE (EU) 2016/1148

Description	Directive concerning measures for a high common level of security of network and information systems across the Union
Goal	The objectives of this directive is to take the necessary measures in each Member State to ensure the protection of the essential interests of its security of network and information systems, to safeguard public policy and public security, and to allow for the investigation, detection and prosecution of criminal offences.
Country	European Union, European Union Member States
Organization	The Parliament of the European Union
Connected initiatives	
Funding	European Union, European Union Member States
www	https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32016L1148&from=EN

Nr 128/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Malware Analysis and Memory Forensics

Description	At the beginning, the trainer will introduce the basic concepts of memory forensics, such as acquisition of memory and its analysis. Next, the participants will learn how to acquire memory images from Windows and Linux operating systems. In the following parts, the students will perform basic analysis tasks while working with Windows and Linux memory dumps. After the analysis tasks, the students are confronted with advanced analysis techniques, such as identifying and isolating a malware sample from a given memory image. Using the provided virtual machine, the participants will be able to follow a hands-on tutorial.
Goal	It will introduce concepts, tools and techniques used for Memory Forensics.
Organizer	ENISA
Prerequisites	Cybersecurity Specialists Diploma, ENISA account
Duration	**1 day**
Exams	no
No of ECTS credits	
E-learning	No
Job opportunities	Cybersecurity Specialists
www	https://www.enisa.europa.eu/topics/trainings-for-cybersecurity-specialists/training-courses

Nr 129/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Mobile Threats and Incident Handling

Description	The contents of this course on mobile threats and incident handling will introduce concepts, tools and techniques used for Mobile Incident Handling. The students will familiarise themselves with the risks found on Mobile platforms and ways of identifying and mitigating such risks. During the training, participants will learn about different tools available for artefact analysis on the Android operating system. Using the provided virtual machine, the participants will be able to follow a hands-on tutorial.
Goal	It will introduce concepts, tools and techniques used for Mobile Incident Handling..
Organizer	ENISA
Prerequisites	Cybersecurity Specialists Diploma, ENISA account
Duration	**1 day**
Exams	no
No of ECTS credits	
E-learning	No
Job opportunities	Cybersecurity Specialists
www	https://www.enisa.europa.eu/topics/trainings-for-cybersecurity-specialists/training-courses

Nr 130/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Introduction to Network Forensics

Description	The training consists mainly of half a day of general theoretical introduction to network forensics (with focus on the use cases of day 2) and of exercises focused on logging and monitoring, detection, and analysis or data interpretation. For example, one exercise deals with an attack on an ICS/SCADA environment in the energy sector. It starts with the preparation phase and it is followed by the incident analysis and post-incident activity. Other scenarios within the training refer to how to detect "exfiltration" in a large finance corporation environment, or the analysis of an airport third-party VPN connection compromise.
Goal	It will introduce general theoretical introduction to network forensics and exercises focused on logging and monitoring, detection, and analysis or data interpretation.
Organizer	ENISA
Prerequisites	Cybersecurity Specialists Diploma, ENISA account
Duration	**1,5 day**
Exams	no
No of ECTS credits	
E-learning	No
Job opportunities	Cybersecurity Specialists
www	https://www.enisa.europa.eu/topics/trainings-for-cybersecurity-specialists/training-courses

Nr 131/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	**Training**	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

Incident Management: A Ransomware Walkthrough

Description	The Incident Management course was created on November 2017, and gives the students an insight on the basics of defending an infrastructure, and a throughout review of the incident lifecycle – detailing all steps and taking audience through a case study with multiple choice questions that provoke discussion. Discussions are controversial and they show that there is not always a one-size-fits-all approach in Incident Response.
Goal	To give insight on the basics of defending an infrastructure, and a throughout review of the incident lifecycle.
Organizer	ENISA
Prerequisites	Cybersecurity Specialists Diploma, ENISA account
Duration	**4 hours**
Exams	no
No of ECTS credits	
E-learning	No
Job opportunities	Cybersecurity Specialists
www	https://www.enisa.europa.eu/topics/trainings-for-cybersecurity-specialists/training-courses

