Wireless Communications and Mobile Computing

WILEY | Hindawi

Special Issue on

Conference Issue: Intelligent Media Computing Technology and Applications for Mobile Internet

CALL FOR PAPERS

The rapid development of artificial intelligence (AI), big data, and 5G technology has promoted the transformation of traditional media technology to intelligence. Using these emerging technologies to innovate and develop media production and communication methods has become a key research direction in the field of cultural communication. In recent years, intelligence technologies, such as machine learning, image recognition, speech recognition, neural networks, and so on, have been widely used in the field of media. These technologies can not only promote the innovation and development of media creation technology, but also play an important role in communication, especially in mobile Internet, thus greatly improving the user experience.

The application of AI technology in media creation is still in the initial stages, and the user experience of related products is not satisfactory. For example, it's difficult for intelligent composited music to achieve the same effect as a singer's singing, and the text expression of news produced by an intelligent writing robot is not accurate enough. In addition, how to balance network resources such as computing, storage, and transmission is one of the main problems faced by media intelligent computing. In some applications with high real-time requirements, intelligent scheduling of network resources is particularly important.

The aim of this Special Issue is to collect original research and review articles with a focus on intelligent media computing technology and applications for mobile Internet. We welcome submissions on the theory and technology required to realize the integration of traditional media and emerging technologies, the application and comparative analysis of different intelligent technologies in media creation, intelligent storage and transmission technology and application of media content, the intelligent recommendation optimization algorithm of media content, and the optimization algorithm of intelligent mobile media applications.

This Conference Issue is being run in partnership with The 2nd International Conference on Culture-oriented Science & Technology (ICCST), held in Beijing, China, from November 18 to 21 (http://www.iccst.org.cn/). Whilst submissions are invited from all researchers, we particularly welcome full length articles both from attendees and those that have submitted abstracts and posters for consideration at this conference.

Potential topics include but are not limited to the following:

- Theory and technology of intelligent creation of video content
- Theory and technology of intelligent synthesis of audio content
- Intelligent media content recommendation algorithm
- Prediction model of media communication based on data analysis
- Intelligent network resource allocation algorithm for media communication
- Immersive experience technology based on distributed computing
- Theory and technology of intelligent media interaction
- User experience evaluation algorithm for intelligent media computing
- Intelligent audio/video editing algorithm and applications
- Theory and technology of radio, film and television communication based on mobile Internet

Authors can submit their manuscripts through the Manuscript Tracking System at https://review.hindawi.com/submit?journal=wcmc.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor
Chien Aun Chan, The University of Melbourne, Melbourne, Australia
chienac@unimelb.edu.au

Guest Editors
Ming Yan, Communication University of China, Beijing, China
yanm@cuc.edu.cn

Yun Tie, Zhengzhou University, Zhengzhou, China
ieytie@zzu.edu.cn

Ivan Lee, University of South Australia, Adelaide, Australia
ivan.lee@unisa.edu.au

Submission Deadline
Friday, 15 October 2021

Publication Date
March 2022