

CALL FOR PAPERS



Special Session on Collaborative Robots in Smart Manufacturing

IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
October 21-23, 2018, Washington D.C, USA



TOPIC OF THE SPECIAL SESSION

Robots are a key element to achieve manufacturing competitiveness, especially if they are able to collaborate with humans in a shared workspace in the shop-floor, creating a co-working partnership. The paradigm for robot usage has changed from an idea in which robots work with complete autonomy to a scenario in which robots collaborate with humans. This means taking the best of each partner, by exploring the cognitive and dexterity capabilities of humans and the capacity of robots to produce repetitive work and provide assistance.

Topics of the Session

- Cognitive and physical human-robot interaction
- Collaborative robots and co-working
- Robot safety and standardization
- Mobile manipulators
- Navigation and localization
- Autonomous grasping
- Robot programming by demonstration
- Collaborative robot design
- Advanced manufacturing applications

IEEE IES Technical Committee Sponsoring the Special Session:

- IEEE IES Factory Automation

ORGANIZED AND CO-CHAIRRED BY

Pedro Neto

University of Coimbra, Portugal

pedro.neto@dem.uc.pt

Olivier Gibaru

Arts et Métiers ParisTech, France

olivier.gibaru@ensam.eu

Richard Béarée

Arts et Métiers ParisTech, France

richard.bearee@ensam.eu

Author's schedule:

- **Deadline for submission of special session papers**
May 1st, 2018
- **Notification of acceptance**
July 15th, 2018
- **Deadline for submission of final manuscripts**
August 1st, 2018

For additional information please visit www.iecon2018.org