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CURRICULUM VITAE

Hajime Asama



Personal Information

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Education

- 1982.3 B. S., Dept. Precision Machinery Eng., Faculty of Eng., the Univ. of Tokyo, Japan
(Supervisor: Hiroyuki Yoshikawa)
- 1984.3 M. S., Dept. Precision Machinery Eng., Graduate School of Eng., the Univ. of Tokyo, Japan
(Supervisor: Hiroyuki Yoshikawa)
- 1989.9 Dr. Eng., Dept. Precision Machinery Eng., Graduate School of Eng., the Univ. of Tokyo, Japan
(Supervisor: Hiroyuki Yoshikawa)

Professional Experience

- 1986.9 - 1989.11 Research Associate, Chemical Eng. Lab., RIKEN (The Institute of Physical and Chemical Research), Japan
- 1989.12 - 1996.3 Research Scientist, Chemical Eng. Lab., RIKEN, Japan
- 1996.4 - 1997.3 Senior Research Scientist, Biochemical Eng. Lab, RIKEN, Japan
- 1997.4 - 1998.7 Senior Research Scientist, Extreme Conditions Eng. Div., Dept. Research Fundamentals Tech., RIKEN, Japan
- 1998.8 - 1999.3 Senior Scientist, Instrumentation Project Promotion Div., Dept. Research Fundamentals Tech., RIKEN, Japan
- 1999.4 - 2002.10 Senior Scientist, Instrumentation Project Promotion Div., Advanced Engineering Center, RIKEN
- 2002.11- 2009.11 Professor, RACE, the University of Tokyo, Japan
- 2009.11- now Professor, Dept. of Precision Engineering, the University of Tokyo, Japan

Research Interests

Service Robotics, Service Engineering, Mobiligence (Emergence of adaptive motor function through the body, brain and environment), Bio-inspired Robotics, Ambient Intelligence, Ubiquitous Systems, Sensor Networks, Distributed Autonomous Robotic Systems (Self-organizing robots, Cooperation of multiple autonomous mobile robots), Rescue Robotics, Maintenance Engineering, Bioprocess Engineering

Awards

- Promotion of Advanced Automation Technology Award (1992.3)
- JSME Robotics and Mechatronics Division, Certificate of Merit for ROBOMECH Outstanding Research Activity (1995.6)
- JSME Robomech 1996, Certificate of Merit for Best Presentation (1997.6)
- RoboCup-97 Engineering Challenge Award (1997.8)
- RoboCup-98 Japan Open JSAI award (1998.7)
- 4th Int. Symp. on Distributed Autonomous Robotic Systems (DARS '98), Best Papers Award (1998.5)
- JSME, Robotics and Mechatronics Academic Achievement Award (2001.6)
- JSME Robomech 2000, Certificate of Merit for Best Presentation (2001.6)
- JIDPO Good Design Award in New Frontier Design Category (2002.10)
- IFAC NMO Japan, Outstanding Contribution Award (2003.6)
- JSME Fellow (2004.3)
- RSJ Best Paper Award (2005.9)
- FANUC FA Robot Foundation, Best Paper Award (2006.3)
- 9th International Conference on Climbing and Walking Robots (CLAWAR 2006), The Industrial Robot Innovation Award (2006.9)
- JSME Robotics and Mechatronics Division, Certificate of Merit for Outstanding Contribution (2007.5)
- RSJ Fellow (2008.9)
- JSME Funai Award (2009.3)
- JSME, Robotics and Mechatronics Award (2009.5)
- 6th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI 2009), Outstanding Paper Award (2009.10).
- SICE, System Integration Division, System Integration Award for Academic Achievement (2010.12)
- RSJ, Achievement Award (2013.9)
- FA Foundation, Best Paper Award (2014.12)
- SICE Best Paper Award (2015.10)
- 2015 International Symposium on Micro-Nano Mechatronics and Human Science (MHS2015), Best Poster Award (2015.11)
- 6th International Conference on Advanced Mechatronics (ICAM2015), ICAM2015 Best Paper Award (2015.12)
- JSME Robotics and Mechatronics Division, Certificate of Merit for Outstanding Contribution (2016.6)

