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Born June 8, 1975

Career

2006-present	Associate Professor / Research into Artifacts, Center for Engineering (RACE), The University of Tokyo, Japan
2005-2006	Lecturer/Assistant Professor / Science Integration Program - Humans, The University of Tokyo, Japan
2004-present	PRESTO Researcher / Precursory Research for Embryonic Science and Technology, Japan Science and Technology Agency (JST)
2003-2005	Specially Appointed Faculty / 21 COE Program, Graduate School of Information Science and Technology, The University of Tokyo, Japan
2001-2003	JSPS Research Fellow / Japan Society for the Promotion of Science (JSPS)

Research Interests

Her research focuses on modeling and simulation of human neural and cognitive function towards knowledge infrastructure for human-centered information systems and services. During her Ph.D. studies, she made contributions to the modeling, design and control of deformable robots consisting of electroactive polymer gels.

Honors

- Doctoral Scholarship Award from the Japan Society for the Promotion of Science (JSPS), 2001
- Young Investigator Award from the Robotics Society of Japan (RSJ), 2003.
- PRESTO Fellowship Award from the Japan Science and Technology Agency (JST), 2004.

Activities/Competence

- Editorial Board, Journal of Robotics Society of Japan, 2005-
- WIE Chief Secretary, IEEE Japan Council, 2006-
- General Chair, Women in Robotics Community, 2006-
- Program Committee; IEEE/RSJ International Conference on Intelligent Robots and Systems 2006, The 9th International Conference on Intelligent Autonomous Systems, Workshop on Gender and Interaction at Advanced Visual Interfaces 2006, etc.
- Secretary Committee, Society for Sociointelligence, 2005-
- Committee, Technical Committee on Soft Material of SICE, 2003-

Most Important Relevant Publications (Selected)

- [1] **M. Otake** and T. Takagi. Efferent copy activation and comparator inhibition model describes under-attribution and over-attribution in schizophrenic subjects, *Society for Neuroscience Abstract*, 2006.
- [2] **M. Otake** and T. Takagi. Reassembly and Interfacing Neural Models Registered on Biological Model Databases, *Genome Informatics*, vol. 16, no. 2, pp.76-85, 2005.
- [3] **M. Otake** and Y. Nakamura. Spinal Information Processing and its Application to Motor Learning Support, *Journal of Robotics and Mechatronics*, Vol. 17, No. 6, pp. 617-627, 2005.
- [4] **M. Otake** and Y. Nakamura. Anatomical Model of the Spinal Nervous System and its Application to the Coordination Analysis for Motor Learning Support System, In *Proceedings of the IEEE International Conference on Robotic Systems*, pp. 847 - 852, 2005.
- [5] **M. Otake**. Electroactive Polymer Gel Robots –Modeling and Control of Artificial Muscles, *Springer Tracts in Advanced Robotics*, Springer-Verlag, 2006.
- [6] **M. Otake**, Y. Nakamura, and H. Inoue. Pattern Formation Theory for Electroactive Polymer Gel Robots. In *Proceedings of the 2004 IEEE International Conference on Robotics and Automation*, pp. 2782-2787, 2004.
- [7] **M. Otake**, Y. Kagami, Y. Kuniyoshi, M. Inaba, and H. Inoue. Inverse Dynamics of Gel Robots made of Electroactive Polymer Gel. In *Proceedings of the 2003 IEEE International Conference on Robotics and Automation*, pp.2299-2304, 2003.
- [8] **M. Otake**, Y. Kagami, M. Inaba, and H. Inoue. Motion design of a starfish-shaped gel robot made of electro-active polymer gel. *Robotics and Autonomous Systems*, vol. 40, pp. 185-191, 2002.
- [9] **M. Otake**, Y. Kagami, Y. Kuniyoshi, M. Inaba, and H. Inoue. Inverse Kinematics of Gel Robots made of Electro-Active Polymer Gel. In *Proceedings of the 2002 IEEE International Conference on Robotics and Automation*, pp.3224-3229, 2002.
- [10] **M. Otake** et. al., Autonomous Collaborative Environment for Project Based Learning, *Intelligent Autonomous Systems 9* T. Arai et al. (Eds.) IOS Press, pp.756-763, 2006.