

Special Section on:

Artificial Intelligence in Industrial Systems

ARTIFICIAL INTELLIGENCE is most popular for the industrial community in recent years. The reason mainly comes from two aspects. For one thing, the theoretical advances in related disciplines such as computer vision, pattern recognition and machine learning have witnessed great breakthrough. For another, the technical applications in industry have solved many actual problems and accelerated its development. Companies like Google, Tesla and Apple all launched their industrial products with advanced functions that are made possible due to the involvement of artificial intelligence factors. These events indicate that artificial intelligence is playing an unprecedented role in modern industrial systems. Nevertheless, there are many complex problems in the implementation of artificial intelligence for a real industrial system, such as the system design, security, robustness and accessibility. This special section is focused on the application of artificial intelligence methods applied in the industrial systems, especially the computer vision, pattern recognition and machine learning related ones.

Editors invite original manuscripts presenting recent advances in these fields with special reference to the following topics:

- ✓ Detection, tracking, recognition and classification for industrial perception
- ✓ Action and activity analysis for industrial systems
- ✓ Intelligent human-machine interaction techniques
- ✓ Data analysis in industrial product design
- ✓ Multi-source data fusion for industrial systems
- ✓ Performance evaluation and benchmark datasets for industrial systems

Manuscript Preparation and Submission

Check carefully the style of the journal described in the guidelines “Information for Authors” in the IEEE- IES website: <http://www.ieee-ies.org/pubs/transactions-on-industrial-electronics>.

Please submit your manuscript in electronic form through: <https://mc.manuscriptcentral.com/tie-ieee/>.

On the submitting page, in pop-up menu of manuscript type, select: “**SS on Artificial Intelligence in Industrial Systems**”, then upload all your manuscript files following the instructions given on the screen.

Corresponding Guest Editor

Prof. Reinaldo Palhares

Federal University of Minas Gerais
Belo Horizonte, Brazil

EMAIL: rpalhares@ufmg.br

Guest Editor

Prof. Yuan Yuan

Chinese Academy of Sciences
Xi’an, China

EMAIL: y.yuan1.ieee@qq.com

Guest Editor

Prof. Qi Wang

Northwestern Polytechnical University
Xi’an, China

EMAIL: crabwq@nwpu.edu.cn

SS Guest Editors email: SSaiisys@ieee-ies.org

Timetable

Deadline for manuscript submissions:

June 30, 2018

Information about manuscript acceptance:

Spring, 2019

Publication Date:

Summer, 2019