3rd IFAC Conference on Advances in Proportional-Integral-Derivative Control

Ghent, Belgium, May 09-11, 2018

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

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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

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