

Prof. Dr.
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Born January 18, 1954

Career

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| 2006-present | Professor of Graduate School of Engineering, Osaka University |
| 2000-2006 | Professor of Graduate School of Engineering, Hiroshima University |
| 1993-2000 | Professor of Faculty of Engineering, Hiroshima University |
| 1990-1993 | Associate Professor of Department of Computer Science, Kyushu Institute of Technology |
| 1981-1990 | Researcher, and Senior Researcher, Mechanical Engineering Laboratory |

Research Interests

Hyper human robotics, Medical application of hyper human technology, Non-contact impedance sensing, Tactile based active sensing

Honours

The Outstanding Young Engineer Award from the Japan Society of Mechanical Engineers (JSME) 1983
The Best Paper Award from the Robotics Society of Japan (RSJ) 1994
The Best Paper Award from the Society for Instrument and Control Engineers (SICE) 1996
The Humboldt Research Award from Humboldt Foundation 1997
The Best Manipulation Paper Award, IEEE ICRA 2000
The Best Conference Paper Award, IEEE ISATP 2001
The Best Paper Award from the Society for Instrument and Control Engineers (SICE) 2002
The Best Conference Paper Award, Finalists, IEEE ICRA 2003
The Best Conference Paper Award, The Japan Society of Computer Aided Surgery 2004
King-Sun Fu Memorial Best Transactions Paper Award, IEEE RAS 2004
The Best Conference Paper Award, IEEE ICIA 2005
IEEE Fellow 2006

Activities/Competence

Project leader: COE program, Hyper Human Technology toward the 21 st Century Industrial Revolution, 2004-
Director: Hyper Human Technology Research Project Center, 2004-
Vice President: IEEE Robotics and Automation Society, 2004-2005
AdCom Member: IEEE Robotics and Automation Society, 2003
Editor-in-Chief: Journal of Robotics and Mechatronics, 2000-
Editorial Boards: IEEE Robotics and Automation Society, Magazine, 1999-2001

Most Important Relevant Publications (Selected)

- [1] T. Kawahara, S. Tanaka, and **M. Kaneko**. Non-Contact Stiffness Imager. The International Journal of Robotics Research, Vol.25, No.5/6, pp.537-549, 2006.
- [2] M. Higashimori, **M. Kaneko**, A. Namiki, and M. Ishikawa. Design of the 100G Capturing Robot Based on Dynamic Preshaping. Transactions on The International Journal of Robotics Research, vol.24, no.9, pp.743-753, 2005.
- [3] T. Kawahara and **M. Kaneko**. Non-Contact Stiffness Imager for Medical Application, Proc. of the IEEE Int. Conf. on Information Acquisition, pp350-355, 2005. **The Best Conference Paper Award**
- [4] O. Fukuda, T. Tsuji, **M. Kaneko**, and A. Otsuka. A Human-Assisting Manipulator Teleoperated by EMG Signals and Arm Motions. IEEE Transactions on Robotics and Automation, Vol.19, No.2, pp.210-222, 2003. **King-Sun Fu Memorial Best Transactions Paper Award**
- [5] K. Harada, and **M. Kaneko**. A Sufficient Condition for Manipulation of Envelope Family. IEEE Transactions on Robotics and Automation, Vol.18, No.4, pp.57-64, 2002
- [6] K. Harada, J. Park, and **M. Kaneko**. Manipulation of Enveloped Object with Elasticity at Contact Points. Proc. of IEEE Int. Symp. on Assembly and Task Planning(ISATP2001), pp.190-95, 2001 **The Best Conference Paper Award**
- [7] **M. Kaneko**, N. Kanayama, and T. Tsuji. Vision-Based Active Sensor Using a Flexible Beam. IEEE/ASME Transactions on Mechatronics, Vol.6, No.1, pp.1-11, 2001.
- [8] **M. Kaneko**, K. Harada, and T. Tsuji . A Sufficient Condition for Manipulation of Envelope Family. Proceedings of IEEE International Conference on Robotics and Automation, pp.1060-1067, 2000. **The Best Manipulation Paper Award**
- [9] **M. Kaneko**, N. Kanayama, and T. Tsuji. Active Antenna for Contact Sensing, IEEE Transactions on Robotics and Automation. Vol. 14, No. 2, pp. 278-291, 1998.
- [10] **M. Kaneko** and K. Tanie. Contact Point Detection for Grasping an Unknown Object Using Self-Posture Changeability. IEEE Transactions on Robotics and Automation, Vol.10, No.3, pp.355-367, 1994.