

# **IEEE** **IMCOM 2021** Systems, Man, and Cybernetics Society

## International Conference on Ubiquitous Information Management and Communication

### January 04-06, 2021

**Online Conference - Free Registration Fee**

<http://www.imcom.org>

The conference proceedings are Scopus and EI indexed and will be published on IEEE Xplore Digital Library. **Selected papers** presented at the conference will be published after further improvement and revision at Special Issues in IEEE Access, WCMC, Oxford The Computer Journal, IEEE Transactions on Emerging Topics in Computing, IET Intelligent Transport Systems, along with 5 other SCI/SCIE journals



#### General Information

This conference will constitute a forum for the presentation and discussion of latest results in the fields of information management, communication technologies and their implications on social interaction. The aim of such a forum, as an international conference, is conducive for encouraging the exchange of ideas and information, providing research directions in cutting-edge domains, and fostering collaborations between academia and industry. In this context, the program committee will accept a limited number of papers that meet the criteria of originality and presentation quality.

Two main tracks for information processing management and communication technologies will be held, covering both research and applicability aspects. Each of these topic areas is expanded below but their sub-topics are not listed exhaustively.

#### Information Processing Management

##### Information Management

- ✓ Internet search/ Security
- ✓ Portals/ UCC management
- ✓ Online communities
- ✓ Databases/ XML/ Data mining
- ✓ Information integration
- ✓ Information personalization
- ✓ O2O, W2W, B2B, and B2C

##### Intelligent Information Processing

- ✓ Machine learning/ Machine vision
- ✓ Context-awareness
- ✓ Autonomous computing
- ✓ Natural language processing
- ✓ Affective computing
- ✓ Human-robot interaction / Cognitive robotics
- ✓ Pattern recognition
- ✓ Expert system/ AI

##### Interaction Management

- ✓ Interaction systems/ Multimodal interaction
- ✓ AR/VR/Game
- ✓ Human-drone interaction
- ✓ Multimedia visualization
- ✓ Speech recognition and graphics
- ✓ Face recognition
- ✓ Pervasive computing
- ✓ Biometrics

#### Communications

##### Networking/ Telecommunications

- ✓ Ubiquitous and mobile computing
- ✓ Wireless BAN/ PAN/ LAN/ Mesh
- ✓ Sensor networks / Ad hoc network
- ✓ Mobile multimedia QoS
- ✓ IoT software platform
- ✓ Grid and cloud computing
- ✓ SDN/ NFV/ Openflow
- ✓ Container networking
- ✓ Middleware and P2P computing

##### Social Interaction

- ✓ Social computing/ Informatics/ Social web
- ✓ New communication media/ Virtual communication design
- ✓ Edutainment, Infotainment/ E-learning
- ✓ Mobile interaction
- ✓ Cyberpsychology/ Engineering psychology
- ✓ Cognitive Modelling, Architecture, Design
- ✓ User modeling
- ✓ Human-computer interaction/ Digital human
- ✓ Usability/ User Experience

#### Important Dates

Paper submission due: **October 20, 2020 (\*)**  
 Paper acceptance notice: **November 15, 2020 (\*)**  
 Paper registration due: **November 22, 2020 (\*)**  
 Camera-ready papers due: November 30, 2020

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#### Submission Guidelines

**Regular Papers/Short Papers:** Camera-ready version of regular and short papers should not be longer than 8 and 4 pages in IEEE proceedings format, respectively. Accepted papers will be categorized into oral paper or poster paper. Both are included in IEEE Xplore Digital Library and considered for Journal recommendation. For guidelines on paper submissions, please refer to <http://www.imcom.org>

#### Keynote Speakers



**Edward W. Tunstel**  
Associate Director  
Raytheon Technologies  
Research Center, USA



**Byoung-Tak Zhang**  
Professor  
Seoul National University  
Korea



**Haruo Yokota**  
Professor  
Tokyo Institute of  
Technology, Japan



**Suntae Jung**  
Chief Strategy Officer  
Strategic Planning Team  
Surromind, Korea



**Tony Q. S. Quek**  
Professor  
Singapore University of Technology  
and Design, Singapore