



For more information on the conference and paper submission procedures please visit www.pid18.ugent.be
Contact us: pid18@ugent.be

Organizing Committees

NOC Chair: Clara M. Ionescu
(Ghent University, Belgium)

NOC Industry Chair: Geert Deconinck
(Industrial Control and Automation -
BIRA)

NOC Industry Vice Chairs:
Joseph Serneels (IE-NET) and
Dirk Torfs (Flanders Make)

IPC Chair: Antonio Visioli
(University of Brescia, Italy)

IPC Vice Chair Industry: Alf Isaksson
(ABB, Sweden)

Proceedings Editor: Daniel R. Ramirez
(University of Seville, Spain)

NOC members:

Denis Dochain, Robin De Keyser, Mia
Loccufier, Kurt Stockman, Cosmin Copot,
Ronny Bockstaele, Stijn Derammelaere,
Jasper Juchem, Dana Copot

Important Dates:

Initial paper: 20 December 2017
Final Paper and Registration:
01 March 2018

Registration

Full Fee: 500 EUR
Student Fee: 250 EUR

The 3rd IFAC Conference on Advances in Proportional-Integral-Derivative Control (PID 2018) will be held Wednesday through Friday, May 9-11, at the Het Pand Convent and Meeting Centre in the heart of Ghent, Belgium – unanimously declared as the most pleasant city of Belgium. The conference venue is near cultural heritage places, historical monuments, restaurants, shopping, and entertainment, just a walk to all of Ghent's known sights.

Proportional-Integral-Derivative (PID) controllers are undoubtedly the most employed controllers in industry. The PID 2018 is the sequel of PID 2000 in Terassa, Spain and PID 2012 in Brescia, Italy. These last two meetings proved to be great successes and have given a significant impulse in research direction of PID controllers, as seen in the last decade in literature reports. The PID2018 conference is a timely and necessary event fueled by the challenges and perspectives of Industry 4.0 context and the renewed role of the PID controller in this new environment. In addition to provide the current state-of-art in the field, the meeting aims at providing a perspective of the future requirements for PID controllers within Industry 4.0.

The technical program will comprise several types of presentations in regular and invited sessions, tutorial sessions, and special sessions along with workshops and exhibits. This event will feature a parallel track on Internet Based control Education workshop (more details on conference website).

Honorary Guests:

Karl-Johan Åström and Tore Hägglund (Lund Univ, Sweden)

Plenary Speakers:

Julio E. Normey-Rico (Universidad Federal de Santa Catarina, Brazil)
Tao Liu (Dalian University of Technology, China)
Kevin Starr (ABB, USA)



Topics: emphasis will be put on current challenges and new directions in PID control in the context of Industry 4.0.
Below you can find a list of preferred topics, not limited to.
Contributions with both theoretical and practical relevance are encouraged.
Study cases from industry and challenges thereof are welcome.
PID tuning and automatic tuning methodologies
PID-based control structures
Applications of PID control
Industrial products for PID control design
Adaptive and robust PID control
Multivariable PID control
Identification methods for PID control design
Stabilizing PID parameters
Event-based PID control
Fractional-order PID controllers
PID control performance assessment
Control education
CACSD tools for PID control design
Fault detection techniques for PID control
Nonlinear PID control
Simple alternatives to PID controllers

IPC Members

Albertos P. (Spain)
 Alfaro V. (Costa Rica)
 Arrieta O. (Costa Rica)
 Bauer M. (South Africa)
 Berenguel M. (Spain)
 Beschi M. (Italy)
 Bhattacharyya S. (USA)
 Burnham K. (UK)
 Camacho E. F. (Spain)
 Cech M. (Czech)
 Chen Y. Q. (USA)
 Chidambaram M. (India)
 Copot C. (Belgium)
 De Keyser R. (Belgium)
 de Prada C. (Spain)
 Dormido S. (Spain)
 Gonzalez R. (Spain)
 Guzman J. L. (Spain)
 Hagglund T. (Sweden)
 Isaksson A. (Sweden)
 Karimi A. (Switzerland)
 Katebi R. (UK)
 Keel L. H. (USA)
 Kovacs L. (Hungary)
 Lanusse P. (France)
 Lennartson B. (Sweden)
 Leva A. (Italy)
 Liu T. (China)
 Majhi S. (India)
 Morilla F. (Spain)
 Moura Oliveira P. (Portugal)
 Muresan C. (Romania)
 Normey J. E. (Brazil)
 Padula F. (Australia)
 Pasik-Duncan B. (USA)
 Preitl S. (Romania)
 Quevedo J. (Spain)
 Rivera D. E. (USA)
 Sanchez J. (Spain)
 Sato T. (Japan)
 Sbarbaro D. (Chile)
 Scali C. (Italy)
 Simani S. (Italy)
 Skogestad S. (Norway)
 Tan N. (Turkey)
 Toscano E. (France)
 Tsakalis K. (USA)
 Vajk I. (Hungary)
 Veronesi M. (Italy)
 Vilanova R. (Spain)
 Vinagre B. (Spain)
 Vrancic D. (Slovenia)
 Yamamoto T. (Japan)
 Zhang W. (China)

IFAC Technical Committee Sponsors

TC2.1 – Control Design
 (main sponsor);

TC6.1 – Chemical Process Control
 (co-sponsor);

TC9.4 – Control Education
 (co-sponsor)

Copyright Conditions

"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>), and the authors will abide by the IFAC publication ethics guidelines (http://www.ifac-control.org/events/organizers-guide/PublicationEthicsGuidelines.pdf#vie_w). 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 series hosted on ScienceDirect (<http://www.sciencedirect.com>).

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."

Authors are encouraged to follow IFAC guidelines for paper formatting (<https://www.ifac-control.org/events/author-guide>)