

2019 IEEE International Conference on Industrial Cyber-Physical Systems (ICPS2019)  
2019 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems  
(MFI2019)

Howard Hotel Taipei, Taiwan

May 6-9, 2019

**Special Session on**  
“Enabling technologies of Healthcare 4.0: from industrial revolution to  
healthcare revolution”  
**organized by**

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## Call for Papers

Powered by Industry 4.0, the new revolution in healthcare is reshaping the landscape of the entire healthcare value chain, with a paradigm shift and focus on closed-loop, large-loop and multiple-loop healthcare, which is so-called Healthcare 4.0. Cross disciplinary synergy of expertise and deep convergence of the automation technology, biomedical engineering, and health informatics is reshaping the research landscape both in academia and industry. This trend has been driven by the rapid development of health engineering, an emerging interdisciplinary field for the predictive, preventive, precise and personalized healthcare. The goal of this special session is to publish the latest research advancement in healthcare cyber-physical systems, healthcare informatics, automated medical production, healthcare robotics, and human-robot-symbiosis. We also encourage to publish the work in progress and research results in emerging research topics. This Special Session focus on the cross disciplinary approaches, solutions, and initiatives. Only unpolished original articles will be accepted.

Topics of interest include, but are not limited to:

- Cyber-Physical-Systems in the engineering of high complexity medical instruments
- Cyber-Physical-Systems in pharmaceutical management and healthcare logistics
- Collaborative robots for laboratory, surgery, rehabilitation, emergency, and home care
- Human-Robot interface and interaction
- Assistive technologies for ageing population in living spaces and working spaces
- Advanced sensing and data fusion technology for biomedical and health informatics
- Flexible, wearable, and implantable devices for prognosis, diagnosis, treatment, and medication
- Automation systems aided by biomedical sensing devices for occupational safety and health
- Deterministic communications and controls in remote surgery and telemedicine
- Digital hospitals powered by advanced sensing, identification, tracking, communication and recognition
- Precision medicine powered by data analytics, unobtrusive monitoring and Artificial Intelligence

**Submissions Procedure:** All the instructions for paper submission are included in the conference website  
<http://icps19.org/final-paper-submission>

### Deadlines:

Reception of full paper: December 30, 2018

Paper acceptance notification: March 1, 2019