

PEAE 2019

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2019 International Conference on Power Engineering
and Automation Engineering

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Keynote Speakers



Prof. Dr. Dong Hwa Kim

Department of Instrumentation and Control Engineering, Hanbat National University, South Korea

He got Ph.D degree at Dept. of Computational Intelligence and Systems Science (K. Hirota Lab.), Interdisciplinary Graduate School of Science and Engineering, TIT (Tokyo Institute of Technology, K.), Tokyo, Japan as the title (Genetic Algorithm Combined with Particle Swarm Optimization/Bacterial Foraging and Its Application to PID Controller Tuning).

He has many work experiences, Professor, Director, Korean Experts Center of TDT University, Vietnam, Dean, Graduate school of Huree University, Mongolia, 2015, Prof., Dept. of Control Eng., Hanbat National University, March 2, 1993-Feb. 2015, Honorary Prof. Hanbat National University (Feb 28, 2015-), Associate fellow researcher, University Malaysia Sabah (Aug. 6, 2014 – Aug. 5, 2016), Visiting Professor, Mechanical, Optic, Engineering Informatics, Budapest University of Technology and Economic, March 20–Feb., 2013, Header of Admission office, Hanbat National University, Aug.1, 2010-July. 28,2011, President, Korea Institute HuCARE (President of Hu-CARE (Human-Centered Advanced Technology Research/Education), Nov. 2009-, EU-FP7 (EU-Framework Programme) NCP (ICT) in Korea, April 29, 2011-2015, Director, KNRF (Korea National Research Foundation), 2006-2008, Visiting Prof., University of Alberta, Canada, March 1, 1999-March 1, 2000, Inviting researcher, ANL (Algonne National Lab.), USA, Aug. 1988-Dec. 1988, Inviting Researcher, AECL (Atomic Energy Canada Lab.), Canada, Nov. 1985-Nov.1986, Korea Atomic Energy Research Institute, Nov., 1977-March, 1993, Korea-Hungary Joint Work: Aug. 1, 2010-Feb. 28, 2011, 'Robot motion related topics of the ETOCOM project' Consultation with research staff members and giving related lectures, President, Daedeok Korea-India Forum, March 1, 2010–2015, Vice President, Daedeok Korea-Japan Forum, March 1, 2010–2015, Director of Science Culture Research Institute, Korea Science Foundation, Sept. 8, 2006 - Jan. 31, 2008, Vice-president of the recognition board of the world congress of arts, sciences and communications, IBC, Sept. 1, 2007-2010, UK.

He also has many activities in keynote speak and lecture in many university (about 100 university) about future technology and mega trend of technology including his research results.

He publishes several papers (around 60) and English books of research results.

He has been studying and is currently interested in emotion technology as artificial intelligence for future ICT and emotional robot.

Title of Speech: Assessing the Impact of the Combined Technologies of AI and Blockchain on Networking and Social Pattern

Abstract: As an emerging technology, blockchain is growing into distributed system, fin-tech, security, smart contracts, and networking. Officially, some governments are hesitating to adopt formal currency but Switzerland, Japan, and other countries are permitting the official exchange of money in limited areas. Moreover, many universities are permitting students to pay tuition fee as blockchain and the Swiss city of Zug has conducted a blockchain-powered trial municipal vote between June 25 and July 1, 2018, where it forms the biggest technology area with many global companies having established blockchain centres there. It is clear that the technology of blockchain is becoming seriously useful in security, distributed work, etc. On the other hand, almost all global companies and research centres are assessing projects that combine AI with existing microelectronics technologies, leading to a growth surge in research examining the 2nd Internet in terms fast combined development in AI and blockchain. This presentation will explore how AI, blockchain, and its combined technology can be useful in innovative applications and how the results will influence social factors, platform architectures, distributed system (decentralized). The presentation is hoped to provide motivation for young researchers and students to explore novel research directions or advance their extending knowledge.

