

IEEE International Workshop on Computer Aided Modelling and Design of
Communication Links and Networks (CAMAD)
<https://camad2021.ieee-camad.org/>

Call for Papers

Special Session on 'Human-centered Computing in Cloud/Edge Industrial Environment and IIoT'

Scope

In the last few years, human-centered computing (HCC) has gained ever-increasing attention in both academic and industrial areas worldwide. As a cross-disciplinary research domain, HCC enables the effective integration of various human-related computational elements, which significantly benefits the interactions and collaborations in cyber-physical systems, industrial internet of things (IIoT), cyber space and physical world. With the support of intelligent HCC techniques, an enterprise or organization can develop various Human-Computer applications economically and conveniently to satisfy the complex functional or non-functional computational requirements from diverse users in industrial/social systems. However, the recently emerged novel computing paradigms, e.g., cloud and edge, bring huge opportunities and obstacles for the successful development and deployment of various intelligent HCC applications in industrial environments and industry 4.0.

Topics of Interest

Therefore, how to integrate the HCC application requirements and the advantages of cloud/edge techniques becomes an interesting but challenging task. This special session will focus on all aspects related to the HCC theories, techniques and applications in cloud and edge. Topics include, but are not limited to, the following:

- Human-centered semantic analyses in cloud/edge
- Knowledge-driven human-computer interaction in cloud/edge
- Collaborative systems in cloud/edge
- Big data analyses in HCC
- Security, privacy and trust in HCC
- Multi-agent systems in HCC
- People-cyber-physical interactions
- IIoT implementation using HCC
- Integration of HCC and 5G Networks for Cyber-Physical Systems
- Wearable information systems
- Power, energy and cost of HCC in cloud/edge industrial environments
- Integration of cloud/edge techniques/platforms for HCC applications in IIoT
- Intelligent interfaces and user modelling for cyber-physical social systems
- Multimedia applications in HCC
- AI, big data in HCC-assisted IIoT

Important Dates

Paper Submission Deadline	August 15, 2021
Decision	September 15, 2021
Camera-Ready	September 30, 2021

Submission Guideline

Prospective authors are invited to submit a full paper of not more than six (6) IEEE style pages including results, figures and references. Papers should be submitted via EDAS. Papers submitted to the conference, must describe unpublished work that has not been submitted for publication elsewhere. All submitted papers will be reviewed by at least three TPC members, while submission implies that at least one of the authors will register and present the paper at the conference. Electronic submission will be carried out through the EDAS web site at the following link: <https://edas.info/N28270> All accepted papers will be included in the conference proceedings and IEEE digital library (<http://ieeexplore.ieee.org/>).

Organizers

Lianyong Qi, Qufu Normal University, China (lianyongqi@gmail.com)

Mohammad R. Khosravi, Persian Gulf University, Iran (mohammadkhosravi@acm.org)

Xuyun Zhang, Macquarie University, Australia (xuyun.zhang@mq.edu.au)

Yuan Yuan, Michigan State University, USA (yyuan@msu.edu)



Cofinanciado por:

