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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.



### Prof. Yow Kin Choong

GIST College, Gwangju Institute of Science and Technology, Gwangju, Republic of Korea

Yow Kin Choong obtained his B.Eng (Elect) with 1st Class Honours from the National University of Singapore in 1993, and his Ph.D. from Cambridge University, UK in 1998. He joined the Gwangju Institute of Science and Technology (GIST) in March 2013, where he is presently a Professor in the GIST College. Prior to joining GIST, he was a Professor at the Shenzhen Institutes of Advanced Technology (SIAT), P.R. China (2012-2013), and Associate Professor at the Nanyang Technological University (NTU), Singapore (1998-2012). In 1999-2005, he served as the Sub-Dean of Computer Engineering in NTU, and in 2006-2008, he served as the Associate Dean of Admissions in NTU.

Yow Kin Choong's research interest is in Ambient Intelligence which includes passive remote sensing such as Computer Vision, wireless communications such as Ad hoc and Sensor Networks, and computational intelligence such as Fuzzy-Neuro Inference Systems. He has published over 80 top quality international journal and conference papers, and he has served as reviewer for a number of premier journals and conferences, including the IEEE Wireless Communications and the IEEE Transactions on Education. He has been invited to

## Latest News

December 12th, 2017

Assoc. Prof. Moo K. Chung will give a invited speech '*Heat Kernel Smoothing in Irregular Image Domains*' at the ICOAE 2018 . [\[Read more\]](#)

October 23, 2017

The submission deadline has been extended to November 25, 2017. [\[Read more\]](#)

September 20, 2017

Prof. Dr. Dong Hwa Kim (Hanbat National University, South Korea) will give a keynote speech at the conference. [\[Read more\]](#)

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give presentations at various scientific meetings and workshops, such as the CNET Networks Event (2002) as well as the Microsoft Windows Server 2003 Launch (2003). He is also a member of the IEEE, ACM, and the Singapore Computer Society (SCS).

His pioneering work in Mobile and Interactive Learning won the HP Philanthropy grant in 2003 for applying Mobile Technologies in a Learning Environment. Only 7 awards were given to the 21 Asia Pacific Countries who were invited, and his project was the only one from Singapore to win it. Also, in 2003, he was one of the only 2 Singaporeans to be awarded participation to the ASEAN Technology Program on Multi Robot Cooperation Development held in KAIST, Korea.

He was the winner of the NTU Excellence in Teaching Award 2005, and he won the Most Popular SCE Year 1 lecturer for 4 consecutive years 2004-2007. He has led numerous student teams to National and International victories such as the IEEE Computer Society International Design Competition (CSIDC) (2001), the Microsoft Imagine Cup (2002, 2003 and 2005), and the Wireless Challenge (2003).



**Assoc. Prof. Moo K. Chung**

Department of Biostatistics and Medical Informatics, University of Wisconsin-Madison, USA

Biography: Moo K. Chung, Ph.D. is an Associate Professor in the Department of Biostatistics and Medical Informatics at the University of Wisconsin-Madison (<http://www.stat.wisc.edu/~mchung>). He is also affiliated with the Department of Statistics and Waisman Laboratory for Brain Imaging and Behavior. Dr. Chung received Ph.D. in Statistics from McGill University under Keith J. Worsley and James O. Ramsay on Computational Neuroanatomy. His research concentrates on the methodological development required for quantifying and contrasting anatomical shape and network variations in both normal and clinical populations using various mathematical, statistical and computational techniques. Recently he won NIH Brain Initiative Award for three years between 2017-2019 for building large-scale brain networks and uses it for mapping the baseline heritability. He has written two books on brain image analysis and working on the third book on brain network analysis that will be published in 2018 through Cambridge University Press.

## Speech Title: Heat Kernel Smoothing in Irregular Image Domains

**Abstract:** Heat kernel smoothing was originally introduced in the context of filtering out surface data defined on mesh vertices obtained from 3D medical images in 2005. The formulation uses the tangent space projection in approximating the heat kernel by iteratively applying Gaussian kernel with smaller bandwidth. Recently proposed spectral formulation to heat kernel smoothing constructs the heat kernel analytically using the eigenfunctions of the Laplace-Beltrami operator, avoiding the need for the linear approximation in the tangent space approximation. In this talk, we present the discrete version of heat kernel smoothing on graph data structure. The method is used to smooth data in irregularly shaped domains in 3D medical images. As an application, we show how to filter out the human lung blood vessel trees and mandibles obtained from computed tomography for shape quantification. The talk is in part based on <http://doi.org/10.1016/j.media.2015.02.003>



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