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Born February 14, 1970

Career

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| 2003-present | Associate Professor / Department of Artificial Complex Systems Engineering, Hiroshima University, Hiroshima, Japan |
| 2002-2003 | Associate Professor / Department of Electrical and Electronic Engineering Tokyo University of Agriculture and Technology, Tokyo, Japan |
| 2000-2002 | Lecturer / Department of Electrical and Electronic Engineering Tokyo University of Agriculture and Technology, Tokyo, Japan |
| 1996-2000 | Assistant Professor / Department of Mathematical Engineering and Information Physics, The University of Tokyo, Tokyo, Japan |

Research interests

high speed robot vision, real-time image processing, vision chip, integrated sensing system, sensor fusion, dynamic sensing, robot control using visual feedback, vision-based human interface, bio-behavior mining, automated inspection in factory

Honours

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| 2005 | ROBOMEC Award from the Robotics and Mechatronics Division of the Japan Society of Mechanical Engineers |
| 2005 | Best Paper Award in 3D Conference 2004 |
| 2005 | Best Paper Award in the Eleventh Robotics Symposia |
| 2004 | Best Technique Award, Tomoda Award from Society of Instrument and Control Engineers |
| 2000 | LSI IP Design Award, IP Award |
| 2000 | LSI IP Design Award, Best IP Award |
| 2000 | Encouragement award from IEEE Solid-State Circuits Society Japan Chapter |
| 1998 | The Outstanding Young Engineer Award from Robotics Society of Japan |
| 1998 | Best Paper Award from Robotics Society of Japan |
| 1998 | Best Paper Award in the Third Robotics Symposia |
| 1998 | Award for Progress in Advanced Automation Technology |
| 1996 | Best Video Award Finalist, IEEE Int. Conf. on Robotics and Automation |

Most Important Relevant Publications (Selected):

- **Idaku Ishii**, Kenkichi Yamamoto, and Munehiro Kubozono : Higher Order Autocorrelation Vision Chip, IEEE Transactions on Electron Devices, Vol.53, No.8, pp.1797-1804, 2006.
- Kenkichi Yamamoto, Munehiro Kubozono, and **Idaku Ishii**: Development of Higher Order Autocorrelation Vision Chip, Proc. the IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp.3258-3263, 2005.
- **Idaku Ishii**, Kazuki Kato, Shogo Kurozumi, Hiroshi Nagai, Akihiko Numata and Kenji Tajima : Development of a Mega-pixel and Milli-second Vision System using Intelligent Pixel Selection, Proc. 2004 1st IEEE Technical Exhibition Based Conference on Robotics and Automation, pp.9-10, 2004.
- Mitsuru Higashimori, Hie-Yong Jeong, **Idaku Ishii**, Akio Namiki, Masatoshi Ishikawa and Makoto Kaneko: A New Four-Fingered Robot Hand with Dual Turning Mechanism, Proc. the IEEE Int. Conf. on Robotics and Automation, pp.2690-2695, 2005.
- Kenji Tajima, Akihiko Numata and **Idaku Ishii** : Development of a high-resolution, high-speed vision system using CMOS image sensor technology enhanced by intelligent pixel selection technique, Optics East 2004 : MACHINE VISION AND ITS OPTO-MECHATRONIC APPLICATIONS, Proc. SPIE Vol. 5603, pp.215-224, 2004.
- Shingo Kagami, Takashi Komuro, **Idaku Ishii**, Masatoshi Ishikawa: A Real-Time Visual Processing System Using a General-Purpose Vision Chip, Proc. IEEE Int. Conf. on Robotics and Automation, pp.1229-1234, 2002.
- Yoshihiro Nakabo, **Idaku Ishii**, and Masatoshi Ishikawa: 3D Tracking Using Two High-Speed Vision Systems, Proc. IEEE/RSJ Int. Conf. Intelligent Robots and Systems, pp.360-365, 2002.
- **Idaku Ishii** and Masatoshi Ishikawa: A Line Extraction Algorithm for High Speed Vision, Proc. 4th Asian Conf. on Computer Vision (ACCV2000), pp.330-335, 2000.
- Takashi Komuro, **Idaku Ishii**, Masatoshi Ishikawa, and Atsushi Yoshida : High Speed Target Tracking Vision Chip, Proc. Int. Conf. on Computer Architecture for Machine Perception, pp.49-56, 2000.
- **Idaku Ishii**, Takashi Komuro, and Masatoshi Ishikawa : Method of Moment Calculation for a Digital Vision Chip System, Proc. Int. Conf. on Computer Architecture for Machine Perception, pp.41-48, 2000.
- Hiromasa Oku, **Idaku Ishii**, and Masatoshi Ishikawa : Tracking a Protozoon Using High-Speed Visual Feedback, Proc. Int. IEEE-EMBS Special Topic Conf. on Microtechnologies in Medicine and Biology, pp.156-159, 2000