



# CONTROLO'2022

## 15TH APCA INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL AND SOFT COMPUTING

**JULY 6-8, 2022, CAPARICA, LISBON REGION, PORTUGAL**

[HTTPS://CONTROLO2022.DEEC.FCT.UNL.PT/](https://controlo2022.deec.fct.unl.pt/)

### Special Session on “PID Control : Tuning, Design and Applications”

#### Organized by

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## Call for Papers

**Brief description of the theme.** Proportional-Integral-Derivative (PID) controllers are undoubtedly the most employed controllers in industry. Even with a long history behind the PID is still attracting so much attention within the research community. The last PID conference, that took place in May 2018 in Ghent, as the sequel of PID 2000 in Terassa, Spain and PID 2012 in Brescia, Italy was a good proof of that. These 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. This session aim is to put together submissions on latest developments related to PID control, both in theory and practical applications. The aim is to provide an opportunity for research and scientific discussion in the field of industrial PID tuning and design as well as advanced formulations of the PID algorithm such as, for example, fractional PID controllers or event-based PID formulations.

**This special session is devoted to all topics related with PID control and its industrial applications, including (but not limited to) the following subjects:**

- Tuning and design of PID controller
- Alternative implementations of PID control
- Machine learning approaches to PID control
- Event-based PID control
- Robust PID controller
- PID control of higher order processes
- Fractional PID control
- Intelligent PID control
- Fuzzy PID control
- Industrial PID control applications