Societal Professional Activities

International Society Activity

- IEEE Robotics and Automation Society Administrative Committee (AdCom), Member (2007-2009)
- IFAC (International Federation of Automatic Control) Technical Committee on Intelligent Autonomous Vehicles, Vice Chair (1999-2002, 2005-2008), Chair (2002-2005)
- IEEE Robotics and Automation Society Japan Chapter, Chair (2006-2007)
- IFAC (International Federation of Automatic Control) Coordinating Committee on Transportation and Vehicle Systems (CC7), Chair (2011-)
- International Society for Intelligent Autonomous Systems, President elect (2012-2014), President (2014-)

International Journal Activity

- Journal of Intelligent Service Robotics, Springer, Editor (2005-)
- Journal of Advanced Computational Intelligence and Intelligent Informatics, Fuji Technology Press, Editor (2005-2010)
- Journal of Field Robotics, Wiley Blackwell, Associate Editor (2006-)
- Advanced Robotics, Brill, Associate Editor (1995-1997)
- Journal of Robotics and Autonomous Systems, Elsevier, Associate Editor (2010-)
- Control Engineering Practice, Associate Editor (2012-)

International Conference Activity

- IEEE/RSJ International Conference on Intelligent Robots and Systems, Steering Committee, Member
- International Conference on Field and Service Robotics, Permanent Program Committee, Program Committee, Member
- IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, Steering Committee, Member
- Int. Conf. on Field and Service Robotics, Permanent Program Committee, Program Committee, Member
- 4th International Conference on Serviceology (ICServ2016), General Co-Chair (2016)
- 2016 IEEE International Conference on Robotics and Automation (ICRA 2016), Robotics Challenges Co-Chairs (2016)
- 2015 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2015), Program Co-Chair (2015)
- 6th Int. Conf. on Advanced Mechatronics (ICAM2015), Advisory Committee, Member (2015)
- The First International Symposium on Swarm Behavior and Bio-Inspired Robotics (SWARM 2015), Advisory Committee, Member (2015)
- Japan-China-Korea Joint Robotics Workshop, World Robot Conference 2015, Japanese Delegate, Chair (2015)
- 13th Int. Conf. on Intelligent Autonomous Systems (IAS-13), Steering Committee, Member (2014)
- 2014 IEEE Int. Conf. on Mechatronics and Automation (ICMA 2014), Organizing Committee, Member (2014)
- 2nd Int. Conf. on Serviceology (ICServe 2014), International Program Committee, Member (2014)
- 2014 IEEE Int. Conf. on Robotics and Biomimetics (ROBIO 2014), Program Co-Chair (2014)
- 11th Int. Conf. on Ubiquitous Robots and Ambient Intelligence (URAI2014), International Program Committee, Member (2014)
- 10th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2013), International Program Committee, Member (2013)
- 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2013), Organize Session Chair (2013)
- 2013 IEEE International Conference on Mechatronics and Automation (ICMA 2013), General Co-Chair (2013)
- 2013 IFAC Intelligent Autonomous Vehicles Symposium (IAV 2013), Associate Editor (2013)
- 2012 IEEE International Conference on Robotics and Biomimetics (ROBIO 2012), Program Co-chair (2012)
- 9th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2012), Program Co-Chair (2012)
- 2012 12th International Conference on Control. Automation and Systems (ICCAS 2012), Organizing

