

Tentative Outline

Special Thematic Issue for Current Topics in Automation and Control Systems

Autonomous Robots planning and optimization

Guest Editors: Hamed Fazlollahtabar

Aims & Scope:

Self-assembled nanostructures are enabling new avenues to the current system of medicine due to their potential biological and medicinal applications. Besides, the biocompatibility, biodegradable nature and easy tailoring of these structures advocate their strong candidature for the future development of medicinal chemistry. These materials have emerged as strong device for drug development and a rapid growth is experienced in the area of biomedical sciences. Claims of organic nanoarchitectures particularly, peptides to discover novel drugs, drug delivery systems, imaging, and gene therapy are at high rate. The purpose of this special issue proposal is to summarize recent advances in the use of engineered organic molecules particularly peptide based self-assembled nanostructures as potential tools for drug development.

Keywords:

Subtopics:

The subtopics to be covered within this issue are listed below:

1. Rapid technological advancements
2. Communication Technology
3. Planning and coordination methods for multi-robots
4. Benchmark planning domains for robots
5. Scheduling methods for optimization and adaptation in robotics
6. Integrated planning and execution in robotic architectures
7. Robot path, and mission planning
8. Human-aware planning and execution in human-robot interaction
9. Adversarial action planning in competitive robotic domains
10. Formal methods for robot planning and control
11. Planning domain representations for robotics applications
12. Real-world planning applications for autonomous robots.
13. Robot motion planning
14. Agricultural Robotics
15. Human-Robot Interaction
16. Swarm Robotics
17. Service Robotics
18. Underwater Robotics
19. Evolutionary Robotics
20. Dexterous Manipulation and Grasping

Schedule:

- ✧ Manuscript submission deadline: End of June 2018
- ✧ Peer Review Due: End of August 2018
- ✧ Revision Due: End of October 2018
- ✧ Announcement of acceptance by the Guest Editors: End of November
- ✧ Final manuscripts due: January 2019

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