| 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 "NONLINEAR AND OPTIMAL, REAL-TIME CONTROL OF UAV"**

| | |
|---|---|
| Description | A special issue of *Machines*.<br>Deadline for manuscript submissions: **31 October 2021**.<br>*Machines* is an international, peer-reviewed journal on machinery and engineering. It publishes research articles, reviews, short communications and letters. The aim of the journal is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.<br>The rapid development and growth in the field of UAVs as a versatile tool for monitoring, last-centimeter delivery systems, inspection, interception, photography systems, and advances in the miniaturization of their instrumentation, have given rise to widespread deployment in virtually all areas of science.<br>This Special Issue is going to highlight advances in the development and use of nonlinear and optimal real-time control of UAVs. The articles concerning all aspects of problems involving UAV services, including data processing and sensor fusion for control purposes, obstacle and collision avoidance, trajectory generation for single UAVs or swarms of UAVs, communications and networks among UAVs, and mission planning are invited. |
| Topics/<br>Content | • applications of automation, mechatronics<br>• systems and control engineering<br>• electronic engineering, mechanical engineering, computer engineering<br>• robotics, machine vision, human-machine-interfaces<br>• industrial design, machine design, turbo machinery<br>• mechanical systems, machines and related components<br>• history of technology and industrial revolution<br>• machine diagnostics and prognostics (condition monitoring) |
| ISSN | ISSN 2075-1702 |
| www | https://www.mdpi.com/journal/machines/special_issues/UAV_machines |

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