

## **Atsushi Yamashita, Ph.D.**

Professor

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### **Education**

BE in Precision Machinery Engineering, The University of Tokyo, 1996.

ME in Precision Machinery Engineering, The University of Tokyo, 1998.

PhD in Precision Machinery Engineering, The University of Tokyo, 2001.

### **Professional Career**

2022-now: Professor in Department of Human and Environmental Engineered Studies, The University of Tokyo

2011-2022: Associate Professor in Department of Precision Engineering, The University of Tokyo

2008-2011: Associate Professor in Department of Mechanical Engineering, Shizuoka University

2006-2007: Visiting Associate in Department of Mechanical Engineering, California Institute of Technology

2001-2008: Assistant Professor in Department of Mechanical Engineering, Shizuoka University

1998-2001: Junior Research Associate in the RIKEN (Institute of Physical and Chemical Research)

### **Research Interests**

Robotics, Robot Vision, Computer Vision, Image Processing, Robot Motion Planning, Computer Graphics

### **Awards**

- 1) JSPE Takagi Award, March 2021.
- 2) President's Award for Good Practice in Online Lectures, The University of Tokyo, March 2021.
- 3) Yaramaika Tokubetsu Award, Suzuki Foundation, February 2021.
- 4) Best Paper Award, 5th International Conference on NeuroRehabilitation (ICNR2020), October 2020.
- 5) Best Paper Award, 2020 IEEE/SICE International Symposium on System Integration (SII2020), January 2020.
- 6) Best Presentation Award, 19th Annual Conference of System Integration Division, Society of Instrument and Control Engineers, March 2019.
- 7) Dean's Award (Research), School of Engineering, The University of Tokyo, February 2019.
- 8) JRM Best Paper Award, December 2018.
- 9) Best Paper Award, FA Foundation, December 2018.
- 10) JSME Medal for Outstanding Paper, The Japan Society of Mechanical Engineers, April 2018.
- 11) System Integration Award for Outstanding Presentation, System Integration Division, The Society of Instrument and Control Engineers, December 2017.
- 12) JSME Medal for Outstanding Paper, The Japan Society of Mechanical Engineers, April 2017.
- 13) Best Paper Award, International Workshop on Advanced Image Technology 2017 (IWAIT2017), January 2017.
- 14) Best Presentation Award, 17th Annual Conference of System Integration Division, Society of Instrument and Control Engineers, December 2016.

- 15) Best Paper Award, FA Foundation, December 2016.
- 16) Best Teaching Award, Faculty of Engineering, The University of Tokyo, December 2016.
- 17) Best Poster Award, MHS2016 (2016 International Symposium on Micro-Nano Mechatronics and Human Science), November 2016.
- 18) Best Conference Paper Award Finalist, 14th International Conference on Intelligent Autonomous Systems (IAS-14), July 2016.
- 19) Best Paper Award, Japan Society for Precision Engineering, March 2016.
- 20) Best Presentation Award, 16th Annual Conference of System Integration Division, Society of Instrument and Control Engineers, December 2015.
- 21) Honorable Mention, ICAM2015 (6th International Conference on Advanced Mechatronics), December 2015.
- 22) Best Paper Award, ICAM2015 (6th International Conference on Advanced Mechatronics), December 2015.
- 23) Best Poster Award, MHS2015 (2015 International Symposium on Micro-Nano Mechatronics and Human Science), November 2015.
- 24) Best Paper Award, The Society of Instrument and Control Engineers, October 2015.
- 25) Best Paper Award, FA Foundation, December 2014.
- 26) Best Presentation Award in Rescue Robotics Session, 14th Annual Conference of System Integration Division, Society of Instrument and Control Engineers, December 2013.
- 27) JSME Education Award, Distinguished Text Book of “Robotics” and Improvement of Educational Methods, The Japan Society of Mechanical Engineers, April 2013.
- 28) Best Presentation Award in Rescue Robotics Session, 13rd Annual Conference of System Integration Division, Society of Instrument and Control Engineers, December 2012.
- 29) Funai Award, Funai Foundation for Information Technology, May 2011.
- 30) Certificate of Merit for ROBOMECH Outstanding Research Activity, Robotics and Mechatronics Division, The Japan Society of Mechanical Engineers, May 2011.
- 31) Best Paper Award, 4th Asia International Symposium on Mechatronics (AISM2010), December 2010.
- 32) Best Paper Award, 15th Robotics Symposia, March 2010.
- 33) Kiso Motohiro Award, International Rescue System, January 2009.
- 34) Takayanagi-Kenkyu-Shorei Award, Hamamatsu-Denshi-Kogaku-Shoreikai, December 2007.
- 35) Young Investigation Excellence Award, Robotics Society of Japan, September 2006.
- 36) Best Paper Presentation Award, Institute of Electrical Engineers of Japan, September 2006.
- 37) Certificate of Merit for Best Presentation, Robotics and Mechatronics Division, The Japan Society of Mechanical Engineers, June 2005.
- 38) Young Investigation Excellence Award, Institute of Image Information and Television Engineers of Japan, December 2004.
- 39) Best Presentation Award in Rescue Robotics Session, 3rd Annual Conference of System Integration Division, Society of Instrument and Control Engineers, December 2002.
- 40) Ishi-Gakujyutu-Shorei Award by Sogo-Kenkyu-Shoreikai, March 2001 (Awarded for outstanding PhD thesis in Faculty of Engineering, The University of Tokyo).
- 41) Hatakeyama Award by Japan Society of Mechanical Engineers, March 1996 (Given to the Best Student of Department of Precision Machinery Engineering, The University of Tokyo).

