

Message from the Editor in Chief*

Keigo Watanabe[†]

I AM very pleased and honored to have an opportunity to publish a new journal entitled *Machine Intelligence and Robotic Control* (MIROC). The MIROC is new, quarterly journal covering the field of computer science, robotics, mechatronics, and electronics.

This journal focuses on machine intelligence and control with softcomputing or computational intelligence technologies, which are composed of neural networks, fuzzy reasoning, evolutionary computations and chaos, to assist in fostering the application of such softcomputing techniques to robotics and mechatronics. It is widely believed that such technologies will play a significant role in the development of intelligent robot system, machine system, and mechatronics system during the twenty-first century. Thus, this new journal gives readers the state of the art of all forms of robotics and mechatronics with softcomputing techniques. That is, MIROC will cover advances in intelligent robot, machine and control research, such as the latest techniques, applications, theoretical issues and novel approach to problems. The topics of interest to the journal include, but are not restricted to: distribution and cooperation, autonomous distribution, multi-agents, human interface, kansei and emotion, decision making, intelligent control, knowledge acquisition, vision, virtual reality, behavior-based control, fuzzy control, neural network, classifier system, genetic algorithms, genetic programming, evolutionary strategy, chaos, fractal, complex system, evolutionary hardware, optimization, adaptation, and learning algorithms including Q-learning.

My policy is to have world wide communication with many researchers in this field. I would appreciate it if people who have proposal for special issues in this journal, as well as paper submission, please contact me or any advisory editor, because this journal is definitely supported by many researchers in the world.

I am grateful to Mr. Akira Nomiya, who is a Representative Director of Nishinohon Soft Service Co., Ltd., Fukuoka Japan, and Mr. Kouji Hagihara, who is a Sub Manager of Network System Division, Nishinohon Soft

Service Co., Ltd., the advisory editors, and the members of the editorial board for their vital support. It is my hope that *Machine Intelligence and Robotic Control* will provide not only reports on the progress of new technologies but also the vision of a better life in the future.

Editor-in-Chief



Keigo Watanabe received B.E. and M.E. degrees in Mechanical Engineering from the University of Tokushima in 1976 and 1978, respectively, and the D.E. degree in Aeronautical Engineering from Kyushu University in 1984. From 1980 to March in 1985, he was a research associate in Kyushu University. From April 1985 to March 1990, he was an Associate Professor in the College of Engineering, Shizuoka University. From April 1990 to March 1993 he was an Associate Professor, and from April 1993 to March 1998 he was a full Professor in the Department of Mechanical Engineering at Saga University. From April 1998, he is now with the Department of Advanced Systems Control Engineering, Graduate School of Science and Engineering, Saga University.

His research interests are in stochastic adaptive estimation and control, robust control, neural network control, fuzzy control, genetic algorithms, and their applications to the robotic control. He has published more than 200 technical papers and is author or editor of 14 books, including *Adaptive Estimation and Control* (London: Prentice Hall, 1992), *Stochastic Large-Scale Engineering Systems* (New York: Marcel Dekker, 1992) and *Intelligent Control Based on Flexible Neural Networks* (Dordrecht: Kluwer, 1999). He is an active reviewer of many journals or transactions, and serves as editorial board members of *J. of Intelligent and Robotic Systems* and *J. of Knowledge-Based Intelligent Engineering Systems*.

He is a member of the Society of Instrument and Control Engineers, the Japan Society of Mechanical Engineers, the Japan Society for Precision Engineering, the Institute of Systems, Control and Information Engineers, the Japan Society for Aeronautical and Space Sciences, the Robotics Society of Japan, Japan Society for Fuzzy Theory and Systems, and IEEE.

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