

Guest Editorial

Special Issue on Selected papers from ICICE 2018

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Engineering and Design Innovations are both academic and practical engineering fields that involve systematic technological materialization through scientific principles and engineering designs. Technological innovation by Electrical/Mechanical Engineering includes Information Technology (IT)-based Intelligent Electrical/Mechanical Systems, Electronics, Mechanics, Human-Computer Interaction (HCI) and Design Innovations. IT-based Intelligent Systems, which implant intelligence to systems, is an interdisciplinary area combining conventional electrical/mechanical technology and new information technology.

This special issue selected 3 papers from “7th IEEE International Conference on Innovation, Communication and Engineering 2018 (IEEE ICICE 2018)”. The ultimate aim is to discover new scientific knowledge relevant to IT-based Intelligent Electrical/Mechanical Systems, Mechanics, Human-Computer Interaction (HCI) and Design Innovations.

As the Guest Editors of this special issue, we would like to thank all authors who have submitted papers to the special issue and express our deepest gratitude to the reviewers for taking the time to comment on the papers.

We look forward to your participation in future special issues of Innovation, Communication and Engineering.

Guest Editors



Hao-Ying Lu was born in Taipei, Taiwan, in 1976. He received Dual degree B.E. and B.S. in Electric engineering and Chemistry from National Cheng Kung University (NCKU). He also received Ph.D. degree in electric engineering from National Cheng Kung University in 2005. He is an Associate Professor with Nation Quemoy University (NQU), Kinmen, Taiwan, where he is teaching physics and semiconductor courses in the department of electronic engineering. His current research interests include nanomaterials, phosphors, sensors, green energy technology and internet of things (IoT).



Sheng-Joue Young was born in Tainan, Taiwan. He received his B.S. degree from Department of Physics, National Changhua University of Education, Changhua, Taiwan in 2003, M.S. and Ph.D. degree from Institute of Electro-Optical Science and Engineering and Institute of Microelectronics, National Cheng Kung University (NCKU), Taiwan in 2005 and 2008, respectively. 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 (NFU), Yunlin, Taiwan, and was promoted to Associate Professor on August 01, 2013. He is also a Distinguished Professor of the Institute of Creative Industries Research, Fuzhou University; period from Jan. 1, 2014 to Dec. 31, 2014, and guide the Institute to carry out academic research. His current research interests include semiconductor physics, optoelectronic devices and nanotechnology. He has published more than 100 SCI and EI papers in recent years.



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 an 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 the 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 the TIKI Fellow of Taiwanese Institute of Knowledge Innovation since 2014.