### **Membership of Academic Societies**

- 1) Japan Society for Precision Engineering, JSPE (1996-)
- 2) Robotics Society of Japan, RSJ (1997-)
- 3) The Institute of Electrical and Electronics Engineers, IEEE (2000-)

- 4) The Institute of Electronics, Information and Communication Engineers, IEICE (2002-)
- 5) The Japan Society of Mechanical Engineers, JSME (2003-)
- 6) The Institute of Electrical Engineers of Japan, IEEJ (2004-)
- 7) Information Processing Society of Japan, IPSJ (2004-)
- 8) The Institute of Image Information and Television Engineers, ITE (2004-)
- 9) The Society of Instrument and Control Engineers, SICE (2005-)
- 10) Association for Computing Machinery, ACM (2009-)
- 11) Society for Serviceology (2012-)
- 12) The Society of Automotive Engineers of Japan, JSAE (2017-)
- 13) Japan Society of Civil Engineering, JSCE (2021-)

### **Academic Activities**

- 1) Publication Co-chair, 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2013) (2013/11/03~2013/11/07)
- 2) Program Chair, 2015 International Conference on Advanced Mechatronics (ICAM2015) (2015/12/05~2015/12/08)
- 3) General Co-chair, 1st International Symposium on Embodied-Brain Systems Science (EmboSS2016) (2016/05/08~2016/05/09)
- 4) Program Chair, 2016 IEEE International Conference on Robotics and Biomimetics (ROBIO2016) (2016/12/03~2016/12/07)
- 5) Session Organizer (Consumer Electronics Meets Robotics), 2019 IEEE 8th Global Conference on Consumer Electronics (GCCE2019) (2019/10/15~2019/10/18)