Nr 132/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional **project**	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

ANASTACIA Project

Description	New paradigms and methods are required to build security into an ICT system from the very beginning, adapt to changing security conditions, reduce the need to fix flaws after deployment, and provide assurances that it's secure and reliable at all times. The EU-funded ANASTACIA project addressed these concerns by researching, developing, demonstrating and validating a holistic solution that enables trust and security by design for heterogeneous, distributed and dynamically evolving CPSs.
Goal	To address the increasing vulnerability of today's ICTs
Lead Partner	Softeco Sismat, University of Murcia, Montimage
Partners involved	AALTO, Mandat International, UTRC, Archimede Solutions, ATOS, UBITECH, THALES, CNR – IEIIT, DG, ERICSSON
Duration	**01.01.2017 – 02.2020**
Results	See website
Funding	EU-funded
www	http://www.anastacia-h2020.eu/

Nr 133/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional **project**	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

PROTECTIVE Project

Description	PROTECTIVE is designed to improve organizations' ongoing awareness of the risk posed to its business by cyber security attacks. PROTECTIVE makes two key contributions to achieve this enhanced situational awareness. Firstly it increases the computer security incident response team's (CSIRT) threat awareness through improved security monitoring and increased sharing of threat intelligence between organizations within a community. Secondly it ranks critical alerts based on the potential damage the attack can inflict on the threatened assets and hence to the organizations' business. High impact alerts that target important hosts will have a higher priority than other alerts. Through the combination of these two measures organizations are better prepared to handle incoming attacks, malware outbreaks and other security problems and to guide the development of the prevention and remediation processes.
Goal	Aims to provide security teams, with a greater cyber defence capability through improved cyber situational awareness (CSA). This will simultaneously raise their level of awareness of the risk to their business posed by cyber-attacks as well as enhancing their capacity to respond to threats.
Lead Partner	Athlone Institute Of Technology, Synyo Gmbh, Poznań Supercomputing And Networking Center
Partners involved	The Email Laundry, Technische Universität Darmstadt, Agency Arniec – Roedunet, Gmv Soluciones Globales Internet S.A.U, Cesnet, A.L.E., Itti Sp. Z O.O. (ITTI), University Of Oxford (UOXF)
Duration	**02.2017 – 07.2019**
Results	See website
Funding	EU-funded
www	https://protective-h2020.eu/

Nr 134/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional **project**	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

GHOST Project

Description	GHOST envisions a transparent cybersecurity environment for all Europeans living in a connected world: with minimal effort consumers will become aware and understand the cybersecurity risks (threats and vulnerabilities), and will take informative decisions affecting their cyber-physical security and privacy. Cybersecurity technology will transform consumers' decisions into reliable automated security services and solutions, will promote security-friendly end-user habits through behavioural engineering, and deliver usable transparency. To this end the project mission is to deliver the first generation of disruptive software-enabled usable security network solution for Smart-Home occupants. GHOST cutting-edge technology will increase the level and the effectiveness of automation of existing cybersecurity services, enhance system self-defence and will open up the cybersecurity blackbox to consumers and build trust through advanced usable transparency tools derived from end-users' mental models.
Goal	The main objective set forth by GHOST is to develop a user-friendly application to improve security and privacy in a Digital Home connected to Internet of Things (IoT), using the most advanced technologies available for this purpose.
Lead Partner	Televes SA (TVES), University of Geneva, Centre for Research and Technology Hellas
Partners involved	Norwegian University of Science and Technology, Imperial College London, EXUS Innovation (EXUS), Technische Universität Darmstadt, Kalos Information System, Red Cross Spain, TECSOS Foundation, Obrela Security Industries SA
Duration	**2017 – 2019**
Results	See website
Funding	EU-funded
www	https://www.ghost-iot.eu/

Nr 135/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional **project**	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

