Special Issue

Application of Multiagent Systems and Artificial Intelligence Techniques in Aviation

Message from the Guest Editors

Methods and tools from the areas of multiagent systems and artificial intelligence have been gaining more and more popularity in aerospace. Next to current, highly-popular Big Data and machine learning techniques stemming from statistical AI, approaches from symbolic AI, based on rules, ontologies, mathematical logics, and formal reasoning are also applied in diverse areas of aerospace, such ATM, aircraft design, airport operations, maintenance, swarming of satellites, and UAS/UAV. However, the full potential of these novel techniques in application to aerospace is to be determined. This Special Issue welcomes a whole range of contributions, topics of interest include, but are not limited to:

- Autonomous agents and multiagent systems in aerospace applications
- Knowledge representation, reasoning, and logic in aerospace applications
- Agent-based modelling and simulation of sociotechnical systems in aerospace
- Robotics, perception, and vision in aerospace applications
- Big Data, machine learning, and data mining in aerospace applications
- Planning and scheduling in air transport
- Industrial aerospace applications of AI, MAS and ABM

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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