

IEEE Transactions on Industrial Informatics



CALL FOR PAPERS



for Special Section on

"Robotics for 4th Industrial Revolution"

The Theme: The 4th industrial revolution, which is represented by cyber-physical system, is now blurring into every part of our lives. Researches on robotics such as network-based robot, artificial intelligence, cloud computing, and human-robot interaction are highly related to this recent trend. Network-based robots overcome the limitations of stand-alone robots by integrating them with web services and ambient intelligence technologies. It targets to create a hybrid physical–digital space with a myriad of proactive intelligent services that enhance the quality and the way of our living and working. Furthermore, the emergence of cloud computing initiates the massive use of a new generation of robots that enrich their cognitive capabilities and share their knowledge by connecting themselves to cloud infrastructures. The future of robots will certainly be open to an unlimited space of applications such as physical and virtual companions assisting people in their daily living, robots that are able to co-work alongside people and cooperate with them in the same environment while they guarantee the safety of the people.

We solicit papers covering the following topics of interest, but not limited to:

Intelligent robotics and mechatronics, Ubiquitous robots, Ambient intelligence, Network-based robotics, Cloud robotics, Human-robot interaction, Robot vision and audition, Sensor networks and sensor fusion, Robotic agents, Robot intelligence and learning, Intelligent space/environment technologies, Distributed robotics, Navigation and localization, Robot kinematics and dynamics, Robot control, Robotic mechanism and design, Control architecture and middleware, Haptics and teleoperation, Sensors and actuators, Medical/rehabilitation robotics, Humanoid robots, Field robots, Service robots, Industrial robots, Biorobotics and biomimetics, Robotic media and art, Internet of robotic things, Healthcare & life-support robotics, etc.

Manuscript Preparation and Submission

Follow the guidelines in “Information for Authors” in the IEEE Transaction on Industrial Informatics <http://tii.ieee-ies.org/> Please submit your manuscript in electronic form through Manuscript Central web site: <https://mc.manuscriptcentral.com/tii> . On the submitting page #1 in popup menu of manuscript type, select: SS on **Robotics for 4th Industrial Revolution**

Submissions to this Special Section must represent original material that has been neither submitted to, nor published in, any other journal. Extended versions of papers previously published in conference proceedings may be eligible for consideration if conditions listed in <http://tii.ieee-ies.org/> are fulfilled. Before submitting manuscript check the review criteria (<http://tii.ieee-ies.org/>) and other information (<http://tii.ieee-ies.org/>)

Note: The recommended papers for the section are subject to final approval by the Editor-in-Chief. Some papers may be published outside the special section, at the EIC discretion.

Timetable:	Deadline for manuscript submissions	July 31, 2017 (Extended to Aug. 31, 2017)
	Expected publication date (tentative)	February 2018

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