COMPACT Project

Description	COMPACT intends to empower local LPAs to become the main actors of their cyber-resilience improvement process by providing them with effective tools and services for removing security bottlenecks.
Goal	Making the PA personnel aware of the basic cyber security threats they are exposed to. Improving the skills – both technical and behavioural – of the PA personnel via innovative training techniques that are well received by the (non IT-expert) workforce. Providing protection tools against basic cyber security threats, i.e. those with a higher impact on LPAs. Creating a LPAs level information hub, for favouring reliable and timely exchange of information among LPAs on cyber security guidelines and best practices, as well as on Indicators of Compromise (IoC). Creating a link between COMPACT LPAs level information hub and major EU level initiatives, for supporting LPAs to improve cyber-resilience in a complex European context.
Lead Partner	Engineering - Ingegneria Informatica Spa
Partners involved	
Duration	**2017 – 2020**
Results	https://www.compact-project.eu/en/About-COMPACT/Impact
Funding	EU-funded
www	https://www.compact-project.eu/

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Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional **project**	University course Postgraduate studies	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

HERMENEUT Project

Description	The EU-funded HERMENEUT project enables organisations to better evaluate their exposure to cyber risks, and the impact that cyberattacks would have on an organisation's assets by estimating the potential financial losses. The HERMENEUT team developed a methodology and a decision support tool to assess and quantify the potential economic consequences of cyberattacks on a business' assets, and the losses related to its intangible assets.
Goal	Therefore, the challenging overall goal of Hermeneut is to create a holistic, dynamic cybersecurity risk assessment model and approach to cost-benefit analysis
Lead Partner	Engineering,
Partners involved	ZenaByte, Cefriel, DeepBlue, Dedalus, Catapult Digital, Brandenburgisches Institut für Gesellschaft und Sicherheit, L'Université Paris-Saclay, EOS
Duration	**2017 – 2020**
Results	https://www.hermeneut.eu/resources/
Funding	EU-funded
www	https://www.hermeneut.eu/

Nr 137/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers,** **information/intelligence, surveillance**
	Policy	Journal	Cybersecurity

Title:

MOBILE DEPLOYABLE COMMUNICATIONS 2021

Description	SMi is proud to announce the 14th annual Mobile Deployable Communications conference, taking place in Lisbon, 27th – 28th January 2021. From the strategic level down to the tactical, efficient and clear communications are key to operational success. The fast pace of modern warfare requires agile, highly adaptable forces capable of rapid movement whilst maintaining a consistent communication and situational awareness capability. Interoperability is also becoming increasingly important to ensure seamless command and control within a multinational coalition, especially given the rising operational tempo across Europe.
Goal	Supported by the Portuguese Army, the Mobile Deployable Communications conference is designed to bring together leading program managers, strategic decision-makers, industry experts and thought leaders from Europe and further afield to explore the latest developments in communications technology. MDC is the only conference which focuses on CIS in the European operational environment through briefs from key regional partners and their international allies.
Organizer	The SMI Group
Co-organizers/ Patrons	Newtec, Paloalto NETWORKS, KRATOS, LOCKHEED MARTIN, ALLEN & OVERY, AIRBUS DEFENCE & SPACE, ABBS, ThalesAlenia Space, EnergyScout, Noxilizer, Raytheon, TERUMO, DIEHL Metering, INTELSAT. General, bp, BOEING, NORTHROP GRUMMAN, BELL
Topics	• communication technology, • to optimise battlefield command and control, • communications experts, • procurement processes, • networking sessions, • Cyber Operations, • A2/AD, C4ISR, Network Centric
Date	**27-28 January 2021, Portugal**
Costs	400 £
www	https://www.smi-online.co.uk/defence/europe/conference/mobile-deployable-communications

Nr 138/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	Cybersecurity

Title:

