PRE-CONGRESS WORKSHOPS & 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. These can be half-day, one-day or two-days sessions. Detailed information is available here www.ifac2017.org/workshops-and-tutorials.

PREPRINTS, PROCEEDINGS & COPYRIGHT CONDITIONS

Preprints, proceedings and copyright conditions are as requested by IFAC, see www.ifac-control.org/publications/copyright-conditions.

All publication material 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 World Congress will abide by the highest standard of ethical behavior in the review process as explained in the web page cited above.

Accepted papers that have been presented at an IFAC meeting will be published using the open-access IFAC-PapersOnLine series hosted on ScienceDirect www.sciencedirect.com/science/journal/24058963. 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. The author(s) retain the right to use a copy of the paper for personal use, internal institutional use at the author(s)' institution, or scholarly posting at an open web site operated by the author(s) or their institution, limited to noncommercial use. Any other use of the paper requires approval by IFAC.

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 IFAC format, see: www.ifac.papercept.net/conferences/support/support.php.

IMPORTANT DATES

October 2015 – PaperCept submission site opens
15 September 2016 – Open invited tracks submission deadline
31 October 2016 – IFAC-standard papers submission deadline
30 November 2016 – Workshops, tutorials and extended abstracts submission deadline
20 February 2017 – Notification of acceptance
31 March 2017 – Final paper submission (papers can be uploaded only after the payment of the registration fee)
8-9 July 2017 – Pre-Congress Tutorials and Workshops
9-14 July 2017 – IFAC World Congress

MORE INFORMATION AT

www.ifac2017.org/call4papers   contact@ifac2017.org

IFAC
INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

20th World Congress
of the International Federation of Automatic Control
July 9-14, 2017, Toulouse, France

www.ifac2017.org

CALL FOR PAPERS

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. The 20th IFAC World Congress will feature the **60th anniversary of IFAC**. An opportunity to recall the glorious history of Automatic Control and to foresee the answers Automation and Control will provide to social, economic and ecological challenges.

TOULOUSE, FRANCE

Toulouse is a beautiful French city, both cutting edge and steeped in history. It is the European Capital of the space and aeronautic industry. Toulouse is an intoxicating experience for visitors who fall for the colorful charms of the aptly named 'Ville Rose' (Pink City) and its Latin personality. It is set in dramatic landscape of a region famous for its natural beauty, and is located at the foot of the Pyrenees, midway between the Atlantic coast and the shores of the Mediterranean.

The 2017 IFAC World Congress will be held at the Toulouse Convention Center, situated in the heart of the city, just a short walking distance from the main attractions of Toulouse. This state of the art convention center offers a comprehensive range of modern world-class facilities on a compact site, including a park.

IFAC'2017 NEW FEATURES

The IFAC 2017 World Congress will follow the standards of IFAC, with rigorously peer reviewed papers organized in the program accordingly to the IFAC technical areas. The following new features are also introduced.

- Increased visibility for concrete contributions of automatic control to industrial, economic and social fields with an **application papers** category.
- A new IFAC 2017 **demonstrator papers** category to promote research or educational oriented devices, innovative prototypes and attractive transfer of technologies towards high-tech enterprises. Demonstrators will be presented at a dedicated exhibition aiming to highlight the advances of our research field and to perceive the future trends.
- A special IFAC 60th anniversary **historical papers** category dedicated to scientific discussions on how the automation and control field has emerged and grown.
- A new **open invited track** submission type for promoting specific research topics with no limitation on the number of papers, and open call to encourage large number of high quality contributions. Historical, demonstrator and application-oriented invited tracks are most welcome.

