



## ICIT 2021 Special Session

### Advanced technology on Human Factors in Real World

- Organizer: *Organizer 1: Daisuke Chugo, Kwansei Gakuin University*  
*chugo@kwansei.ac.jp, IEEE IES Member*  
*Professor at the School of Science and Technology*  
*His research interests include Human System interaction,*  
*Assistive System and Device, Robotics. He is the*  
*secretary of Technical Committee on Human Factors.*
- Organizer 2: Sho Yokota, Toyo University,*  
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*Associate Professor at the Department of Mechanical*  
*Engineering. His research interests include Human*  
*System interaction, Assistive System and Device,*  
*Robotics. He is the vice-chair of Technical Committee*  
*on Human Factors.*
- Organizer 3: Jinhua She, Tokyo University of Technology,*  
*she@stf.teu.ac.jp, IEEE IES member.*  
*Professor at School of Engineering. His research*  
*interests include the applications of control theory,*  
*active disturbance rejection, and rehabilitation*  
*robotics. He is the delegate of Cluster 4 of IEEE IES*  
*Technical Committees and the chair of Technical*  
*Committee on Human Factors.*



#### -Technical Outline of the Session and Topics:

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. 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.

Topics of the Session, but are not limited to:

- *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*