


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:			
SPECIAL ISSUE "LATEST TRENDS OF AUTONOMOUS AERIAL AND TERRESTRIAL VEHICLES FOR SERVICE ROBOTICS APPLICATIONS"			
Description	<p>A special issue of <i>Machines</i>.</p> <p><i>Machines</i> is an international, peer-reviewed journal on machinery and engineering. It publishes research articles, reviews, short communications and letters.</p> <p>In recent years, autonomous vehicles and mobile robots have been widely applied in several fields of everyday life: implementation in manufacturing processes, domestic assistance, warehouses logistics, precision agriculture, surveillance, remote presence, etc.</p> <p>The last global emergency related to COVID-19 emphasized how mobile autonomous robots can be extremely important in order to provide adequate services.</p> <p>This increased interest drove the research community to deeply investigate several aspects that directly affect the realization of robotic systems and increase their efficiency, safety, and accessibility to a growing set of possible users.</p>		
Topics/ Content	<p>The topics of the Special Issue are related to aspects of theory, design, practice, and application, including but not limited to:</p> <ul style="list-style-type: none"> • Mechanical design of novel service aerial and terrestrial vehicles; • Novel applications and research frontiers; • Low level control strategies for safe human–robot coexistence • Robots fleets: communication protocols and industrial applications.; • Surveillance, patrolling, and rescue: robotics in extreme environments for human safety; • Mobile robotics for wellbeing, rehabilitation, and bio-medical applications; • Service robots for healthcare in dangerous conditions, like ones occurred in case of COVID-19 pandemic; • Simulation and modelling of mobile robots; and • Human–robot collaboration in non-productive environments. 		
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