CCF Transactions on

Pervasive Computing and Interaction

Call for Papers

Special Issue on 'Pervasive Intelligence: State-of-the-Art, Challenges and Perspectives'

Lead Guest Editors

Xiaokang Wang, St. Francis Xavier University, Canada
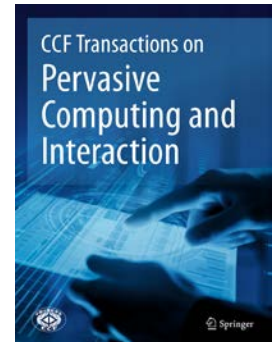Hao Wang, Norwegian University of Science & Technology, Norway

Guest Editors

Deze Zeng, China University of Geosciences (Wuhan), China
Dingqi Yang, University of Fribourg, Switzerland
Lianyong Qi, Qufu Normal University, China
Puming Wang, Huazhong University of Science and Technology, China

With the purpose of providing services for users at any-time, any-where and by any-means, pervasive computing, by seamlessly integrating the smart devices such as smart phones, cameras and smart sensors, has been witnessed significant progress. Meanwhile, considering the recent advances on technologies including artificial intelligence (AI), cloud computing, edge computing and 5G wireless communication, pervasive intelligence, also referred as Cyber-Physical-Social Systems (CPSS), is considered as the next stage of development of pervasive computing. With the ultimate purpose of providing the services at right-time, right-where and by right-means, pervasive intelligence also brings about new challenges, such as costs, deep learning, computing, communications and privacy issues.

This special issue is devoted to the most recent developments and research outcomes addressing the related theoretical and practical aspects on the state-of-the-art, challenges and perspectives of pervasive intelligence.

Topics to be covered include, but are not limited to,
- The framework of cloud/fog/edge computing for pervasive intelligence
- Security and privacy issues in pervasive intelligence
- AI-enabled cloud/fog/edge computing for pervasive intelligence
- Resource provisioning for pervasive intelligence
- Computation offloading for pervasive intelligence
- Industrial applications and illustrative case studies for pervasive intelligence
- Pervasive intelligence service provision
- High-performance computing and communication for pervasive intelligence
- Advanced technologies for pervasive intelligence (such as blockchain)

Manuscript preparation

Papers must contain original contributions and be prepared in accordance with the journal standards. Instructions for authors are available online at: http://www.springer.com/42486.

Manuscript submission

Manuscripts should be submitted online at: www.editorialmanager.com/tpci/default.aspx. Please select the category as "Special Issue on Pervasive Intelligence: State-of-the-Art, Challenges and Perspectives" when submitting the paper. The cover letter should report the following statement: "This paper is submitted for possible publication in the special issue on Pervasive Intelligence: State-of-the-Art, Challenges and Perspectives." All manuscripts will be subjected to the peer review process. If you have any questions relating to this focused section, please email one of the Guest Editors.

Important dates

- Submission deadline: 30 October 2019
- Authors' notification: 30 December 2019
- Revisions due: 31 January 2020
- Final decision: 1 March 2020
- Camera ready version due: 1 May 2020
- Tentative publication date: 30 June 2020