

## ***Professor Pau-Choo Chung***

### **National Cheng Kung University (NCKU)**



**Pau-Choo (Julia) Chung** received the Ph.D. degree in electrical engineering from Texas Tech University, USA, in 1991. She then joined the Department of Electrical Engineering, National Cheng Kung University (NCKU), Taiwan, and has become a full professor since 1996. She served as the Vice Director (2001-2005), then the Director (2005-2008) of the Center for Research of E-life Digital Technology, the Director of Electrical Laboratory (2005-2008), and the Director of Institute of Computer and Communication Engineering (2008-2011), NCKU. She was selected as Distinguished Professor of NCKU, 2005. She currently is serving as the Chair of Department of Electrical Engineering, NCKU.

Dr. Chung's research interests include medical image analysis, video analysis, pattern recognition, computational intelligence, biosignal analysis, neural networks, and computer vision. Particularly she applies most of her research results on healthcare and medical applications. She received many awards, such as the annual best paper award in Chinese Journal Radiology 2001, the best paper awards from World Multiconference on Systemics, Cybernetics, and Informatics (SCI) 2001 and International Computer Symposium (ICS) 1998, Acer's Best Research Award in 1994 and 1995, the best paper awards from the Conference of Computer Vision, Graphics, and Image Processing (CVGIP), in 1993, 1996, 1997, 1999, and 2001, Best Research Young Innovator Award of National Science Council, Taiwan, in 1999. Dr. Chung has served as the Program Co-Chair, the Publicity Co-Chair, the Special Session Co-Chair, and program committee member in many international conferences. Dr. Chung was the Chair of IEEE Computational Intelligence Society (CIS) (2004-2005), Tainan Chapter. She is the Chair of the IEEE Life Science Systems and Applications Technical Committee, and a member of the BioCAS Technical Committee in the CAS Society. She served as the Editor of Journal of Information Science and Engineering, the Guest Editor of IEEE Transactions on Circuits and Systems-I, and the Secretary General of Biomedical Engineering Society of the Republic of China. Currently she is the Associate Editors of IEEE Transactions on Neural Networks and Learning Systems, the Multidimensional Systems and Signal Processing, and Soft Computing. She is one of the co-founders of Medical Image Standard Association (MISA) at Taiwan and currently is in the Board of Directors of MISA, and BoG of Image Processing and Pattern Recognition (IPPR) Association, Taiwan.

Pau-Choo Chung currently is serving the second term in BoG of CAS Society (2007-2009, 2009-2012) and the ADCOM member of IEEE CIS. She also served as one IEEE Distinguished Lecturer (2005-2007) in CASS. She is in Member of Phi Tau Phi honor society and has been an IEEE Fellow since 2008.

### ***Research Issues at EE of NCKU***

The Department of Electrical Engineering consists of one undergraduate program and three Institutes. The researches in the Electrical Engineering Department of National Cheng Kung University (NCKU) range from VLSI and chip design, Control, Material, Microelectronics, Renewable Energies, Computer and Communication. Among such broad band of researches, there are several areas which are highly related to the computational intelligence (CI). These includes the application of CI on energy grid, on power analysis, on intelligent robotic. National Cheng Kung University has an associated hospital which serves as the main medical center in southern Taiwan. This initiates a significant amount of cooperation between the Hospital and the engineering sides. Thus, NCKU-EE has certain amount of faculties working on healthcare and medical related researches. In this presentation, I will briefly introduce these researches for bringing the attendees a guideline for seeking the collaboration partners.