### **Reviewed Papers**

- 1) Atsushi Yamashita, Jun Ota, Kou Kawano, Masaki Fukuchi, Tamio Arai and Hajime Asama: "Motion Planning for Cooperative Manipulation of Object by Multiple Mobile Robots", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 121-C, No. 3, pp. 549-556, May 2001, in Japanese.
- 2) Atsushi Yamashita, Tatsuya Kanazawa, Hajime Asama, Hayato Kaetsu, Isao Endo, Tamio Arai and Kazumi Sato: "Development of a Holonomic Omni-Directional Mobile Robot with Step-Climbing Ability", Journal of Robotics and Mechatronics, Vol. 13, No. 2, pp. 160-167, April 2001. [doi:10.20965/jrm.2001.p0160]
- 3) Atsushi Yamashita, Masaki Fukuchi, Jun Ota, Tamio Arai and Hajime Asama: "Motion Planning for Cooperative Transportation of a Large Object by Multiple Mobile Robots", Transactions of the Japan Society of Mechanical Engineers (Series C), Vol. 68, No. 665, pp. 165-172, January 2002, in Japanese. [doi:10.1299/kikaic.68.165]
- 4) Masayuki Kuramoto, Atsushi Yamashita, Toru Kaneko and Kenjiro T. Miura: "Removal of Adherent Waterdrops in Images Causing View Disturbance", The Journal of The Institute of Image Information and Television Engineers, Vol. 56, No. 5, pp. 853-857, May 2002, in Japanese. [doi:10.3169/itej.56.853]
- 5) Atsushi Kawarago, Atsushi Yamashita, Toru Kaneko and Kenjiro T. Miura: "Character Recognition for Books with Curved Surface using a Stereo Vision System", The Journal of The Institute of Image Information and Television Engineers, Vol. 56, No. 5, pp. 858-862, May 2002, in Japanese. [doi:10.3169/itej.56.858]
- 6) Kenjiro T. Miura, Junji Sone, Atsushi Yamashita, Toru Kaneko, Minoru Ueda and Minetada Osano: "Adaptive Refinement for B-spline Subdivision Curves", The Journal of Three Dimensional Images, Vol. 16, No. 4, pp. 74-78, December 2002.
- 7) Atsushi Yamashita, Tamio Arai, Jun Ota and Hajime Asama: "Motion Planning of Multiple Mobile Robots

- for Cooperative Manipulation and Transportation", IEEE Transactions on Robotics and Automation, Vol. 19, No. 2, pp. 223-237, April 2003. [doi:10.1109/TRA.2003.809592]
- 8) Atsushi Yamashita, Hajime Asama, Tamio Arai, Jun Ota and Toru Kaneko: "A Survey on Trends of Mobile Robot Mechanisms", The Journal of the Robotics Society of Japan, Vol. 21, No. 3, pp. 282-292, April 2003, in Japanese. [doi:10.7210/jrsj.21.282]
  - 9) Atsushi Yamashita, Toru Kaneko, Shinya Matsushita, Kenjiro T. Miura and Suekichi Isogai: "Camera Calibration and 3-D Measurement with an Active Stereo Vision System for Handling Moving Objects", Journal of Robotics and Mechatronics, Vol. 15, No. 3, pp. 304-313, June 2003. [doi:10.20965/jrm.2003.p0304]
  - 10) Atsushi Yamashita, Toru Kaneko, Masaki Nishimura and Kenjiro T. Miura: "Restoration of Deteriorated Images in Contrary Weather by Changing the Camera Direction -Removal of View-Disturbing Waterdrops in Images by Using a Pan-Tilt Camera System-", The Journal of The Institute of Image Information and Television Engineers, Vol. 57, No. 10, pp. 1347-1353, October 2003, in Japanese. [doi:10.3169/itej.57.1347]
  - 11) Kenjiro T. Miura, Masashi Adachi, Tsuneo Ikedo, Atsushi Yamashita and Toru Kaneko: "View-Dependent Refinement by Two-Stepped Catmull-Clark Subdivision", The Journal of Three Dimensional Images, Vol. 17, No. 4, pp. 33-38, December 2003.
  - 12) Atsushi Yamashita, Toru Kaneko, Shinya Matsushita and Kenjiro T. Miura: "Region Extraction with Chromakey Using Stripe Backgrounds", IEICE Transactions on Information and Systems, Vol. 87-D, No. 1, pp. 66-73, January 2004.
  - 13) Atsushi Yamashita, Toru Kaneko, Masaki Nishimura and Kenjiro T. Miura: "Removal of View-Disturbing Waterdrops in Images Using a Pan-Tilt Camera", The Journal of Three Dimensional Images, Vol. 18, No. 1, pp. 47-52, March 2004.
  - 14) Atsushi Yamashita, Akihisa Nishimoto, Toru Kaneko and Kenjiro T. Miura: "Automatic Generation of Stereogram by Using Stripe Backgrounds", The Journal of Three Dimensional Images, Vol. 18, No. 1, pp. 53-58, March 2004.
  - 15) Atsushi Yamashita, Tomoaki Harada, Toru Kaneko and Kenjiro T. Miura: "Virtual Wiper -Removal of Adherent Noises from Images of Dynamic Scenes by Using a Pan-Tilt Camera-", Advanced Robotics, Vol. 19, No. 3, pp. 295-310, March 2005. [doi:10.1163/1568553053583643]
  - 16) Susumu Kato, Atsushi Yamashita, Toru Kaneko and Kenjiro T. Miura: "Three-dimensional Sensing in Underwater Environments with a Stereo Camera System", The Journal of Three Dimensional Images, Vol. 19, No. 4, pp. 102-107, December 2005.
  - 17) Atsushi Yamashita, Takahiro Hara and Toru Kaneko: "Hammering Test with Image and Sound Signal Processing", Transactions of the Japan Society of Mechanical Engineers (Series C), Vol. 72, No. 715, pp. 772-779, March 2006, in Japanese. [doi:10.1299/kikaic.72.772]
  - 18) Atsushi Yamashita, Etsukazu Hayashimoto and Toru Kaneko: "3-D Shape Measurement of Objects in Liquid with a Laser Range Finder", Transactions of the Japan Society of Mechanical Engineers (Series C), Vol. 72, No. 717, pp. 1506-1513, May 2006, in Japanese. [doi:10.1299/kikaic.72.1506]
  - 19) Yuu Tanaka, Atsushi Yamashita, Toru Kaneko and Kenjiro T. Miura: "Removal of Adherent Waterdrops from Images Acquired with a Stereo Camera System", IEICE Transactions on Information and Systems, Vol. 89-D, No. 7, pp. 2021-2027, July 2006.
  - 20) Hiroki Agata, Atsushi Yamashita and Toru Kaneko: "Chroma Key Using a Checker Pattern Background", IEICE Transactions on Information and Systems, Vol. 90-D, No. 1, pp. 242-249, January 2007.
  - 21) Atsushi Yamashita, Hirokazu Higuchi and Toru Kaneko: "3-D Measurement of Objects in Water Using the Light Stripe Projection Method", Journal of the Japan Society for Precision Engineering, Vol. 73, No. 2, pp. 265-269, February 2007, in Japanese. [doi:10.2493/jjspe.73.265]