- Committee, Asia/Oceania Regional Program Chair (2012)
- 12th International Conference on Intelligent Autonomous Systems (IAS-12), Organizing Committee, Regional Program Co-Chair (2012)
- 8th International Conference on Field and Service Robotics (FSR 2012), International Program Committee, Member (2012)
- 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2012), Associate Editor (2012)
- 2012 IEEE International Conference on Mechatronics and Automation (ICMA 2012), General Co-Chair (2012)
- 2012 IEEE International Conference on Robotics and Automation (ICRA 2012), Program Committee, Associate Editor (2012)
- 2011 IEEE International Conference on Robotics and Biomimetics (ROBIO 2011), General Co-chair (2011)
- 8th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2011), International Program Committee, Member (2011)
- 2011 IEEE International Conference on Mechatronics and Automation (ICMA 2011), Program Chair (2011)
- 2011 IEEE International Conference on Robotics and Automation (ICRA 2011), Regional Program Chair (2011)
- 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2010), Program Chair (2010)
- 2010 IEEE International Conference on Information and Automation (ICIA 2010), Organizing Committee, General Co-Chair (2010)
- 2010 International Symposium on Distributed Autonomous Robotic Systems (DARS 2010), Advisory Committee, Member (2010)
- International Conference on Field and Service Robotics, Permanent Program Committee, Program Committee, Member (2010)
- 2010 IEEE International Conference on Robotics and Biomimetics (ROBIO 2010), Regional Program Co-chair (2010)
- 8th World Congress on Intelligent Control and Automation (WCICA 2010), Organized Session Co-Chair (2010)
- 2010 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2010), Program Co-Chair (2010)
- 2010 IEEE International Conference on Robotics and Automation (ICRA 2010), Award Subcommittee on the KUKA Service Robotics Best Paper Award, Member (2010)
- 7th IFAC 7th Symposium on Intelligent Autonomous Vehicles (IAV 2010), IPC Committee, Member (2010)
- 2010 IEEE International Conference on Mechatronics and Automation (ICMA 2010), Program Committee, Member (2010)
- 2nd IEEE/SICE Int. Symp. on System Integration (SII '09), Organizing Committee, Member (2009)
- 2009 IEEE International Conference on Robotics and Biomimetics (ROBIO 2009), Organizing Committee, General Co-chair (2009)
- 2009 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2009), Program Chair (2009)
- 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '09), Award Committee, Co-Chair, Associate Editor (2009)
- 2009 Robotics: Science and Systems Conference (RSS 2009), Area Chair (2009)
- 2009 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM '09), Associate Editor (2009)
- 2009 IEEE International Conference on Automation and Logistics (ICAL 2009), Organized & Focused Session Chair (2009)
- 2009 IEEE International Conference on Mechatronics and Automation (ICMA 2009), Organizing Committee Co-Chair (2009)
- 2009 IEEE International Conference on Robotics and Automation (ICRA 2009), Forum Co-Chair (2009)
- 7th International Conference on Field and Service Robotics (FSR 2009), Program Committee, Member (2009)