TECHNICAL AREAS

- Systems & Signals
- Design Methods
- Computers, Cognition & Communication
- Mechatronics, Robotics & Components
- Manufacturing Systems
- Industrial Systems
- Transportation & Vehicles Systems
- Bio & Ecological Systems
- Social Systems

The complete list of Congress technical areas is available at www.ifac2017.org/call4papers.
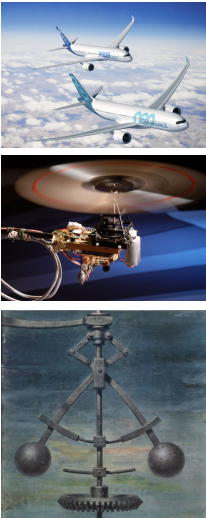
FOUR SUBMISSION CATEGORIES

Contributors are invited to prepare and submit high quality original papers within the broad spectrum spanned by the IFAC technical areas. These papers can be:

- **regular** papers presenting theoretical or application driven research with main focus on the theoretical or methodological contribution;
- **application** papers presenting research with main focus on concrete contributions to industrial, economical or social fields;
- **demonstrator** papers exposing some prototype or pedagogical device to be presented at dedicated exhibitions during the congress;
- or **history** papers relating how the automation and control field has emerged and grown.

Historical, demonstrator and application-oriented invited tracks are most welcome.

INVITED SESSIONS AND OPEN INVITED TRACKS

Contributors can organize classical **invited sessions** or **open invited tracks**. In both cases the topics should fall within the scope of the congress and address specific, well defined issues. **Invited sessions** are limited to six papers and based on personal invitation by the organizers. **Open invited tracks** have no limit on the number of papers, organizers are expected to solicit contributions, and the track proposal is advertised on the IFAC'2017 website leaving open the possibility for anyone to contribute. See www.ifac2017.org/invited for more details about **invited sessions** and **open invited tracks**.

PAPERS, SURVEYS & EXTENDED ABSTRACTS

The congress program will essentially include **papers** selected on the highest standard by the IPC, according to the IFAC guidelines www.ifac-control.org/publications/Publications-requirements-1.4.pdf, and published in open access in partnership with Elsevier in the IFAC-PapersOnline series, hosted on the ScienceDirect platform www.sciencedirect.com/science/journal/24058963. **Survey papers** overviewing a research topic are also most welcome. Contributed papers will have usual 6 pages length limitation. 12 pages limitation will apply to survey papers.

The congress will also accept a limited number of contributions based on **extended abstracts**, to encourage participation from industry and from colleagues outside the traditional academic control community. These abstracts will typically be two to four pages in length and will be subject to ad hoc peer review. Authors will present their contribution in oral or interactive sessions. Extended abstracts will appear only in the congress preprints, not in the congress proceedings.

ORAL, INTERACTIVE SESSIONS & DEMONSTRATORS EXHIBITION

The presentations will have two formats: **lecture/oral sessions** and **interactive sessions**. No value ranking is implied by the presentation format and all the papers undergo the same review process. It is at the discretion of the IPC to choose which papers are presented in either oral or invited sessions.

- The **lecture/oral presentation** consists in a talk with a time window of 20 minutes in a conference room with a screen projector. 40 minutes will be allotted for survey papers.
- The **interactive presentation** will take place during 2 hours session slots. A space will be allocated to each speaker with a TV screen to be connected to a laptop (laptops are not provided by the organization). The presenters will be encouraged to emphasize their contributions by means of videos, simulations, demonstrations of software tools, or in classical slideshow format.
- Demonstrator papers will be presented either at **interactive sessions** (for video or software demonstrators) or during one day within the **demonstrators' exhibition**. Demonstrator category submissions should be accompanied with a concise description of the required space and the required material. Installation costs will be shared between the congress organization and the contributors.

IFAC JOURNALS

Subsequent derivative publication may be based on the already published IFAC event article, but must in itself satisfy all the requirements of an original contribution to the literature, as prescribed by the journal to which the paper is submitted. Whenever a derivative journal publication does eventuate then this journal paper must contain an appropriate reference to the already published IFAC-PapersOnline publication. The IPC of the IFAC World Congress 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, Mechatronics, and Nonlinear Analysis: Hybrid Systems).