- 22) Atsushi Yamashita, Tomoaki Harada and Toru Kaneko: "Three-Dimensional Environment Modeling from Images Acquired with an Omni-Directional Camera Mounted on a Mobile Robot by Structure from Motion", Transactions of the Japan Society of Mechanical Engineers (Series C), Vol. 73, No. 726, pp. 512-519, February 2007, in Japanese. [doi:10.1299/kikaic.73.512]
- 23) Atsushi Yamashita, Hiroki Agata and Toru Kaneko: "Stripe Chromakey Using Active Contour Models", The Journal of The Institute of Image Information and Television Engineers, Vol. 61, No. 2, pp. 189-197, February 2007, in Japanese. [doi:10.3169/itej.61.189]
- 24) Atsushi Yamashita, Masayuki Kuramoto and Toru Kaneko: "Removal of Adherent Noises in Images by Using Multiple Cameras", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 127-C, No. 4, pp. 480-488, April 2007, in Japanese. [doi:10.1541/ieejjeiss.127.480]
- 25) Isao Fukuchi, Atsushi Yamashita, Toru Kaneko and Kenjiro T. Miura "Removing Adherent Noise from Image Sequences in Rainy Weather by Spatio-Temporal Image Processing", The Journal of The Institute of Image Information and Television Engineers, Vol. 62, No. 5, pp. 771-777, May 2008, in Japanese. [doi:10.3169/itej.62.771]
- 26) Atsushi Yamashita, Masayuki Kuramoto and Toru Kaneko: "Removal of Adherent Noises in Images by Using Multiple Cameras", Electrical Engineering in Japan, Vol. 164, No. 3, pp. 50-59, August 2008. [doi:10.1002/eej.20697]
- 27) Atsushi Yamashita, Takahiro Hara and Toru Kaneko: "Hammering Test with Integration of Image and Sound Signal Processing", Journal of Environment and Engineering, Vol. 3, No. 2, pp. 363-373, 2008. [doi:10.1299/jee.3.363]
- 28) Ryosuke Kawanishi, Atsushi Yamashita and Toru Kaneko: "Three-Dimensional Environment Model Construction from an Omnidirectional Image Sequence", Journal of Robotics and Mechatronics, Vol. 21, No. 5, pp. 574-582, October 2009. [doi:10.20965/jrm.2009.p0574]
- 29) Ryosuke Kawanishi, Atsushi Yamashita and Toru Kaneko: "Three-dimensional Environment Modeling Based on Structure From Motion with Feature Point and Edge Information in Omnidirectional Image Sequence", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 130-C, No. 9, pp. 1494-1503, September 2010, in Japanese. [doi:10.1541/ieejjeiss.130.1494]
- 30) Kenki Matsui, Atsushi Yamashita and Toru Kaneko: "Self-Localization and 3-D Model Construction of Pipe by Rangefinder Constructed with Omni-Directional Laser and Omni-Directional Camera", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 130-C, No. 9, pp. 1504-1512, September 2010, in Japanese. [doi:10.1541/ieejjeiss.130.1504]
- 31) Noriko Nagata, Hidehiro Ohki, Kunihiro Kato, Hiroyasu Koshimizu, Ryusuke Sagawa, Takayuki Fujiwara, Atsushi Yamashita and Manabu Hashimoto: "Current Issues and Trends on Multi-Dimensional Sensing Technologies in Digital Media", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 131-D, No. 4, pp. 433-440, April 2011, in Japanese. [doi:10.1541/ieejias.131.433]
- 32) So Kuno, Atsushi Yamashita and Toru Kaneko: "Assisting System in Touch-Panel Operation Using Stereo Camera", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 131-D, No. 4, pp. 458-465, April 2011, in Japanese. [doi:10.1541/ieejias.131.458]
- 33) Rie Miyaki, Atsushi Yamashita and Toru Kaneko: "Color Information Presentation for Color Vision Defectives by Using a Projector Camera System", The Transactions of The Institute of Electrical Engineers of Japan, Vol. 131-D, No. 4, pp. 497-504, April 2011, in Japanese. [doi:10.1541/ieejias.131.497]
- 34) Atsushi Yamashita, Masaaki Kitaoka and Toru Kaneko: "Motion Planning of Biped Robot Equipped with Stereo Camera Using Grid Map", International Journal of Automation Technology, Vol. 5, No. 5, pp. 639-647, September 2011. [doi:10.20965/ijat.2011.p0639]
- 35) Ryosuke Kawanishi, Atsushi Yamashita and Toru Kaneko: "Construction of 3-D Environment Model based

