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Professor Ma received his B.E. degree (electronic engineering) from Chung Yuan Christian University, Chung-Li, Taiwan, Republic of China, M.S. degree (electrical engineering) from Duke University, Durham, NC, U.S.A., and the Ph.D. degree (electrical engineering) from North Carolina State University, Raleigh, NC, U.S.A.

He is now Full Professor of Information Engineering, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore. He had served as Deputy Director of Centre for Signal Processing (CSP; 2002~2007) 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, National University of Singapore, 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, U.S.A., engaging on various DSP and VLSI advanced product development. His research interests are in the areas of digital signal, image and video processing. These include digital image/video coding and standards, wavelets and filter banks, image/video processing, denoising, super-resolution, error resilience and concealment, content-based image indexing and retrieval, and scene analysis and recognition. Prof. Ma has produced more than one hundred publications in well-known international journals (mainly, IEEE), conferences, and MPEG standardization meetings. He holds one USA patent on fast motion estimation algorithm.

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 is elected as a Distinguished Lecturer in the IEEE Circuits and Systems Society for a two-year term (2008-2009). He is Technical Program Co-Chair of two IEEE international conferences: the International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS) 2007, and the IEEE International Conference on Image Processing (ICIP) 2004, which is one of the flagship conferences of the IEEE Signal Processing Society. He was serving as Video Processing Track Co-Chair of the International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2007. Dr. Ma is currently serving as (Associate) Editor or Editorial Board Member of six international journals: the *IEEE Transactions on Image Processing* (2007~), *IEEE Transactions on Communications* (1997~), the *IEEE Transactions on Multimedia* (2002~), the *International Journal of Image and Graphics* (2002~), the *Journal of Visual Communication and Image Representation* (2005~), and *Research Letters in Signal Processing* (2008~). He is an elected member of three Technical Committees: *Image and Multidimensional Signal Processing* (IMDSP) Committee from the IEEE Signal Processing Society, *Multimedia Communications* Committee from the IEEE Communications Society, and *Digital Signal Processing* from the IEEE Circuits and Systems Society. He has been serving as Technical Program Committee member, reviewer and Session Chair of numerous international journals and conferences. He is Chairman of IEEE Signal Processing Singapore Chapter (2000-2002). He is a Senior Member of the IEEE and member of Eta Kappa Nu.