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## Editorial

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### Mitsuo Gen\*

Graduate School of Information, Production and Systems,  
Waseda University,  
Kitakyushu 808-0135, Japan  
E-mail: gen@waseda.jp  
\*Corresponding author

### Dongliang Daniel Sheu

Department of Industrial Engineering and Engineering Management,  
National Tsing Hua University,  
Hsinchu, Taiwan 30013, ROC  
E-mail: dsheu@ie.nthu.edu.tw

**Biographical notes:** Mitsuo Gen is a Professor in the Graduate School of Information, Production and Systems at Waseda University, Japan since April 2003. He received a PhD in Engineering from Kogakuin University in 1974 and a PhD in Informatics from Kyoto University in 2006. He was a Lecturer from 1974 to 1980, an Associate Professor from 1980 to 1987 and a Professor from 1987 to 2003 at Ashikaga Institute of Technology. He was a Visiting Associate Professor at the University of Nebraska-Lincoln, USA from 1981 to 1982 and a Visiting Professor at the University of California at Berkeley, USA from 1999 to 2000. His research interests include genetic algorithms, neural network, fuzzy logic and their applications to scheduling, network design, system reliability design, etc. He has authored several books like *Genetic Algorithms and Engineering Design*, John Wiley & Sons, New York (1997), *Genetic Algorithms and Engineering Optimization*, John Wiley & Sons, New York (2000) with Runwei Cheng and published papers for several decades in international journals.

Dongliang Daniel Sheu is a Professor at National Tsing Hua University in Taiwan since 1996. Before that, he had nine years of industrial experience in the electronic industries having worked with Hewlett-Packard, Motorola and Matsushita. He received a PhD in Manufacturing Engineering from UCLA and an MBA from Kellogg Graduate School of Management at Northwestern University. He also received a BSME from National Taiwan University and an MSME from the State University of New York at Buffalo. His areas of interests include design and manufacturing management, factory diagnosis, equipment management and TRIZ – Theory of Inventive Problem Solving.

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Intelligent Manufacturing System (IMS) based on Artificial Intelligence (AI) is a novel manufacturing environment which has been developed for the next generation of manufacturing and logistics system based on Information Technologies (IT). It consists of engineering design, process planning, manufacturing, production planning and scheduling, quality management and storage and retrieval functions combined with IT and AI technologies.

This Special Issue on *Intelligent Manufacturing Technology* is published in association with the Workshop on Intelligent Manufacturing and Logistics Systems (IML2005) held at Waseda University in Kitakyushu Science and Research Park during 2–4 August 2005. The IML2005 was intended to bring academia and industry together by providing a forum for the sharing of experience, best practices and innovative ideas on IMS based on AI and to strengthen relationships between Japan, Korea, China and Taiwan.

The nine papers included in this Special Issue were selected based on a rigorous review process. The guest editors of this Special Issue wish to congratulate the authors for their original contribution and thank the referees for their generous contributions of time and expertise to maintain the high quality of publication in the *International Journal of Manufacturing Technology and Management*. Finally, we would like to thank Dr. M.A. Dorgham, Editor-in-Chief of *International Journal of Manufacturing Technology and Management* for arranging this Special Issue and Mr. Edward Isaac, Inderscience for coordinating all of authors to check proofs timely.