- on Automatic Baseline Determined Structure from Motion Constrained by Point and Line Features by Using Omnidirectional Camera", *The Journal of the Robotics Society of Japan*, Vol. 30, No. 4, pp. 399-410, May 2012, in Japanese. [doi:10.7210/jrsj.30.399]
- 36) Guanghui Li, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Moving Task Allocation and Reallocation Method Based on Body Expansion Behaviour for Distributed Multi-robot Coordination", *International Journal of Mechatronics and Automation*, Vol. 2, No. 4, pp. 240-261, 2012. [doi:10.1504/IJMA.2012.050495]
  - 37) Ryosuke Kawanishi, Atsushi Yamashita, Toru Kaneko and Hajime Asama: "Parallel Line-based Structure from Motion by Using Omnidirectional Camera in Textureless Scene", *Advanced Robotics*, Vol. 27, No. 1, pp. 19-32, January 2013. [doi:10.1080/01691864.2013.751160]
  - 38) Gakuto Masuyama, Atsushi Yamashita and Hajime Asama: "Reinforcement Learning Based on Intrinsic Motivation and Temporal Abstraction via Transformation Invariance", *Transactions of the Japan Society of Mechanical Engineers (Series C)*, Vol. 79, No. 798, pp. 289-303, February 2013, in Japanese. [doi:10.1299/kikaic.79.289]
  - 39) Yusuke Tamura, Shunsuke Hamasaki, Atsushi Yamashita and Hajime Asama: "Collision Avoidance of Mobile Robot Based on Prediction of Human Movement According to Environments", *Transactions of the Japan Society of Mechanical Engineers (Series C)*, Vol. 79, No. 799, pp. 617-628, March 2013, in Japanese. [doi:10.1299/kikaic.79.617]
  - 40) Tatsuya Naruse, Atsushi Yamashita, Toru Kaneko and Yuichi Kobayashi: "3D Measurement of Objects in Water Using Fish-eye Stereo Camera", *Journal of the Japan Society for Precision Engineering*, Vol. 79, No. 4, pp. 344-348, April 2013, in Japanese. [doi:10.2493/jjspe.79.344]
  - 41) Wataru Kumahara, Gakuto Masuyama, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Mobile Robot Navigation Based on Local Route Information and Pedestrians' Flow", *Journal of the Japan Society for Precision Engineering*, Vol. 79, No. 4, pp. 349-355, April 2013, in Japanese. [doi:10.2493/jjspe.79.349]
  - 42) Guanghui Li, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Effective Improved Artificial Potential Field Based Regression Search Method for Autonomous Mobile Robot Path Planning", *International Journal of Mechatronics and Automation*, Vol. 3, No. 3, pp. 141-170, 2013. [doi:10.1504/IJMA.2013.055612]
  - 43) Yusuke Tamura, Yoshitaka Terada, Atsushi Yamashita and Hajime Asama, "Modelling Behaviour Patterns of Pedestrians for Mobile Robot Trajectory Generation", *International Journal of Advanced Robotic Systems*, Vol. 10, 310, pp. 1-11, 2013. [doi:10.5772/56668]
  - 44) Ryuho Kataoka, Yoshizumi Miyoshi, Kai Shigematsu, Donald Hampton, Yoshiki Mori, Takayuki Kubo, Atsushi Yamashita, Masayuki Tanaka, Toshiyuki Takahei, Taro Nakai, Hiroko Miyahara and Kazuo Shiokawa: "Stereoscopic Determination of All-sky Altitude Map of Aurora Using Two Ground-based Nikon DSLR Cameras", *Annales Geophysicae*, Vol. 31, No. 9, pp. 1543-1548, September 2013. [doi:10.5194/angeo-31-1543-2013]
  - 45) Hiroto Ibe, Atsushi Yamashita, Toru Kaneko and Yuichi Kobayashi: "3D Measurement of Submerged Object in Transparent Vessel Using Laser Range Finder Mounted on Manipulator", *The Journal of The Institute of Image Information and Television Engineers*, Vol. 67, No. 11, pp. J379-J387, November 2013, in Japanese. [doi:10.3169/itej.67.J379]
  - 46) Wataru Kumahara, Gakuto Masuyama, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Navigation System for Mobile Robot Based on Pedestrian Flow under Dynamic Environment", *Transactions of the Society of Instrument and Control Engineers*, Vol. 50, No. 1, pp. 58-67, January 2014, in Japanese. [doi:10.9746/sicetr.50.58]
  - 47) Qi An, Yuki Ishikawa, Junki Nakagawa, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita and Hajime

