CALL FOR PAPERS

IFAC 2014

The 19th World Congress of the International Federation of Automatic Control

24-29 August 2014, Cape Town, South Africa

Promoting automatic control for the benefit of humankind

www.ifac2014.org
The theme of the congress is "Promoting automatic control for the benefit of humankind".

You are invited to submit original papers covering the broad spectrum of topics in Automation and Control spanned by IFAC; papers should be of high quality in accordance with the tradition of previous IFAC World Congresses. A list of IFAC Technical Areas is listed below, and more detail may be found at www.ifac-control.org.

**TECHNICAL AREAS:**

**Systems and Signals:** Modelling, Identification and Signal Processing; Adaptive and Learning Systems; Discrete Event and Hybrid Systems; Stochastic Systems; Networked Systems

**Design Methods:** Control Design; Linear Control Systems; Non-Linear Control Systems; Optimal Control; Robust Control; Distributed Parameter Systems

**Computers, Cognition and Communication:** Computers for Control; Computational Intelligence in Control; Telematics: Control via Communication Networks

**Mechatronics, Robotics and Components:** Components and Technologies for Control; Mechatronic Systems; Robotics; Human Machine Systems

**Manufacturing and Logistics Systems:** Manufacturing Plant Control; Manufacturing Modelling for Management and Control; Enterprise Integration and Networking; Large Scale Complex Systems

**Process and Power Systems:** Chemical Process Control; Mining, Mineral and Metal Processing; Power and Energy Systems; Fault Detection, Supervision & Safety of Technical Processes

**Transportation and Vehicle Systems:** Automotive Control; Marine Systems; Aerospace; Transportation Systems; Intelligent Autonomous Vehicles

**Bio- and Ecological Systems:** Control in Agriculture; Biological and Medical Systems; Modelling and Control of Environmental Systems; Biosystems and Bioprocesses

**Social Systems:** Economic and Business Systems; Social Impact of Automation; Control Education Technology, Culture and International Stability

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South African Council for Automation and Control

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SUBMISSION INSTRUCTIONS

Papers and all other proposals must be submitted electronically using the IFAC PaperPlaza Conference Manuscript Management System: www.ifac.papercept.net.

All submissions must be in PDF format, written in English, and prepared according to the IFAC format.

Please visit www.ifac.papercept.net/conferences/manuals/authorgetstarted.pdf for detailed instructions.

REGISTRATION FEE INFORMATION

Two papers will be allowed per full registration fee and one per student registration fee.

PRE-CONGRESS WORKSHOPS AND TUTORIALS

You are invited to submit a proposal for the pre-congress workshops and tutorials which will inform participants about the state of the art in specific areas of interest to the IFAC community.

EXTENDED ABSTRACTS

The congress will accept a limited number of papers based on extended abstracts, to encourage participation from industry and from colleagues outside the traditional academic control community. These abstracts will typically be two pages in length and will be subject to peer review. Authors will present in technical or interactive sessions but the papers will not appear in the congress proceedings.

IMPORTANT DATES

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<td>June 1, 2013</td>
<td>Submission site opens</td>
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<td>October 30, 2013</td>
<td>Deadline for the submission of:</td>
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<td>• Full draft contributed/invited/industrial papers</td>
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<td>February 14, 2014</td>
<td>Notification of acceptance</td>
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<td>Preliminary programme announcement</td>
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<td>Deadline for the final submissions (papers can be uploaded only after the payment of the registration fee)</td>
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All publication material submitted for presentation at an IFAC-sponsored meeting (Congress, Symposium, Conference, Workshop) must be original and hence cannot be already published, nor can it be under review elsewhere. The authors take responsibility for the material that has been submitted. IFAC-sponsored conferences will abide by the highest standard of ethical behavior in the review process as explained on the Elsevier webpage (http://www.elsevier.com/journal-authors/author-rights-and-responsibilities), but see also the Vancouver protocol, and author information (http://labs.elsevier.com/blog/what-makes-an-author-authorship-contributorship-and-micro-attribute) and the authors will abide by the IFAC publication ethics guidelines (http://www.ifac-control.org/events/organizers-guide/PublicationEthicsGuidelines.pdf/view).

Accepted papers that have been presented at an IFAC meeting, will be published in the proceedings of the event using the open-access IFAC-PapersOnLine (http://www.ifac-papersonline.net/). To this end, the author(s) must confer the copyright to IFAC when they submit the final version of the paper through the paper submission process. See also http://www.ifac-papersonline.net/static/copyright.html for the personal permission rights to reproduce the published paper on a personal or institutional www-site.

The IPC of the IFAC event may screen presented papers with the purpose of recommending the authors to consider a derivative publication of the presented paper in one of the IFAC Journals (at present: Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control, Engineering Applications of Artificial Intelligence, and Mechatronics). The IFAC Journals have priority access to all contributions presented at IFAC events. However, if the author(s) is (are) not contacted, within three months after the meeting, the author(s) is (are) free to submit an appropriately modified version of the presented material for journal publication as considered appropriate by the author(s). In this case, the journal outlet may be freely chosen by the author(s).
THE IFAC WORLD CONGRESS
The IFAC World Congress is the forum of excellence for the exploration of the frontiers in control science and technology, attended by a worldwide audience of scientists and engineers from academy and industry. It offers the most up to date and complete view of control techniques, with the widest coverage of application fields.

ABOUT CAPE TOWN
Situated on the south-eastern tip of Africa, at the foot of the iconic Table Mountain, Cape Town is undoubtedly one of the world’s most beautiful cities. It is also a melting pot, where East meets West in Africa, and the resulting blend is a fascinating mix of cultures, flavours and history – a diversity that is easily seen in the faces of its people, their languages, architecture and food. It’s easy to see why Sir Francis Drake, when he circumnavigated the globe, described it as “the fairest Cape of them all.”

CONGRESS PROGRAMME OUTLINE
Pre-congress tutorials and workshops
Plenary lectures
Technical sessions (lecture and interactive paper)
Exhibitions and cultural events

IFAC CONGRESS PRIZES
IFAC Congress Young Author Prize
IFAC Congress Application Paper Prize
IFAC Congress Interactive Paper Prize

IFAC COUNCIL AWARDS
Giorgio Quazza Medal
Nataniel B. Nichols Medal
Industrial Achievements Award
High Impact Paper Award
Fellow Awards

IFAC JOURNALS AWARDS
Automatica Best Paper Awards
Control Engineering Practice Best Paper Awards
Journal of Process Control Best Paper Awards
Engineering Appl. of Artificial Intelligence Best Paper Awards
Mechatronics Best Paper Awards

TEXTBOOK AWARD
Harold Chestnut Control Engineering Textbook Award

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