

Professor Junzo Watada

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I Education

Dr. Junzo Watada was born at Osaka in 1945. He received his B.S. and M.S. degrees in electrical engineering from Osaka City University, Japan, and Dr. of Eng. degree by the research on fuzzy multivariate analysis from Osaka Prefecture University, Osaka, Japan.

II Profession

He is a Professor of Management Engineering at Graduate School of Information, Production & Systems, Waseda University since 2003, after having contributed for 13 years as a professor of Human Informatics and Knowledge Engineering, to the School of Industrial Engineering at Osaka Institute of Technology, Japan. He had been with Faculty of Business Administration, Ryukoku University for 8 years. Before moving to Academic, he was with Fujitsu Ltd. Co., where he worked on development of software systems as a senior system engineer for 7 years.

III Research Interests

His research interests are very broad including fuzzy system methodologies for data analysis, decision support systems and experts systems, financial engineering, macro-ergonomics. Recently he works actively on intelligent systems, genetic algorithms, neural networks, DNA computing, and so on. Especially he contributes in developing soft-computing methodologies for financial engineering and fuzzy multivariate analysis for analysis of economics and corporations, including facility assess management and brand strategy.

Also, he works on economical analysis of information technology industries in various countries and on survey and analysis of company management. Dr. Watada has developed fuzzy production function, fuzzy AR time-series analysis and fuzzy multivariant analyses, and applied them to economical analysis. Recently he applies DNA computing to the optimal parts allocation problem for Robot manufacturing and DNA informatics.

IV International Cooperation

He is a member of IFSA working committee, an advisory board of BISC Group, BISC Special Interest Group in Philosophy of Soft Computing, Helsinki University, Finland since 1996, an advisory board of Journal of Centre for Artificial Intelligence and Robotics, Malaysia since 1996, member of Czech-Japan Research Cooperation since 1998, a founding member, Japanese-Hungarian Integrated Intelligent Systems Laboratory(IISL) in Budapest, Hungary.

V Domestic Cooperation

He has been consulting and co-working with several corporations including Fuji Investment Management Co. Ltd., Fujitsu Ltd., Matsushita Electric, Sumitomo Metallurgy Corporation, Dentsu, Kansai Power Electronics, Konoike Construction, and so on methodologies of fuzzy systems, expert systems, data analysis, etc..

VI International Academic Contributions

He is the principal editor of International Journal of Biomedical Soft Computing and Human Sciences, ICIC Express Letters, and a co-editor of Asia Pacific Journal of Finance and Banking. He is also an associate editor of more than ten international journals such as Journal of Systems and Control Engineering, IMECHE part I, United Kingdom and of International Journal of Innovational Computing and Information Control (IJICIC), an honorary adviser and an editorial board of Review Journal for National Institute of Inventions. He has served as a chair, a co-chair or a member of an advisory committee, a co-chair or a member of an international program committee, a secretariat general, an organizing committee, organizers of sessions, etc. for various international conferences.

VII International Contributions to Education

Dr. Watada was a visiting professor at various universities and institutes over 16 countries including Purdue University, West Lafayette, University of Texas, Austin in USA, Tianjin University, Tsinghua University, P.R. CHINA, Indian Institute of Technology, Madras, India, Malaysia University of Science and Technology, Penang, Malaysia University of Technology, Kuala Lumpur, Malaysia University Saba, Kota Kinabaru in Malaysia, San Paulo University, Brazil, Research Institute of Thompson CRF, Paris, France, Polytechnic University of Bucharest in Romania, several universities at Taipei and so on.

Dr. Watada is contributing as an external examiner to Chinese University of Hong Kong for about 15 years and several universities in Malaysia for 8 years and as an advisory board committee to Malaysia University of Technology for five years and an assessment member of Research Grants Council of Hong Kong and of Research Grants Council of Czech Republic Science Academy for more than 20 years.

VIII Academic Activities

He was the President of Bio-Medical Fuzzy Systems Association (2001-2003). He was the Vice President of Japan Society for Fuzzy Theory and Systems for two years (1993-1995) and was a board committee of Japan Society for Fuzzy Theory and Systems, and also serve as the principal editor for its journal, and was the president of Japan Chapter of International Fuzzy System Association for two years (1993-1995) and is a board committee of Japan Society for Fuzzy Theory and Systems, and also served as the principal editor for its journal. And he contributes several journals as an editorial board. He is a member of IFSA, Japan Society for Fuzzy Theory and Intellectual Informatics, etc. He wrote more than 250 academic papers including journal and proceeding papers.

IX Awards

Dr. Watada received

- 1) the Contribution Award at ISIS2002 in Korea on August 25, 2001,
- 2) Henri Coanda Gold Medal in Romania on July 17, 2002,
- 3) Excellent Presentation Award of SCIS2002 at Tsukuba on October 21-25, 2002,
- 4) Board of Certification in Professional Ergonomics as Certified Professional Ergonomist by Japan Ergonomics Society on August 3, 2003,
- 5) Contribution Award, Biomedical Fuzzy Systems Association, November, 2004,
- 6) Fellow, Society of Japan Intelligent Informatics and Fuzzy Systems, January 10, 2005, and
- 7) Contribution Award, International Anniversary Symposium "Grigore C. Moisil" –SASM2005.

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