EUROPEAN RADAR CONFERENCE

Description	Main conference in radar in the European scope. Second in the world.
Goal	Meeting event of all European researchers in the area.
Organizer	European Micrawave Association (EuMA)
Co-organizers/ Patrons	Horizon House Every year there is a local organizer
Topics	Radar, microwave technologies, radar systems, radar signal processing, radar applications
Date	**January 2021**
Costs	Attendance: 460€
www	https://www.eumweek.com

Nr 139/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	Cybersecurity

Title:

Defense Security and Space forum

Description	Specific yearly workshop in defense and space technologies within the European Microwave Week.
Goal	Meeting event of all European researchers in the area.
Organizer	European Micrawave Association (EuMA)
Co-organizers/ Patrons	Horizon House Every year there is a local organizer
Topics	Space Situational Awareness
Date	**January 2021**
Costs	Attendance: 60€
www	https://www.eumweek.com

Nr 140/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

INTERNATIONAL CONVENTION OF DEFENSE AND SECURITY

Description	National event of all the defense industry in Spain together with the users (army) and researchers. The most interesting part is a huge exhibition of military equipment and platforms.
Goal	To gather in the same place industry providers, millitary end users and technology developers.
Organizer	Spanish Ministry of Defense
Co-organizers/ Patrons	TEDAE
Topics	All
Date	**May 2021**
Costs	free
www	https://www.feindef.com/eng/

Nr 141/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

DEFENSE AND SECURITY R+D

Description	National event where all the researchers in defense and security technologies present their latest advances.
Goal	To gather in the same place industry providers, millitary end users and technology developers.
Organizer	ISDEFE (System Engineering for the Defense of Spain)
Co-organizers/ Patrons	Spanish Ministry of Defense
Topics	All
Date	**November 2020**
Costs	100 €
www	https://www.tecnologiaeinnovacion.defensa.gob.es/es-es/Presentacion/deseid_2020/Paginas/Defensa.aspx

Nr 142/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	**University course** Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

MASTER ON DEFENSE TECHNOLOGIES

Description	Master degree oriented to professionals in the defense sector to learn about advanced technologies applied to defense and technology.
Goal	Provide specific formation in defense technology. Mainly oriented to Spanish and Southamerican students.
Organizer	Universidad Politecnica de Madrid
Co-organizers/ Patrons	In-nova
Topics	Sensors, communications and platforms
Date	**October 2020**
Costs	5940 €
www	https://www.in-nova.org/es/master-tecnologias-defensa

Nr 143/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	**University course** Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	**Cybersecurity**

Title:

MASTER ON CYBERSECURITY

Description	One year Master Degree on cybersecurity.
Goal	To teach the skills required to develop cybersecurity strategies in organizations.
Organizer	Universidad Politecnica de Madrid
Co-organizers/ Patrons	-
Topics	cybersecurity
Date	**October 2020**
Costs	2700 €
www	https://masterciberseguridad.etsit.upm.es/

Nr 144/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional **project**	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

EDA Technology Foresight Follow-on

Description	A multi-year large project driven by EDA to deeply analyze which technologies will be the most prominent in the next ten years in the scope of defense.
Goal	To provide inputs to EDA processes of identification and collection of technology trends and forward looking technologies, assessment of technologies' importance and prioritisation linked with defence capability needs.
Organizer	European Defense Agency
Co-organizers/ Patrons	ISDEFE (System Engineering for the Defense of Spain), Fraunhofer, iABG
Topics	all
Date	**2017 to 2021**
Costs	Not open to general public
www	No public web. Contact: Luis A. Garcia Caballero lgcaballero@isdefe.es

Nr 145/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

Technology Observation and Prospective System

Description	A technology observatory focused in the capabilities of Spanish defense industry.
Goal	To advise the Spanish Ministry of Defense about the capabilities of the industry and to provide visibility to researchers, and advise about the R+D strategy.
Organizer	Spanish Ministry of Defense
Co-organizers/ Patrons	ISDEFE (System Engineering for the Defense of Spain), Fraunhofer, iABG
Topics	all
Date	**Since 2010**
Costs	-
www	https://www.tecnologiaeinnovacion.defensa.gob.es/es-es/Presentacion/Paginas/SOPT.aspx

