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Important Dates:

Initial paper: 20 December 2017
Final Paper and Registration:
15 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 Holiday Inn Gent Expo meeting center Ghent, Belgium – unanimously declared as the most pleasant city of Belgium. The conference venue is directly connected by tram to Ghent St-Pieters train station (directly connected to Zaventem Airport by train and to Brussels-South Airport by shuttle bus). The venue is only a 10 min tram ride to all cultural heritage places, historical monuments, restaurants, shopping, and entertainment areas. The venue is easily accessible by car with parking facilities.

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 features two panel sessions, an industry update on 9th May 2018 and an educational one on 10th May 2018. A benchmark challenge competition is featured on the conference website and student competitions are also ongoing throughout the conference dates.

The technical program will comprise several types of presentations in regular and special sessions, digital poster presentations, competitions 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 (Universidade Federal de Santa Catarina, Brazil)

Tao Liu (Dalian University of Technology, China)

Kevin Starr (ABB, USA)

YangQuan Chen (University of California, USA)

Robin De Keyser (Ghent University, Belgium)



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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