

IFAC MIM 2019, August 28-30, 2019, Berlin, Germany

**Open Invited Track on
“Fractional order systems and controllers for industrial processes: Advances and prospects.”**

Invited track identification code: j3u79

<https://ifac.papercept.net/>

Track Chairs:

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Introduction:

Industrial processes and manufactories are an important domain of application for fractional order systems and controllers with very motivating challenges both for academics and industrial operators. This is mainly due to the high concurrency and fast development of these facilities demanding better performance in a noisy and uncertain environment. While fractional order systems offer very attractive properties: more flexibility in the design process, more robustness, and improved performance.

Many such achievement have been already realized for present or future industrial in the field of fractional order (FO) control: CRONE (Commande Robuste d'Ordre Non Entier), FO-PID, Fractional adaptive control, FO-Sliding Mode Control etc. and for fractional order identification and FO modelling. This invited tracks aims to bring together industrial and academic researchers working on the fractional order systems application to present their latest results and discuss issues related to fractional order manufacturing control problems.

Track topics:

Topics include but are not limited to: Applications of FOC, Fraction system identification and control such as Fractional order observers; Fractional $PI^{\lambda}D^{\mu}$ control; Fractional order optimal control; Fractional adaptive control; Fractional predictive control; Fractional order sliding mode control; Fractional order robust control; Non-linear fractional systems control, and Fractional order Fuzzy Control.

Submission:

For author guidelines, please refer to www.ifac-control.org.

All papers must be submitted electronically using Symposium Manuscript Management System (CMMS). All papers must be prepared in a two-column format in accordance with the IFAC manuscript style. Please use the official IFAC instructions and template to prepare your contribution as full-length draft paper and submit it on line by October 31, 2018. Submission details are available on the symposium website. All submissions must be written in English. All papers that conform to submission guidelines will be peer-reviewed by IPC members. The corresponding author submits the paper online (pdf format) as **an open invited track paper**.

Submission as an invited paper requires the **open invited track code: j3u79**.

Several international journals are associated with the MIM 2019 for publication of special issues.

Important dates:

December 15, 2018

February 20, 2019

March 15, 2019

Deadline for the submission

Notification of acceptance/rejection

Deadline for the final submission