

### Authors' Biographical Statements

**Chen-Fu Chien** received B.S. with double majors in Industrial Engineering and Electrical Engineering from the National Tsing Hua University, Taiwan in 1990. He received M.S. and Ph.D. degrees in Industrial Engineering, with two minors in Statistics and Business, from the University of Wisconsin-Madison in 1994 and 1996, respectively. He was a Fulbright Scholar in UC Berkeley from 2002 to 2003. Dr. Chien is a Professor of Industrial Engineering and Engineering Management at the National Tsing Hua University. Since 2005, he has been on-leave to serve as Deputy Director of Industrial Engineering Division at Taiwan Semiconductor manufacturing Company (TSMC). Before joining TSMC, he has served as a Senior Consultant in Manufacturing Technology Center, TSMC and Industrial Technology Research Institute (ITRI), Taiwan. He is also a member of the Phi Tao Phi Honor Society, INFORMS, IIE, CIIE, and CIDS.

His research and development efforts center on modeling and analysis for semiconductor manufacturing, decision analysis, data mining, and manufacturing strategy. His research works appear in *Computers & I.E.*, *Decision Support Systems*, *Expert Systems with Applications*, *IEEE Trans. on Power Delivery*, *IEEE Trans. on Power Systems*, *IEEE Trans. on Semiconductor Manufacturing*, *Int. J. Production Economics*, *Int. J. of Production Research*, *J. of MCDA*, *J. of Intelligent Manufacturing*, *OR Spectrum*, and *R&D Management*. He is associate editor for *IEEE Transactions on Automation Science and Engineering* and also on the editorial board of several journals. He has served in the Steering Committee of Industrial Engineering and Management Division in National Science Council, Taiwan, since 2002. He received the Distinguished University-Industry Collaboration Award from the Ministry of Education, Best Research Awards and Tier 1 Principal Investigator (2005-2008) from National Science Council, Distinguished Young Faculty Research Award and Distinguished University-Industry Collaboration Award from the National Tsing Hua University, Best Engineering Paper Award by the Chinese Institute of Engineers,

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**Shao-Chung Hsu** received the B.S. in Industry Engineering and M.S. in Statistics from the National Tsing Hua University, Taiwan in 1989 and 1992, respectively. He is now a PhD candidate in Industrial Engineering at the National Tsing Hua University. Mr. Hsu is Manager of Strategy Program in the Industrial Engineering Division at the Taiwan Semiconductor manufacturing Company (TSMC). Before joining TSMC, Mr. Hsu has worked for Macronix International Co., Ltd. for more than 10 years, where he led a team that integrates the statistics, data mining, and information technology to support the activities of SPC, DOE and Engineering/Production Data Analysis System, and to provide company-wide consulting service on data analysis.