Nr 146/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	**Cybersecurity**

Title:

Horizons Technology Observatory for Defense and Security

Description	A technology observatory focused in the capabilities of European academic research groups
Goal	To advise the Spanish Ministry of Defense about the emerging technologies in defense and to keep a registry about the most active research groups working on these technologies whithin Europe
Organizer	ISDEFE (System Engineering for the Defense of Spain)
Co-organizers/ Patrons	Universidad Politécnica de Madrid
Topics	all
Date	**Since 2006**
Costs	-
www	http://www.horizontesdefensayseguridad.net/, http://catedraisdefe.etsit.upm.es/webNueva/index.html

Nr 147/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	Robotics, autonomous systems, artificial intelligence
	European, national, regional project	University course Postgraduate studies	**C4ISTAR: command, control, communications, computers, information/intelligence, surveillance**
	Policy	Journal	Cybersecurity

Title:

7th ANNUAL CONF. ON COMPUTATIONAL SCIENCE & COMPUTATIONAL INTELLIGENCE (CSCI'20)

Description	The CSCI'20 International Conference invites paper submissions from diverse communities, including researchers from: universities, corporations, government agencies, and standardization bodies. Accepted papers will be published in the conference proceedings by Conference Publishing Services (CPS). Papers are sought that address solutions to problems in all areas of computational science and computational intelligence.
Goal	Computational Science (CS) and Computational Intelligence (CI), both share the same objective: finding solutions to difficult problems. However, the methods to the solutions are different. The main objective of the CSCI Conference is to facilitate increased opportunities for cross-fertilization across CS and CI. The CSCI Conference is committed to encouraging diversity and eliminating discrimination in both its role as a conference and as a provider of services. CSCI aims to create a culture that respects and values each others' differences, that promotes dignity, equality and diversity, and that encourages individuals to develop and maximize their true potential resulting in diversity of products and diversity of solutions to challenging research problems. We are committed wherever practicable to organizing a conference that broadly reflects the international community.
Organizer	American Council on Science and Education
Topics	- ABET Accreditation and assessment (experiences and methods) - Student recruitment and retention methods - Promoting multi-disciplinary initiatives - impact on curriculum - Capstone research projects: examples and case studies - Distance learning; methods, technologies and assessment - Innovative degree programs and certificates - Innovative uses of technology in the classroom - Collaborative learning and Learning models and learning from mistakes - Computer and web-based software for instruction - Incorporating writing into CS curriculum - Preparing graduates for industry - Partnerships with industry and government - Team projects and case studies - Undergraduate research experiences - Student observation and mentoring strategies, Advising methods - Evaluation strategies (professors, students, ...) - Transition to graduate studies - Integrating gender and culture issues into computer science and Engineering curriculum

	- Issues related to the choice of first programming language - Debugging tools and learning - Projects, software engineering, programming issues, and laboratory practices - Virtual laboratories, Certificate Programs, Active learning tools - Funding opportunities for curriculum development and studies, Pilot studies - STEM (Science, Technology, Engineering & Mathematics) initiatives - Teaching methods, Recruiting methods to attract graduate students - The role of visualization and animation in education - Experiences in the formation of Department Advisory Board - Factors that lead to success in new degree programs - Software Engineering for Embedded Systems in Education
Date	**16-18.12.2020**
Costs	Full Time Student : $550.00 Non-Student: $650.00
www	https://www.american-cse.org/csci2020/

Nr 148/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTELLIGENT SYSTEMS AND ROBOTICS

