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Professor Ma Kai-Kuang received his B.E. degree from Chung Yuan Christian University, Chung-Li, Taiwan, Republic of China, M.S. degree from Duke University, Durham, NC, U.S.A., and the Ph.D. degree from North Carolina State University, Raleigh, NC, U.S.A.; all in the field of electrical engineering. He is a *Fellow of the Academy of Engineering, Singapore* and an *IEEE Fellow* for his contributions on “Image Processing and Digital Video Coding Technologies” that have created high impact with 9,000+ of paper citations according to Google Scholar.

He started his academic career at School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, in 1995 as Lecturer and was promoted to Full Professor in 2005. He has been serving as Deputy Director of Centre for Signal Processing (2002~2005) and Programme Director of Master of Science Degree on Signal Processing (2002~2006). From 1992 to 1995, he was a Member of Technical Staff at Institute of Microelectronics (IME), working on digital video coding and the MPEG standards. From 1984 to 1992, he was working in IBM Corporation at Kingston, NY, and then Research Triangle Park, NC, USA, engaging on various DSP and VLSI advanced product development. His research interests are in the areas of digital image/video processing, computer vision and machine intelligence. Prof. Ma has extensive publications in well-known international journals and conferences with high citation, besides the contributions made in various MPEG standardization meetings. He holds one USA patent on fast motion estimation algorithm. He has acquired numerous external and international research grants (such as defence projects with TL@NTU, DAPAR with USA, NTU-WASP with Sweden).

Dr. Ma was awarded a *Municipal Services Award 2018* (Team Category) in recognition of his machine intelligence research — “Video Analytics Algorithm for Automatic Pigeon Detection” for the Smart Nation project, initiated and spearheaded by the Prime Minister Office, Singapore. He was serving as *Singapore MPEG Chairman* and *Head of Delegation* (1997-2001). On the MPEG contributions, two fast motion estimation algorithms (Diamond Search and MVFAST) produced from his research group have been adopted by the MPEG-4 standard, as the reference core technology for fast motion estimation. He is the General Chair of organizing a series of international standard meetings (MPEG and JPEG), JPEG2000 and MPEG-7 workshops held in Singapore (March 2001).

He was elected as a *Distinguished Lecturer* of the IEEE Circuits and Systems Society for 2008-2009. He is a General Co-Chair of ISPACS2017, ASIPA2017, ACCV2016 Workshop, VCIP-2013; Technical Program Co-Chair of ICASSP-2022 (to be), ICIP-2004, ISPACS-2007, IHH-MSP-2009, and PSIVT-2010; and Area Chair of ACCV-2009 and ACCV-2010. Dr. Ma has been serving as *Senior Area Editor* in two leading international journals in his research area, *IEEE Signal Processing Letters* (2018-Now), *IEEE Transactions on Image Processing* (2016~2019), *Associate Editor* or *Editorial Board Member* of several prestigious international journals: the *IEEE Signal Processing Letters* (2014-2016), the *IEEE Transactions on Image Processing* (2007-2010), the *IEEE Transactions on Communications* (1997-2012 as Editor), *IEEE Transactions on Multimedia* (2002-2009), the *International Journal of Image and Graphics* (2003-2016), and the *Journal of Visual Communication and Image Representation* (2005-2014). He is an elected member of three IEEE Technical Committees: *Image and Multidimensional Signal Processing* (IMDSP) Committee, *Multimedia Communications* Committee, and *Digital Signal Processing*. He has been serving as Technical Program Committee member, reviewer and Session Chair of multiple IEEE international conferences. He is Chairman of IEEE Signal Processing Singapore Chapter (2000-2002). He is a member of Sigma Xi and Eta Kappa Nu.