

Dr. Engineering
Tetsuya Ogata

Dept. of Intelligence Science and Technology
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Born June 21, 1969

Career

- 2005-present Associate Professor / Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University, Japan
- 2003-2005 Lecturer / Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University, Japan
- 2001-2003 Research Scientist / Laboratory for Behavior and Dynamic Cognition, Brain Science Institute, RIKEN, Japan
- 1999-2001 Research Associate / Department of Mechanical Engineering, School of Mechanical Engineering, Waseda University, Japan
- 1997-1999 Research Fellow / Japan Society for the Promotion of Science (JSPS)

Research Interests

neural network, emotion model, humanoid robot, imitation learning, hybrid dynamical systems, symbol grounding, multi-modal information processing, open-ended human-robot interaction

Honors

- Best paper award of the Eighteenth International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, 2005
- Outstanding paper award from the Japan Society of Mechanical Engineering, 2001

Activities/Competence

- Member of program committee of IROS 2006
- Member of program committee of RSS 2006
- Member of program committee of CIRA 2006

Most Important Relevant Publications (Selected)

- [1] Ryunosuke YOKOYA, **Tetsuya OGATA**, Jun TANI, Kazunori KOMATANI, and Hiroshi G. OKUNO, "Experience Based Imitation Using RNNPB", *Proc. of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2006)*, Beijing, China, Sep. 2006.
- [2] **Tetsuya OGATA**, Yuya HATTORI, Hideki KOZIMA, Kazunori KOMATANI, and Hiroshi G. OKUNO, "Generation of Robot Motions from Environmental Sounds using Inter-modality Mapping by RNNPB", *Proc. of International Workshop on Epigenetic Robotics*, Paris, France, Sept. 2006.
- [3] **Tetsuya OGATA**, Hayato OHBA, Kazunori KOMATANI, Jun TANI and Hiroshi G. OKUNO, "Extracting Multi-Modal Dynamics of Objects using RNNPB", *Journal of Robotics and Mechatronics, Special Issue on Human Modeling in Robotics*, Vol.17, No.6, pp. 681-688, Dec. 2005.
- [4] Kenri KODAKA, **Tetsuya OGATA**, and Hiroshi G. OKUNO, "Walking with Body-sense in Virtual Space Using the Nonlinear Oscillator", *Proc. of IEEE International Conference on Systems, Man and Cybernetics (SMC 2005)*, pp.324-329, Hawaii, Oct. 2005.
- [5] **Tetsuya OGATA**, Shigeki SUGANO, and Jun TANI: Open-end Human-Robot Interaction from the Dynamical Systems Perspective -Mutual Adaptation and Incremental Learning, *Advanced Robotics*, VSP and Robotics Society of Japan, Vol.19, No. 6, pp. 651-670, July, 2005.
- [6] **Tetsuya OGATA**, Shigeki SUGANO, and Jun TANI: Acquisition of Motion Primitives of Robot in Human-Navigation Task -Towards Human Robot Interaction based on 'Quasi-Symbol', *Journal of Japanese Society for Artificial Intelligence*, Vol.20, No.3, pp. 188-196, March, 2005.
- [7] Yasuhisa HAYAKAWA, **Tetsuya OGATA**, and Shigeki SUGANO: Flexible Assembly Work Cooperating System based on Work State Identifications by Self-Organizing Map, *IEEE/ASME Transactions on Mechatronics*, Vol.9, No.3, pp.520-528, Sept. 2004.
- [8] **Tetsuya OGATA** and Shigeki SUGANO: Consideration of Emotion Model and Primitive Language of Robots, Chapter 1, FLSI-Vol.3 "What should be computed to understand and model brain function? -From Robotics, Soft Computing, Biology and Neuroscience to Cognitive Philosophy-", Editor: Tadashi Kitamura, *World Scientific Publishing Co.*, March 2001.
- [9] **Tetsuya OGATA**, Yoshihiro MATSUYAMA, and Shigeki SUGANO: Acquisition of the Internal Representation in Robots -Toward the Human Robot Communication Using the Primitive Language, *Advanced Robotics*, Vol.14, No.4, pp.277-291, VSP and Robotics Society of Japan, Sept. 2000.
- [10] **Tetsuya OGATA** and Shigeki SUGANO: Emotional Communication between Humans and the Autonomous Robot WAMOEBEA-2 (Waseda Amoeba) Which has the Emotion Model, *JSME International Journal, Series C: Mechanical Systems Machine Elements and Manufacturing*, Vol.43, No.3, pp. 568-574, Sept. 2000.