Description	Computational Intelligence (CI) encompasses the techniques and methods used to tackle problems that traditional approaches to computing struggle to solve. The four areas of fuzzy logic, neural networks, CI optimisation and knowledge-based systems encompass much of what is considered to be computational (or artificial) intelligence. There are opportunities to apply what you learn in areas such as robot control and games development, depending on your interests. Modules include work based on research by the Centre of Computational Intelligence (CCI). With an established international reputation, its work focuses on the use of fuzzy logic, artificial neural networks, evolutionary computing, mobile robotics and biomedical informatics, providing theoretically sound solutions to real-world decision making and prediction problems. Past students have published papers with their CCI project supervisors and gone on to PhD study.
Organizer	De Montfort University
Cooperation with	
Duration	**1 year**
Thematic scope	Computational Intelligence Research Methods Fuzzy Logic Natural Language Processing Mobile Robots Computational Intelligence Optimisation Artificial Neural Networks and Deep Learning Applied Computational Intelligence Intelligent Mobile Robots Data Mining, Techniques and Applications
Costs	£7,920 per year
No of ECTS credits	
Job opportunities	Graduates typically follow careers within robotics programming and research, games development, control systems, software engineering, internet businesses, financial services, mobile communications, programming, software engineering and many more. Opportunities also exist for further academic study toward a PhD and a career in research.
Additional info	-
www	https://www.dmu.ac.uk/study/courses/postgraduate-courses/intelligent-systems-and-robotics/intelligent-systems-and-robotics-msc-degree.aspx

Nr 149/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ROBOTICS AND AUTONOMOUS SYSTEMS MSc

Description	Candidates will explore robotics engineering and software, autonomous systems technologies, processes and products throughout the industry value chain. Other areas candidates will cover include computational intelligence, machine learning, embedded systems and sensors. Studies will focus on tackling engineering challenges using whole-systems approaches. We'll give students the tools to analyse and evaluate the impact of resources, processes and products. The focus on practical learning makes sure students have the skills to design and build robotic platforms and autonomous systems, using the same systems as those used in industry.
Organizer	University of Bath
Cooperation with	
Duration	**1 year**
Thematic scope	Project work gives you access to facilities and workshops in our departments of Electronic & Electrical, Computer Science and Mechanical Engineering. These cover a range of areas including: - rapid prototyping (3D printers, laser cutting, additive manufacturing) - advanced electronics systems design - power electronics - electric vehicles, robotics and autonomous systems - advanced CNC machines - real-time digital simulation
Costs	It depends on whether students are a UK, EU, Island or Overseas student
No of ECTS credits	
E-learning	
Tools	
Job opportunities	
Additional info	A candidate should have a bachelor's honours degree or international equivalent, typically a high 2:2 or above. English language requirements - IELTS: 6.5 overall with no less than 6.0 in all components - The Pearson Test of English Academic (PTE Academic): 62 with no less than 59 in any element - TOEFL IBT: 90 overall with a minimum 21 in all 4 components
www	https://www.bath.ac.uk/courses/postgraduate-2020/taught-postgraduate-courses/msc-robotics-and-autonomous-systems/

Nr 150/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics**, autonomous systems, **artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

COMPUTER VISION, ROBOTICS AND MACHINE LEARNING

Description	Our MSc in Computer Vision, Robotics and Machine Learning will provide you with in-depth training and hands-on learning experiences. It's well-suited to anyone interested in a career in research-oriented institutions or pioneering technology companies that specialise in deep and machine learning, robotics and automation, and image and video analysis. On this course, you'll explore advanced computer vision and machine learning approaches for image and video analysis, as well as low-level image processing methods. You'll also have the opportunity to substantially expand your programming skills through the projects you choose to take on.
Organizer	University of Surrey
Cooperation with	
Duration	**Full-time: 1 year** **Part-time: 5 years**
Thematic scope	- Computer Vision and Pattern Recognition - Fundamentals of Digital Signal Processing - Internet of Things - Satellite Remote Sensing - Speech & Audio Processing & Recognition - Advanced Signal Processing - AI and AI Programming - Image and Video Compression - Image Processing and Deep Learning - Robotics
Costs	UK/EU £10,300 Overseas £21,700
No of ECTS credits	
E-learning	
Tools	
Job opportunities	
Additional info	We draw on our industry experience to inform and enrich our teaching, bringing theoretical subjects to life. Our industrial collaborations include: - Research and technology transfer projects with industrial partners such as the BBC, Foundry, LionHead and BAE. - A number of our academics offer MSc projects in collaboration with our industrial partners.
www	https://www.surrey.ac.uk/postgraduate/computer-vision-robotics-and-machine-learning-msc-2021

