Control Systems Society

DECEMBER 2012

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A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY

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Important Dates

Submission Site Open:
JANUARY 4, 2012

Invited Session Proposals Due:
MARCH 1, 2012 [Closed]

Initial Paper Submissions Due:
MARCH 7, 2012 [Closed]

Workshop Proposals Due:
MAY 10, 2012 [Closed]

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SEPTEMBER 5, 2012 [Closed]

Technical Program

The Bode Lecture will be presented by **Prof. Jessy Grizzle** of the EECS Department, University of Michigan, Ann Arbor. The Plenary speaker will be **Prof. Kameshwar Poolla** of the Electrical Engineering & Computer Sciences and Mechanical Engineering departments, University of California, Berkeley. The semi-plenary speakers will be **Prof. Magnus Egerstedt** of the Georgia Institute of Technology, **Prof. Mustafa Khammash** of the Swiss Federal Institute of Technology (ETHZ), **Prof. John Lygeros** of the Swiss Federal Institute of Technology (ETHZ) and **Prof. Mario Sznaier** of the Northeastern University.

CDC 2012

DECEMBER 10-13, 2012

MAUI, HAWAII

IEEE CONFERENCE ON DECISION AND CONTROL

The 51st IEEE Conference on Decision and Control will be held Monday through Thursday, December 10-13, 2012 at the Grand Wailea, Maui, Hawaii. The conference will be followed by technical workshops on **Friday, December 14, 2012.**

www.control.disp.uniroma2.it/cdc2012/index.php

2013 American Control Conference
WASHINGTON, D. C.
JUNE 17-19, 2013

ACC 2013

The ACC is internationally recognized as a premier scientific and engineering conference dedicated to the advancement of control theory and practice. The ACC brings together an international community of researchers and practitioners to discuss the latest findings in control research practice.

The 2013 American Control Conference will be held Monday through Wednesday, June 17-19, at the Renaissance Washington, D. C. Downtown Hotel, which is centrally located in Washington, D. C., within 7 blocks of the White House, the U. S. Capitol Building, the National Mall and the Smithsonian Institution. The hotel is also within 2 blocks of an extensive restaurant district.

Important Dates

Draft Manuscripts due:
SEPTEMBER 17, 2012 [Closed]

Acceptance/Rejection Notice:
By JANUARY 31, 2013

Final Manuscript Submission due:
MARCH 15, 2013

Student Programs

Student Best Paper Nominations:

The 2013 ACC is pleased to announce a Student Best Paper Award. All primary, first-listed authors of a regular contributed paper who were students at the time of submission are eligible.

To be considered for the award, the student's advisor must submit a nomination through PaperPlaza (from the PaperPlaza main page, click on "Submit a contribution to 2013 ACC" and then on "Submit" next to "Student Paper Award Nomination"). The deadline for nominations is October 31, 2012.

Up to five finalists will be announced by the end of January 2013. Each finalist is required to present his or her paper at the conference to remain eligible for the Student Best Paper Award. Travel expenses including hotel, transportation, conference registration, and meals/incidental expenses (on a per diem basis) will be covered for the finalists to enable them to attend the 2013 ACC.

www.a2c2.org/conferences/acc2013/index.html

2013 Multi-Conference on Systems and Control

MSC 2013 includes three international conferences sponsored and promoted by the IEEE Control Systems Society:

- **IEEE Conference on Control Applications (CCA)**, and,
- **IEEE International Symposium on Intelligent Control (ISIC)**, and,
- **IEEE Conference on Computer Aided Control System Design - Systems under Uncertainty (CACSD-SU).**

MSC 2013 will be a three-day event, preceded by a full day of Tutorials and Workshops. The conference proceedings will be included in **IEEE Xplore** and indexed by **INSPEC** and **Ei-Compendex**.

MSC 2013
HYDERABAD, INDIA
AUGUST 28-30, 2013

The conference will take place in Hyderabad International Convention Centre. HICC is proud to be the winner of the 'Best Convention Centre' National Tourism Award by Incredible India for three years in a row. Novotel Hyderabad Convention Centre adjacent to HICC is a 5-star 287 rooms hotel, built to suit the requirements of the discerning business traveler. HICC is a Green Globe certified convention center.

Important Dates

Special Session Proposal Submission:
FEBRUARY 15, 2013

Tutorial and Workshop Proposals Submission:
FEBRUARY 15, 2013

Technical Paper Submission:
FEBRUARY 15, 2013

Notification of Acceptance:
MAY 5, 2013

Final Camera Ready Paper Due:
JUNE 15, 2013

Early Registration Ends:
JULY 15, 2013

www.msc2013.org

Special Issue

Control of Cyber-Physical Systems

Cyber-physical systems are engineered systems whose operations are monitored, coordinated, controlled, and integrated by computing and communication cores interacting with the physical environment. Cyber-physical systems transform how we interact with the physical world just like the Internet has transformed how we interact with one another. Advances in this field will have an enormous societal impact and economic benefit in areas such as energy, transportation, manufacturing, health, agriculture and many more. Recently there has been an enormous scientific and industrial interest in cyber-physical systems. Consequently theories, tools, and practices for the design and operation of these systems are emerging. The aim of this special issue is to capture the latest developments in the fundamentals and applications of control of cyber-physical systems. We solicit papers on the following topics:

- Abstractions and heterogeneous models for cyber-physical systems
- Architectures for cyber-physical systems
- High-confidence and safety-critical networked control systems
- Modular and component-based design of cyber-physical systems
- Embedded computing and communication in cyber-physical systems
- Optimization and resource allocation in cyber-physical systems
- Real-time scheduling and performance of cyber-physical systems
- Distributed implementation and fault detection in cyber-physical systems
- Verification and run-time monitoring of cyber-physical systems
- Cyber-security and trust in control of cyber-physical systems

We expect that some of the papers will describe emerging applications in intelligent transportation, power systems, smart buildings, medical devices, mobile robotics, process industry etc.

Accepting submissions until: FEBRUARY 1, 2013

Guest Editors

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To submit a paper, please visit:

www.css.paperplaza.net/journals/tac/scripts/login.pl