

## **Guest Editorial**

# **Special Issue on “Social Issues Regarding Recent Advances in Internet Applications”, WiCON 2019**

Chun-Hsien Sung, Cheng-Yong Liu, Der-Jiunn Deng, Mohammed Atiquzzaman

Recent advances in Internet applications have unleashed considerable effort into our daily life and raise amounts of social issues, such as commercial deviance, infringement, social network problems, and education matters. The effort is involved in many different fields of social science; in particular, sociology, jurisprudence, politics, economics, and management. Therefore, it is necessary to rely on professional knowledge and expertise to recognize the implications of shifts between new Internet applications and our society.

The goal of this special issue is to publish both state-of-the-art and predictive papers on recent advances in various wireless technologies applications selected from the 12th EAI International Wireless Internet Conference, which was held in Taichung, Taiwan, during November 26-27, 2019. After the event, an open call was published to encourage the contributions presented at WiCON 2019 to be extended and submitted to this special issue. After a rigorous review process, five high-quality papers were selected for publication, which is briefly reviewed in the following.

In the paper entitled “Using Internet of Things to Improve the Sterilization Process for Surgical Instruments in Healthcare” by Lun-Ping Hung, Kuan-Yang Chen, Nan-Chen Hsieh, Chien-Liang Chen, they presented how IoT technology improved management of medical equipment in the hospital by maintaining appropriate surgical instruments and improve the quality of medical services.

In the paper entitled “Consumer Behavioral Intension for Using Mobile Payment for E-commerce in Taiwan” by Jich-Yan Tsai, Xiu-Wen Ye, Chien-Hua Wang, they presented the convenience in terms of location and personal needs of certain characteristics of mobile commerce. Based on technology acceptance model (TAM) and fuzzy Delphi method (FDM) the paper analyzed development evaluative framework. Otherwise, the fuzzy analytic hierarchy process (FAHP) is used to understand consumer’s preference factors for mobile payment. Therefore, this paper provided reference for the relative business mobile payment service and further increase user usage of mobile payments.

In the paper entitled “The EU Judicial Legal Assistance through Electronic Delivery Document with certain Research of Blockchain” by Pei-fen Tsai. The paper presented the electronic service for delivery judicial documents for every country and also brought out an impact assessment the future of digitalization of the judiciary from using electronic communication, which will simplify and speed up cross-border judicial procedures and judicial cooperation.

In the paper entitled “Deep Motivation or Surface Strategy: Effects of Authentic Technologies on Scientific Learning Outcomes and Study Approaches,” by Shih-Yang Yang, Chih-Hsiao Tsai, they investigate the effects of applying two types of authentic technology, the immersion-based augmented reality (AR) and animation simulation (AS), on college students’ achievement, study approach, and attitude to learning concepts of natural science.

In the paper entitled “An Explorative Study on Constructing Indices for Web Television Viewing” by Yu-Chi Chen, Hai-Xiang He, they presented a study regarding a qualitative index to measure television viewing behaviors in the multichannel environment. This study emphasizes that the main character of Internet users is interactivity and argues that the use of Internet television should be focus on the concept of intertextuality. The paper also provided interconnection between the user and the content and borrowed the concept “appreciation” from art as the core of the qualitative index. The conclusion is to proceed by integrating different empirical methods and data to test the practicality of the qualitative index.

As the Guest Editors of this special issue, we would like to thank all reviewers and authors for their efforts in making helpful comments and significant contributions to this special. Furthermore, we wish to acknowledge the kind assistance of all those valued Colleagues, who have generously dedicated their time to the review of papers submitted for potential inclusion in this special issue. Finally, our special thanks go to Prof. Han-Chieh Chao, the Editor-in-Chief of JIT journal, for his encouragement and support to publish this special issue and to Ms. Sharon Chang, the Assistant Editor, for her professional help during the preparation of this special issue.

**Guest Editors**



**Chun-Hsien Sung** received his Ph.D. degree in Law from University of Aberdeen (UK) in 2009. He is now a director of the Taiwan Society of Comparative Criminal Law and an assistant professor at Overseas Chinese University. He has been an

assistant professor at the Overseas Chinese University, Taiwan (2019- ), council member of the Research Society of Civil and Commercial Law under Zhuhai Law Society(2018-2019), and a lecturer at Judges Academy, Taiwan(2016-2017). His research interests include law and technology, intellectual property law.



**Cheng-yong Liu** currently an associate professor in School of Civil and Commercial Law of Beijing Institute of Technology, Zhuhai and Vice President of China Research Institute of Consumer Protection Law; also serving as an associate research

fellow in the Reserach Center for Environment and the Economic Legal System of Capital University of Economics and Business, and an associate research fellow in the Research Center of Business and Financial Laws of Ming Chuan University in Taiwan. Graduated with a doctorate in law from Tsinghua University School of Law majoring in commercial law and received the award for outstanding doctoral dissertation of Tsinghua University, Friend of Tsinghua—Guanghua Scholarship, the comprehensive merit scholarship of Tsinghua University, etc. Research area covers Company Law, Securities Law and Law *on* Futures and Financial Derivatives; main research interest lying in the insider trading in securities and derivatives and financial technology.



**Der-Jiunn Deng** (M’10) received the Ph.D. degree in electrical engineering from the National Taiwan University in 2005. He joined the National Changhua University of Education as an Assistant Professor in the Department of Computer Science and

Information Engineering in August 2005 and then became a Distinguished Professor in August 2016. In August 2018, he was seconded to Overseas Chinese University as the vice president for research and development for a period of one year. Dr. Deng has received a number of research awards, such as the Research Excellency Award of National Changhua University of Education, the Outstanding Faculty Research Award of National Changhua University of Education, the ICS 2014 Best Paper award, the NCS 2017 Best Paper Award, and the Chinacom 2017 Best Paper Award. Dr. Deng is the Co-Editor-in-Chief of

EAI Endorsed Transactions on IoT and Journal of Computers. He serves as an associate editor in IEEE Network Magazine and International Journal of Communication Systems. He also served or is serving on several program chairs, symposium chairs, and technical program committees for IEEE and other international conferences. His research interests include multimedia communication, quality-of-service, and wireless local network.



**Mohammed Atiquzzaman** (Senior Member, IEEE) obtained his M.S. and Ph.D. in Electrical Engineering and Electronics from the University of Manchester (UK) in 1984 and 1987, respectively. He currently holds the

Edith J Kinney Gaylord Presidential professorship in the School of Computer Science at the University of Oklahoma. Dr. Atiquzzaman is the Editor-in-Chief of Journal of Networks and Computer Applications, the founding Editor-in-Chief of Vehicular Communications, and serves/served on the editorial boards of many journals including IEEE Communications Magazine, Real-Time Imaging Journal, International Journal of Communication Networks and Distributed Systems and Journal of Sensor Networks and International Journal of Communication Systems. He co-chaired the IEEE High-Performance Switching and Routing Symposium (2003, 2011), IEEE Globecom and ICC (2014, 2012, 2010, 2009, 2007, 2006), IEEE VTC (2013) and the SPIE Quality of Service over Next Generation Data Networks conferences (2001, 2002, 2003). He was the panels co-chair of INFOCOM’05, and is/has been in the program committee of many conferences such as INFOCOM, Globecom, ICCCN, ICCIT, Local Computer Networks, and serves on the review panels at the National Science Foundation. He is the current Chair of IEEE Communication Society Technical Committee on Communications Switching and Routing.