Nr 151/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ROBOTICS, AUTONOMOUS SYSTEMS AND TELECOMMUNICATIONS MSc

Description	Over the next decade, information and communication technology (ICT), including fifth-generation (5G) mobile and the Internet of Things (IoT), will have a significant bearing on how we go about our daily lives. MSc ROBUST focuses on preparing employees for industry. It's designed to take a person from a bachelor's degree in electrical and electronic engineering, computer science or mechatronics to a role in advanced engineering and technology. The dedicated, knowledgeable team cover the key areas needed to make a person stand out to employers.
Organizer	University of Bolton
Cooperation with	
Duration	**1 year**
Thematic scope	Research Skills and Project Management Autonomous Systems Principles of Mobile Communications Robotics Advanced Engineering Modelling and Analysis Satellite Communications Wireless Sensors and Automation
Costs	EU: £6,840 International: £12,450
No of ECTS credits	
E-learning	
Tools	
Job opportunities	
Additional info	
www	https://www.bolton.ac.uk/course/ELR009-F-UOB-MX/2020-21

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Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ARTIFICIAL INTELLIGENCE WITH ROBOTICS

Description	Classes consist of lectures, small group seminars, and practical work in the well-equipped laboratories. The modern, industry-standard software wherever possible is used. There are specialist facilities for networking and multimedia and a project laboratory, especially for masters students. In addition to scheduled classes, a person will be expected to conduct a significant amount of time in self-study, taking advantage of the extensive and up-to-date facilities. These include the Learning Resource Centres, open 24x7, with 1,500 computer workstations and wifi access, Studynet a versatile online study environment usable on and off campus, and open access to the labs.
Organizer	University of Hertfordshire
Cooperation with	
Duration	**1 year**
Thematic scope	Artificial Life with Robotics Neural Networks and Machine Learning Theory and Practice of Artificial Intelligence Team Research and Development Project Legal and Ethical Practice Exercise
Costs	UK/EU Students: £8925 International Students: £14500
No of ECTS credits	
E-learning	
Tools	
Job opportunities	Graduates may pursue a career as a research scientist or designer for intelligent systems such as machine learning engineer, business intelligence developer, or R&D engineer.
Additional info	
www	https://www.herts.ac.uk/courses/postgraduate-masters/msc-artificial-intelligence-and-robotics

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Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course **Postgraduate studies**	C4ISTAR : command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

INTELLIGENT ROBOTICS

Description	The study place a strong focus on practical implementation, both in hardware and simulation. The course will culminate in a large research project focussed on collective robotic systems, ranging from ground-based units to flying robots and new mechanisms at variable scales for manufacturing. The students will work in a state of the art, dedicated robotics laboratory. Through lectures and hands-on experience, the students will learn about the development of mechanisms, control systems, algorithms that can learn and adapt, and swarm systems (multiple robots working together). The students will get to experience the liveliness of this exciting field first hand.
Organizer	University of York
Cooperation with	
Duration	**1 year**
Thematic scope	Swarm Robotics C Programming for MSc Practical Robotics Control Systems Engineering for Robotics Personal Effectiveness Neural Networks and Neural Computing Critical Evaluation of Intelligent Robotic Systems Group Robotics Project
Costs	UK/EU Students: £9,010 International Students: £22720
No of ECTS credits	
E-learning	
Tools	
Job opportunities	Example careers in the rapidly expanding field of robotics include: - service industries - manufacturing - automation - logistics - the entertainment industry.
www	https://www.york.ac.uk/study/postgraduate-taught/courses/msc-intelligent-robotics/

Nr 154/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

International Conference on Enterprise Information Systems (ICEIS)