- Asama: "Measurement of Just Noticeable Difference of Hip Joint for Implementation of Self-efficacy: In Active and Passive Sensation and in Different Speed", *Advanced Robotics*, Vol. 28, No. 7, pp. 505-511, January 2014. [doi:10.1080/01691864.2013.876938]
- 48) Masashi Awai, Atsushi Yamashita, Takahito Shimizu, Toru Kaneko, Yuichi Kobayashi and Hajime Asama: "Development of Mobile Robot System Equipped with Camera and Laser Range Finder Realizing HOG-Based Person Following and Autonomous Returning", *Journal of Robotics and Mechatronics*, Vol. 26, No. 1, pp. 68-77, February 2014. [doi:10.20965/jrm.2014.p0068]
- 49) Qi An, Yuki Ishikawa, Tetsuro Funato, Shinya Aoi, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama: "Muscle Synergy Analysis of Human Standing-up Motion in Different Seat Heights and Speeds", *Transactions of the Society of Instrument and Control Engineers*, Vol. 50, No. 8, pp. 560-568, August 2014, in Japanese. [doi:10.9746/sicetr.50.560]
- 50) Kazuhiro Chayama, Akira Fujioka, Kenji Kawashima, Hiroshi Yamamoto, Yasushi Nitta, Chikao Ueki, Atsushi Yamashita and Hajime Asama: "Technology of Unmanned Construction System in Japan", *Journal of Robotics and Mechatronics*, Vol. 26, No. 4, pp. 403-417, August 2014. [doi:10.20965/jrm.2014.p0403]
- 51) Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Automated Recognition of Material Condition Using Boosting Algorithm in Hammering Test", *Journal of the Japan Society for Precision Engineering*, Vol. 80, No. 9, pp. 844-850, September 2014, in Japanese. [doi:10.2493/jjspe.80.844]
- 52) Kohei Hanatani, Hiroshi Yamakawa, Yuki Ishikawa, Qi An, Atsushi Yamashita and Hajime Asama: "Development of Stress Measurement System during Human Stand-up Motion Using Accurate Shape Knee Joint Model", *Journal of the Japan Society for Precision Engineering*, Vol. 81, No. 1, pp. 99-104, January 2015, in Japanese. [doi:10.2493/jjspe.81.99]
- 53) Junki Nakagawa, Qi An, Yuki Ishikawa, Hiroyuki Oka, Kaoru Takakusaki, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama: "Analysis of Human Motor Skill in Dart Throwing Motion at Different Distance", *SICE Journal of Control, Measurement, and System Integration*, Vol. 8, No. 1, pp. 79-85, January 2015. [doi:10.9746/jcmsi.8.79]
- 54) Naoki Ibe, Gakuto Masuyama, Atsushi Yamashita and Hajime Asama: "Generation of Give-way Behavior of Pedestrian Model with Probabilistic Intention for Mobile Robot Navigation", *Transactions of the JSME*, Vol. 81, No. 821, 14-00330, pp. 1-14, January 2015, in Japanese. [doi:10.1299/transjsme.14-00330]
- 55) Tsukasa Suwazono, Norihito Nakamura and Atsushi Yamashita: "Development of the Remote-controlled Platform Truck for Handling Heavy Object and the Remote Control Human Interface for the Disaster Response", *Advanced Robotics*, Vol. 29, No. 3, pp. 165-169, February 2015. [doi:10.1080/01691864.2014.1001787]
- 56) Takaaki Sato, Horomitsu Fujii, Alessandro Moro, Kazuya Sugimoto, Akira Nozue, Yoichi Mimura, Katsumi Obata, Atsushi Yamashita and Hajime Asama: "Development of Bird's-eye View System in Unmanned Construction", *Transactions of the JSME*, Vol. 81, No. 823, 14-00031, pp. 1-13, March 2015, in Japanese. [doi:10.1299/transjsme.14-00031]
- 57) Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "RGB-D SLAM Using Vanishing Point and Door Plate Information in Corridor Environment", *Intelligent Service Robotics*, Vol. 8, No. 2, pp. 105-114, March 2015. [doi:10.1007/s11370-015-0166-1]
- 58) Wen Wen, Atsushi Yamashita and Hajime Asama: "The Sense of Agency during Continuous Action: Performance is More Important than Action-Feedback Association", *PLoS ONE*, Vol. 10, No. 4, e0125226, pp. 1-16, April 2015. [doi:10.1371/journal.pone.0125226]
- 59) Jonghoon Im, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Correction of Over and Under Exposure Images Using Multiple Lighting System", *E-Journal of Advanced Maintenance*, Vol. 7, No. 1, pp. 50-58, May 2015.

