

**2020 IEEE/SICE  
International Symposium on System Integration  
( SII2020 )**

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**Special Session on**

**“Theory and Technology of Human Factors”**

**organized by**

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**Sponsored by IEEE-IES Technical Committee on Human Factors, Jinhua She, Chair**

Abstract of proposed special session:

Human Factors has been primarily key concept to develop production systems, and then it is expanding to the field of human system interaction. Needless to say, human factors includes not only physical aspects but also psychology aspects. For designing the system based on human factor, it basically depends on various sensing and control technologies. In particular, robotics and intelligent system are core technology fields. In addition, the technology which enables the system properly work in the real world is also important. The organizers, therefore, propose a Special Session to discuss some case studies with focusing on robotics, intelligent system, human support system and technologies enabling real world operation based on Human Factors.

The concept of the Human Factors is indispensable for designing or developing a system interacting with human. The realization of a human support system is demanded in current high aging society. This kind of system has to support not only elderly people but also young and middle age. Thus the topics of interest of this Special Session are worth for discussing in order to solving current issues which we face.

Topics of interest include, but are not limited to:

- Ambient intelligence
- Health-care system
- Human-system interaction
- Human-support system
- Human understanding

- Human performance and modelling
- Industrial engineering
- Man-machine interface
- Mechatronics and control
- Robotics
- Sensing and recognition
- User-centered design

**Submissions Procedure:** All the instructions for paper submission are included in the conference website <https://sice-si.org/conf/SII2020/papersubmission.html>.