Description	The purpose of the International Conference on Enterprise Information Systems (ICEIS) is to bring together researchers, engineers and practitioners interested in the advances and business applications of information systems. Six simultaneous tracks will be held, covering different aspects of Enterprise Information Systems Applications, including Enterprise Database Technology, Systems Integration, Artificial Intelligence, Decision Support Systems, Information Systems Analysis and Specification, Internet Computing, Electronic Commerce, Human Factors and Enterprise Architecture.
Goal	
Organizer	Institute for Systems and Technologies of Information, Control and Communication
Co-organizers/ Patrons	
Topics	1 . Databases and Information Systems Integration 2 . Artificial Intelligence and Decision Support Systems 3 . Information Systems Analysis and Specification 4 . Software Agents and Internet Computing 5 . Human-Computer Interaction 6 . Enterprise Architecture
Date	**26-28.04.2021**
Costs	395€ - Member of INSTICC 445€ - Non member
www	http://www.iceis.org/

Nr 155/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

The European AI Policy Conference

Description	The European AI Policy Conference is a high-level forum to connect stakeholders working to promote AI in Europe, showcase advances in AI, and promote AI policies supporting its development to EU policymakers and thought leaders.
Goal	
Organizer	CENTER FOR DATA INNOVATION
Co-organizers/ Patrons	
Topics	
Date	**1.12.2020**
Costs	
www	https://www.aipolicyconference.org/

Nr 156/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

ARTIFICIAL INTELLIGENCE IN ENGINEERING

Description	
Goal	Often forgotten, or at least neglected, is a significant branch of the economy: Engineering. The use of AI in value-adding processes also has an impact on the competitive advantage of the economy, which is highly regarded worldwide. In the end, this as well has an economic significance for the consideration of AI deployment in engineering.
Organizer	Artificial Intelligence Center Hamburg e.V. (ARIC) Virtual Dimension Center (VDC) Network of Computer Aided Engineering-Experts
Co-organizers/ Patrons	
Topics	artificial intelligence, machine learning
Date	**2.12.2020**
Costs	
www	https://www.ai-engineering.technology/

Nr 157/2020

Fiche developed in the frame of	TYPE:		AREA:
	Conference	Training	**Robotics, autonomous systems, artificial intelligence**
	European, national, regional project	University course Postgraduate studies	C4ISTAR: command, control, communications, computers, information/intelligence, surveillance
	Policy	Journal	Cybersecurity

Title:

SCIFI-IT® conference

Description	The fifth edition of the International Science Fiction Prototyping conference covers the transition of ideas and objects from science fiction through developmental research using simulation, modelling and AI into managerial, military, industrial and household objects and tools for our future present daily lives in order for the aforementioned to become an integral part of that future present.
Goal	Living in a world driven by rapidly changing technology, what used to be classified as science fiction is fast becoming science fact. Moreover science fiction has in its own right become a source of inspiration in product development and product design. This process, better known as science fiction prototyping, functions as a vehicle to promote creative thinking and innovation in the business and technology development process using ethnographic field studies, technology research and trend data in order to create a pragmatic vision of the future for consumers and computing called 'future casting'.
Organizer	European Technology Institute
Co-organizers/ Patrons	
Topics	Using Cliodynamics to map the Future Augmented Reality and Pervasive Systems in Simulation Sci-Fi Product Design Methodology - From Mind to Matter Interfacing the real and digital world 3D printing the world - From 3D printer to replicator
Date	**14-16.04.2021**
Costs	Before March 15, 2021 Author : € 510 plus VAT (€ 617,10 inc.) Members : € 510 plus VAT (€ 617,10 inc.) Non-members: € 565 plus VAT (€ 683,65 inc.) After March 15, 2021 Author : N/A Members : € 565 plus VAT (€ 683,65 inc.) Non-members: € 605 plus VAT (€ 732,05 inc.)
www	https://www.eurosis.org/conf/scifi-it/2021/

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