

2020 IEEE International Conference on Industrial Informatics July 12-15, Guangzhou, China

Special Session on “Vibration Suppression Control for Underactuated Systems”

organized by

Principal Organizer: Le Anh Tuan, Vietnam Maritime University, Vietnam, tuanla.ck@vamaru.edu.vn

Organizer 1: Huimin Ouyang, Nanjing Tech University, China, ouyang1982@njtech.edu.cn

Call for Papers

Theme:

During the recent decades, a great deal of attention has been attracted to advanced control system design for uncertain and complex industrial systems, such as robots, machine tools, motors, cranes and wind turbines, due to many kinds of requirement for capability of the control on the improvement of the control performance, the costs performance and safety of the control system. With this in mind, several novel and advanced ideas in control methodology including adaptive, robust, sliding mode, optimal and cross feedback controls have been proposed and tried to apply to the practical systems.

The aim of this session is to present the new research ideas and results on advanced controls which deal with control problems for uncertain and/or complex controlled systems. The results on theory and applications of advanced control methods will be shown in order to demonstrate the applicability and efficiency of the proposed advanced control strategies. Moreover, future research interests in advanced controls including adaptive type control strategy will be promoted through discussions among the attendants of this session.

Topics of interest include, but are not limited to:

- Advanced control of underactuated systems;
- Sensorless control in motion control and power electronic systems;
- Applications of advanced control for mechatronics

Submissions Procedure: All the instructions for paper submission are included in the conference website <https://indin2020.medmeeting.org/en>

Fast track to transactions: INDIN 2020 presents a unique chance of fast-tracking best papers to IEEE Transactions on Industrial Informatics (TII). Authors intended to use the fast track shall submit papers in the form following the transactions requirements: length up to 8 pages, double-column IEEE format, without authors' names and affiliations. If the paper is accepted and recommended for the transactions' submission, the authors will be asked to:

- 1) Revise the paper according to the reviewers' comments and submit it to the TII with attached point by point summary of revisions. The paper will be then subject to double blind review process of TII.
- 2) Prepare a shortened, 4 page long version for the INDIN proceedings and submit it by the 'final manuscripts due' deadline of INDIN 2020. This version shall include authors names and affiliations as per the usual INDIN template.

Deadlines:

A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics (I.F.=7.377) subjects to further rounds of review

Deadline for submission of papers: March 07, 2020
Notification of acceptance of papers: April 18, 2020
Final manuscripts due: May 09, 2020