- 60) Soichiro Morishita, Ichiro Fukuda, Yoshikazu Arai, Atsushi Yamashita and Hajime Asama: "Identification of the Person in Video Sequence by Using UHF band RFID System", *Journal of the Japan Society for Precision Engineering*, Vol. 81, No. 6, pp. 589-597, 2015, in Japanese. [doi:10.2493/jjspe.81.589]
- 61) Takuma Tsuji, Shunsuke Hamasaki, Takaki Maeda, Motoichiro Kato, Hiroyuki Oka, Hiroshi Yamakawa, Kaoru Takakusaki, Atsushi Yamashita and Hajime Asama: "Analysis of Electromyography and Skin Conductance Response during Rubber Hand Illusion", *Transactions of the Society of Instrument and Control Engineers*, Vol. 51, No. 6, pp. 440-447, June 2015, in Japanese. [doi:10.9746/sicetr.51.440]
- 62) Soichiro Morishiha, Takehiro Watanabe, Kuniaki Kawabata, Yoshikazu Arai, Atsushi Yamashita, Hajime Asama and Taketoshi Mishima: "Particle Counting Method for Asbestos Qualitative Analysis Based on Multi-Resolution Analysis", *Journal of the Japan Society for Precision Engineering*, Vol. 81, No. 10, pp. 930-935, October 2015, in Japanese. [doi:10.2493/jjspe.81.930]
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