

COLLEGE OF ENGINEERING

ISMA'18

11th International Symposium on Mechatronics and its Applications

March 4-6, 2018, Sharjah, United Arab Emirates Conference theme: Cyber-physical systems

Call for Papers

ISMA'18 is the eleventh of a series of symposia focusing on theoretical and practical aspects of mechatronics. It will be held by the Mechatronics Graduate Program at the American University of Sharjah, UAE, March 4-6, 2018. The American University of Sharjah is located 20-km from Dubai and 140-km from Abu Dhabi. The symposium covers the synergetic integration of mechanical engineering with electronics, intelligent control, and design and manufacturing of industrial products and processes. The main idea of the symposium is to bring together scientists, scholars, engineers and students from universities and industries to exchange and promote research in the field of mechatronics, and hence to foster research relations between the universities and the industry in this field.

Scope of the Conference

Topics of interest include, but are not limited to:

- Role of industry 4.0, IoT and Cloud computing in mechatronics. Role of mechatronics in smart cities, Mechatronic systems cyber security.
- System Integration: Cyber Embedded systems, smart manufacturing systems, Smart sensors, Smart actuators, modeling and simulation, MEMS and NEMS, bio-mechatronics, autotronics, mechanism design and applications.
- Robotics and Intelligent systems: Robot kinematics and dynamics, unmanned vehicles, industrial robots, multi robotics, biomedical robotics, telerobotics, microrobotics, navigation, mapping, localization, SLAM.
- Control Systems: Real-time control, intelligent control, monitoring and supervision, observers, estimation and identification, machine learning and pattern recognition, nonlinear control, robust control, adaptive control, optimal control, digital control, distributed and networked control and control applications.
- Renewable Energy and Sustainable Systems: Mechatronics applications for control and automation of renewable energy, sustainable systems, sustainable production, and smart buildings.
- Education: Mechatronics education, virtual labs, e-learning in mechatronics, curriculum development and project-based education.

https://www.edas.info/newPaper.php?c=23764

The authors should follow the guidelines posted on the symposium website: www.aus.edu/isma18

Submitted papers will be peer reviewed. Accepted and presented papers will be published in the proceedings of the ISMA'18 symposium. All accepted and presented papers will be published in IEEE Xplore.

The organizing committee welcomes proposals for special sessions and tutorials to be held in conjunction with ISMA'18. Please send your proposals by email to isma18@aus.edu.

Important Dates (update)

Submission of a Draft Paper:	January 15, 2017
Tutorial and special session proposals:	January 15, 2018
Notification of acceptance:	January 31, 2018
Camera-ready Full paper submission:	February 15, 2018

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Symposium Organizer

AUS Mechatronics Graduate Program www.aus.edu/engr/mechatronics

Tracks

- Internet of Things and Industry 4.0: Abdul-Rahman Al-Ali
- **System Integration**: Shayok Mukhopadhyay
- Robotics and Intelligent systems: Mohammad Jaradat/Khaled Hatamleh
- Control Systems: Rached Dhaouadi
- Renewable Energy and Sustainable Systems: Jin Lee
- Education: Lotfi Romdhane

Social Program

An attractive social program including a visit to the heritage areas, Burj Khalifa tower, museums and shopping centers in Sharjah and Dubai.

For More Information

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Student Competition

A student competition will be held during the conference. Cash Prizes will be awarded to the best three posters. Students are invited to submit their research or project work in the area of conference topics.

To enter, submit a two-page paper in two-column format describing the contributions to isma18@aus.edu by January 15, 2018. Note that papers submitted to the conference do not qualify for the competition. For more details, please see the website.

Sponsors



