Guest Editorial: Special Issue on "Selected papers from ICASI 2021"

Liang-Wen Ji*, Kin-Tak Lam, Sheng-Joue Young, Siu-Tsen Shen

So far, the novel coronavirus pneumonia has been raging around the world for more than a year. The epidemic (COVID-19) has already spread, not only changing human behavior, but also significant changes in the operation of the enterprise. However, in the post epidemic era, there are many emerging applications and business opportunities, including zero contact economy, zero border manufacturing, zero distance innovation, zero burden health, zero pollution ecology, etc. Therefore, Taiwan should make advanced deployment, such as the layout of epidemic prevention technology, strengthening the value of wisdom, the transformation and upgrading of science and technology service industry, and enhancing the industry ecology. Novel coronavirus pneumonia is a major threat to the industry in 2020. Manufacturing industry has adopted digital technology to cope with the global COVID-19 epidemic crisis, especially artificial intelligence (AI), internet of things (IoT), edge computing and analytical technology.

This special issue selected 4 papers from "7th IEEE International Conference on Applied System Innovation 2021 (IEEE ICASI 2021)". This special issue provides a systematic overview and state-of-the-art research in Internet Technology, Computing, IoT and Computer Engineering Technology, with a special focus on artificial intelligence (AI), internet of things (IoT), edge computing and Blockchain technologies, and will outline new developments in fundamental, approaches, methodologies, software systems, and applications in these areas. The aim is to discover new scientific knowledge relevant to IT-based Intelligent Electrical/Mechanical Systems, Mechanics, Human-Computer Interaction (HCI) and Design Innovations.

We would like to express our sincere appreciation of the valuable contributions and efforts made by all authors. Special thanks Professor Han-Chieh Chao, Editor-in-Chief of the Journal of Internet Technology (JIT) for offering us a chance to publish this Special Issue, and for his highly supports throughout the entire publication process.

Guest Editors



Liang-Wen Ji was born in Taipei, Taiwan, in 1965. He received the B.S. degree in physics, the M.S. degree in material science, and the Ph.D. degree in electrical engineering from National Cheng Kung University (NCKU), Tainan, Taiwan. In 2005, he became Associate Professor with the Institute of

Electro-Optical and Materials Science, National Formosa

University (NFU), Yunlin, Taiwan, and was promoted to Full Professor in 2007. Dr. Ji has become Distinguished Professor of National Formosa University since 2019. From August 2005 to July 2006, he served as the Director of the R&D Center for Flat Panel Display Technology, NFU. His current research interests include semiconductor physics, optoelectronics, nanotechnology, and internet of things (IoT). Dr. Ji was a recipient of the Research Award from Lam Research Taiwan Co., Ltd., Taiwan, in 2004. He has become TIKI Fellow of Taiwanese Institute of Knowledge Innovation since 2014.



Kin-Tak Lam received the B.S. degree in mechanical engineering from National Cheng Kung University (NCKU), Tainan, Taiwan, in 1987, and the Ph.D. degree in mechanical engineering (in field of mechanical design) from National Sun Yat-Sen University (NSYSU), Kaohsiung, Taiwan, in 1993. Currently, he is a

Professor and the Deputy Dean & academic leader of the School of Design, Fujian University of Technology, Fuzhou, P.R. China. His current research interests include nanotechnology, innovation design, creative design and Fractal Theory.



Sheng-Joue Young was born in Tainan, Taiwan. He received the B.S. degree from the Department of Physics, National Changhua University of Education, Changhua, Taiwan, in 2003, the M.S. degree from the Institute of Electro-Optical Science and Engineering from National

Cheng Kung University, Taiwan, in 2005, and the Ph.D. degree from the Institute of Microelectronics, National Cheng Kung University, in 2008. He was a Visiting Research Student with the Graduate School of Engineering, Chiba University, Chiba, Japan, from July 2007 to September 2007. In 2010, he became an Assistant professor with the Department of Electronic Engineering, National Formosa University, Yunlin, Taiwan. He was promoted to an Associate Professor in 2013. From August 01, 2020, he transferred to become an Associate professor with the Department of Electronic Engineering, National United University, Miaoli, Taiwan. His current research interests include semiconductor optoelectronic devices, and nanotechnology. He has published more than 100 SCI and EI papers in recent years.

^{*}Corresponding Author: Liang-Wen Ji; E-mail: lwji@nfu.edu.tw



Siu-Tsen Shen has studied widely, gaining her Master degree in Industrial Design Research from the Design Academy of Eindhoven, and her PhD in Design from Goldsmiths College, University of London. She has been a visiting professor at UCL and Middlesex University, UK and is currently a Professor in Multimedia Design at the

National Formosa University, Taiwan. Her research interests lie in the areas of HCI, User-Centred Design, Cross-Cultural Research, User Interface Design, and Design Team Formation using Personality Type. She is an editor in chief in Journal of Multimedia, Art, Design and Education (ISSN 2634-1395) and Journal of Cultural and Creative Industries Research (ISSN 2221-6170). She is the General Co-Chairman and leads a technical committee for Innovation in Design, Communication and Engineering (IEEE ICICE) since 2012, and International Conference on Applied System Innovation (IEEE ICASI) since 2015.