Submission Method

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Assoc. Prof. Dr. Sanya Mitaim
Thammasat University, Thailand

Sanya Mitaim received the B.Eng. degree in control engineering from King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand, and the M.S. and Ph.D. degrees in electrical engineering from the University of Southern California, Los Angeles, USA. He is an Associate Professor in the Department of Electrical and Computer Engineering, Faculty of Engineering, Thammasat University, Pathumthani, Thailand. His research interests include neural and fuzzy techniques in nonlinear signal processing and noise processing.



Prof. M. A. Hannan
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Prof Dr M A Hannan is employed in the Dept. of Electrical Power Engineering, College of Engineering, The National Energy University, Malaysia in 2016. He was in Faculty of Engineering and Built Environment, National University of Malaysia as Professor of Intelligent Systems before joining to UNITEN. He has received the PhD degree in Electrical, Electronic and Systems Engineering from the National University of Malaysia. His research interests are on power and energy especially intelligent inverter controller, energy storage system, motor drive, microgrid, FACTS and custom power devices, vehicle safety, hybrid vehicle and solid waste applications. He has been obtained about RM 10 million research funds, supervised 37 (2 post-doctoral, 19 PhD and 17 master by research) students and published 300+ research papers in reputed journals and proceedings. His H index and citation are in Google Scholar (H index 27; citation 3499), Research gate (H index 24; citation 2579, Reads 79k), Scopus (H index 22; citation 2201). He is the members of many professional organizations such as Senior Member, IEEE, IEB, IAENG, BCS etc. He has been serving as program examiner, funding proposal evaluator, thesis examiner, associate editor in IEEE Access, Editor-in-Chief (Journal of Energy & Environment, ISSN: 1985-7462), reviewer in many IEEE Transactions, Elsevier Science and some other journals, editorial board members as well as in the committee and reviewer of many International Conferences. He has been awarded many times for research and contributions, just a few such as, Gold medal in ITEX 2018, Gold medal in MTE, 2017; Gold medal in ITEX 2017; Gold medals PERINTIS, 2016; Gold Medal with Outstanding Achievement in International Innovation Festival, 2014; Runner up in Schneider Electric University Challenge "Go Green in Malaysia" 2012; Runner up in the DIGI Challenge "Change for Social Venture Competitions" 2011; Champion in the National Electric Power System Competition, 2009; Excellent Scientist for outstanding research in 2005 by MOHE, Malaysia; Gold medal in SIIF 2004, Korea etc.

Title of Speech: Power Electronic Contributions in Renewable Energy Conversion toward Reducing Global Warming

Abstract: Global energy consumption is increasing at a dramatic rate and most of the energy comes from fossil fuels which cause the problem of global warming due to the emission of greenhouse gases. Climate change and the global warming challenges turn up to be like a major threat to the world. Accordingly, the world is going through a crucial energy problem to supply efficient and cost-effective energy to face the rapid rise of energy need and increasing negative environmental impacts. Therefore, new guidelines and technological innovation are necessary to ensure energy security without causing emissions. Power electronics technology offers high reliability, efficiency and has been successfully implemented in different applications to convert renewable energy, conserve energy, improve performance efficiency and mitigate global emissions. This keynote focuses on various aspects of power electronics technologies in converting energy from convention form to a sustainable form which in turn solves the existing global warming problem. The different topologies of power electronics converters are explained on the basis of types, control difficulties, benefits, and drawbacks. Different categories of power electronics controllers utilized for energy conversion are comprehensively reviewed on their structure, algorithm, and mathematical model, strength, and weakness. Furthermore, the review emphasizes the execution of power converters and controllers in different applications and highlights their contribution to save energy and mitigate emissions. All the highlighted insights of this keynote will hopefully lead to increasing efforts towards the development of the advanced power electronics converters and controllers for efficient energy conversion which in turn can reducing of global warming.

