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SPEAKERS

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.

Speech Title: SocialCar: Integrating Carpooling into Existing Mobility and Public Transportation Systems

Abstract: Recently, global company's such as Amazon, Google, Facebook, IBM, MS and Top University such as, MIT, Harvard, McGill, Toronto University and so on is going to have an initiative about artificial intelligence because that technology has an influence on economy and social situation, and gives an impact to development of new technology.
[Harvard business review]: Many experts are expecting that a big slice of the workforce is about to lose their jobs because of artificial intelligence. By Oxford's material, 47% of jobs could be automated by 2033. Even the near-term outlook has been quite negative. A 2016 report by the OECD predicts 9% of jobs in the 21 countries that make up its membership could be automated. McKinsey's report estimates AI-driven job losses at 5% in January 2017. Many researchers predict a net job loss of between 4% and 7% in key business functions by the year 2020 due to AI.
Our research terms will be shorter because of change of ICT and AI. This lecture will deal with current AI research status of global company and University such as MIT, Harvard, and other top Universities. This lecture gives an importance and principle of AI research and neural network such as deep leading or optimization, and also shows how it is useful on mechanical, electronics, computer engineering, and etc. Also this lecture introduces current other AI research topic for SMEs business, researcher, Ph. D students, and master course through my research materials. This lecture suggests future's vision of AI research.

Prof. Sim Kok Swee
The Multimedia University, Malaysia

Professor Sim has won several international awards from the Academic Science Malaysia (ASM) as Top Research Scientists Malaysia (TRSM); Korean innovation and special Awards in 2013, 2014, 2015; the 2005, 2006 and 2011 World Conference in Applied Computing (USA); and 2008 IEEE conference at UK. For national level achievements, he won the Gold Medal Award in the Invention, Innovative & Technology Exhibition (ITEX) 2008, 2009, 2010, 2013, 2014; Bio Malaysia Award 2009, 2010; Malaysia Technology Expo 2011, AIK2011, AIK2012; Apicta Gold medal award 2014, 2015. He also awarded as MMU best staff in year 2009, 2010 and 2015. In 2016, he was given awards for the TM Kristal Award and two International Championships of World Summit on the Information Society (WSIS) Prizes in the category ICT applications: E-science during the event held in conjunction with WSIS 2016, Geneva, Switzerland. These awards were in the areas of biomedical Engineering (breast cancer detection and brain for early infarct detection). In 2017, he again received another WSIS 2017 International Championship Award on the Automated Pneumatic Glove Sample Stamping Machine for Colorimetric Test. Over all, he has won more than 80 awards which can be found in his website. He is currently working closely with various local and overseas institutions and hospitals such as Department of Electrical and Computer Engineering from National University of Singapore, Centre for Intelligent Systems Research at Deakin University (Australia), Department of Mathematic at Chinese University Hong Kong, Hong Kong University Science and Technology (HKUST), City Hong Kong University (CityU), Perkeso Rehabilitation, Malacca General Hospital, Hospital, Pantai Ayer Keroh and Putra Specialist Hospital.

He has heavily involved in various engineering council namely Institute of Engineer Malaysia (IEM) as Melaka State committee member, secretary, vice chairman, Multimedia University student chapter advisor, Institution of Engineering and Technology (IET) MMU student chapter. He is also the senior member of IEEE, Fellow member of IEM. As professional Engineer, he also registered as Chartered Engineer from IET, Professional Engineer from IEM, International Professional Engineering

from IEM and APEC, Asia Pacific Engineer (APEC) from both IEM and APEC, and also Asean Chartered Professional Engineer.

He also serves as fellowship for Malaysia Academic Science Malaysia, senior panel for Engineering Accreditation council and Malaysian Qualifications Agency (MQA) to visit universities to assess university programs. So far, Prof. Sim has filed eight patents and more than 70 copyrights. Prof Sim has brought in National and International funding respectively to support his researches.

Plenary Speaker

Prof. Yin-Tien Wang
Department of Mechanical Engineering, Tamkang University, Taiwan

Yin-Tien Wang received the M.S. degree from Stevens Institute of Technology in 1988 and Ph.D. degree from University of Pennsylvania in 1992, both in mechanical engineering. He is currently a Professor with the Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, New Taipei City, Taiwan, where he is in charge of Robotics and Machine Vision courses. His current interests include real-time vision localization and mapping research and the transference of this technology to robotic and nonrobotic application domains.

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