

# ISMA '15

10th International Symposium on Mechatronics and its Applications  
December 8-10, 2015, Sharjah, United Arab Emirates

## Call for Papers

ISMA'15 is the tenth of a series of symposia focusing on theoretical and practical aspects of mechatronics. It will be held by the Mechatronics Center at the American University of Sharjah, UAE, December 8-10, 2015. 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:

- System Integration: Embedded systems, manufacturing systems, sensors, actuators, modeling and simulation, MEMS and NEMS, bio-mechatronics, autotronics, mechanism design and applications.
- Robotics: Robot kinematics and dynamics, unmanned vehicles, industrial robots, multi robotics, biomedical robotics, telerobotics, microrobotics, navigation, mapping, localization, SLAM, intelligent systems and vision.
- 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.
- Industrial Automation: Electronics, industrial process control, PLC systems, DCS and SCADA.
- 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.

Prospective participants from all over the world are invited to submit their work using our EDAS online submission system:

<https://www.edas.info/newPaper.php?c=19691>

The authors should follow the guidelines posted on the symposium website: [www.aus.edu/isma15](http://www.aus.edu/isma15).

Submitted papers will be peer reviewed. Accepted and presented papers will be published in the proceedings of the ISMA'15 symposium. All accepted and presented papers will be published in IEEE Xplore. Selected papers will be published in a special issue of a reputed journal.

The organizing committee welcomes proposals for special sessions and tutorials to be held in conjunction with ISMA'15. Please send your proposals by email to [isma15@aus.edu](mailto:isma15@aus.edu).

## Important Dates

Submission of a draft paper	<b>June 15, 2015</b>
Tutorial and special session proposals	<b>June 15, 2015</b>
Notification of acceptance	<b>September 15, 2015</b>
Camera-ready full paper submission	<b>October 15, 2015</b>

## General Chair

Mohammad-Amin Jarrah

## Symposium Chair

Mamoun Abdel-Hafez

## International Advisory Committee

Toshio Fukuda, Japan  
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## Student Poster Competition

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Mohamed Nazzal

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Jin-Hyuk Lee

## Publication and Publicity

Shayok Mukhopadhyay

## Symposium Secretariat

Salwa Mohamed

## Symposium Organizer

AUS Mechatronics Center

[www.aus.edu/engr/mechatronics](http://www.aus.edu/engr/mechatronics)

## Social Program

An attractive social program including a visit to the heritage areas, Burj Khalifa tower, museums and shopping centers in Sharjah and Dubai, as well as a half-day desert safari, will be organized.

## For More Information

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[slwmohamed@aus.edu](mailto:slwmohamed@aus.edu)

## Student Poster Competition

A student poster competition will be held during the conference. 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 that will be shown in the poster to [isma15@aus.edu](mailto:isma15@aus.edu) by September 15, 2015. Accepted students will be notified. Note that papers submitted to the conference do not qualify for the poster competition.

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