

**Invited Session on “Robot applications in industries and services”
for IFAC MIM 2019**

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Introduction:

The use of robots for industrial and service applications is a practice, which has started decades ago. In recent years, there are two main categories of researches focusing on the design and integration of robotic systems for manufacturing cells. The first category concentrates on the use of general purpose robots (commercial robots), and the second one aims at designing and implementation of robotic systems.

This Invited Session aims to attract recent researches and developments related to

- (i) the optimal selection and the optimal use of robotic systems for robotic cells, and
- (ii) (ii) the innovative design and implementation of new robots for applications in industries and services.

Topics:

The track chair invites scientists and engineers from government, industry and academia to contribute theoretical and applied research papers in areas including but not limited to the following topics:

- Industrial robot market
- Industrial robot selection for application
- Path planning and path optimization for industrial robots
- Integration of robot into manufacturing cells
- Welding robots, machining robots, service robots, etc
- Human – robot interface
- Robot design and implementation
- Expert systems and robotics
- Intelligent robotics in industries and services
- Collaboration of robots
- Big data and communication in robotic cells

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 online by December 15, 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. Several international journals are associated with the MIM 2019 for publication of special issues.

Important dates:

December 15, 2018 Deadline for the submission

February 20, 2019 Notification of acceptance/rejection

March 15, 2019 Deadline for the final submission