- 14th International Conference on Advanced Robotics (ICAR 2009), Technical Program Committee, Member (2009)
- 2nd International Conference on Robot Communication and Coordination (Robocomm 2009), Technical Program Committee, Member (2009)
- 2008 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM '08), Awards Committee, Chair (2008)
- 10th International Conference on Intelligent Autonomous Systems (IAS-10), Program Committee, Program Co-Chair for Asia (2008)
- 2008 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI 2008), Regional Program Chair for Asia/Oceania (2008)
- 2008 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '08), Regional Program Co-chair for Japan (2008)
- 2008 International Symposium on Distributed Autonomous Robotic Systems (DARS '08), Advisory Committee, Member (2008)
- 10th International Conference on Intelligent Autonomous Systems (IAS-10), Program Committee, Program Co-Chair for Asia (2008)
- The 5th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2008), Program Committee, Program Co-Chair (2008)
- 2008 IEEE International Conference on Robotics and Biomimetics (ROBIO 2008), Program Committee, Program Co-Chair (2008)
- 17th IFAC Symposium on Automatic Control in Aerospace (ACA 2007), International Program Committee, Member (2007)
- 6th International Conference on Field and Service Robotics (FSR 2007), Permanent Program Committee, Member (2007)
- 2007 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2007), Program Committee, Member (2007)
- 6th IFAC Symposium on Intelligent Autonomous Vehicles (IAV-6), International Program Committee, Co-chair (2007)
- 2007 IEEE International Conference on Mechatronics and Automation (ICMA 2007), Organizing Committee, Co-chair (2007)
- 13th International Conference on Advanced Robotics (ICAR 2007), Technical Program Committee, Program Co-chair (2007)
- 2007 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2007), Technical Program Committee, Member (2007)
- 1st International Conference on Robot Communication and Coordination (Robocomm 2007), Technical Program Committee, Member (2007)
- 2007 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2007), International Advisory Committee, Member (2007)
- 2007 IEEE International Conference on Robotics and Biomimetics (Robio 2007), Program Committee, Co-chair (2007)
- 2006 IEEE International Conference on Mechatronics and Automation (ICMA 2006), Organizing Committee Co-Chair (2006)
- 2006 International Symposium on Distributed Autonomous Robotic Systems (DARS 2006), Conference Advisory Committee Member (2006)
- 9th International Conference on Intelligent Autonomous Systems 9 (IAS-9), Local Organization Chair (2006)
- 2005 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2005), General Co-Chair (2005)
- 2005 IEEE International Conference on Robotics and Biomimetics (Robio 2005), Steering Committee, Member (2005)
- 5th International Conference on Field and Service Robotics (FSR 2005), Permanent Program Committee, Member (2005)
- 2004 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '04), Program Chair (2004)
- 5th IFAC International Symposium on Intelligent Autonomous Vehicles (IAV '04), International Program Committee, Member, (2004)

- 4th International Conference on Field and Service Robotics (FSR '03) , Program Chair, (2003)
- 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '03), Regional Program Co-chair for Asia (2003)
- 2003 IEEE International Symposium on Computational Intelligence in Robotics and Automation (CIRA '03), Program Committee, Member (2003)
- 2003 IEEE International Conference on Systems, Man and Cybernetics (SMC '03), Program Committee, Member (2003)
- 2003 SICE International Conference on Instrumentation, Control and Information Technology (SICE Annual Conference 2003), Program Committee, Member (2003)
- 2003 International Conference on Advanced Robotics (ICAR 2003), Technical Program Committee, Member (2003)
- 1999 IEEE International Conference on Systems, Man and Cybernetics (SMC '99), Publication Committee, Chair (1999)
- 6th International Symposium on Distributed Autonomous Robotic Systems (DARS '02), Program Chair, (2002)
- 4th IFAC International Symposium on Intelligent Autonomous Vehicles (IAV '01), Program Chair, (2001)
- 1999 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 1999), Technical Program Committee, Member (1999)
- 1st International Conference on Field and Service Robotics (FSR 1997), Program Committee, Member (1997)
- 3rd International Symposium on Distributed Autonomous Robotic Systems (DARS '96), Program Chair, (1996)
- 1995 IEEE International Conference on Robotics and Automation (ICRA 1995), Technical Program Committee, Member (1995)
- 2nd IFAC Symposium on Intelligent Autonomous Vehicles (IAV-2), International Program Committee, Member (1995)
- 2nd International Symposium on Distributed Autonomous Robotic Systems (DARS '94), Program Chair, (1994)
- 1993 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 1993), Technical Program Committee, Member (1993)
- 1st International Symposium on Distributed Autonomous Robotic Systems (DARS '92), Program Chair, (1992)

Domestic Society Activity

- Robotics Society of Japan (RSJ), Vice President (2011-2012), Director Board Member (1999-2000, 2004-2005)
- The Japan Society of Mechanical Engineers (JSME), Director Board Member (2014-2015)
- The Japan Society of Mechanical Engineers (JSME), Robotics and Mechatronics Division, Advisory Board Member (2008-2013, 2016-), Chair (2007), Vice Chair (2006)
- The Society of Instrument and Control Engineers (SICE), Technical Committee on Autonomous Decentralized Systems, Advisor (2004-), Chair (2003), Vice Chair (2002)
- Society for Serviciology, Director Board Member (2013-2014)

Domestic Conference Activity

- 2015 Robotics Symposia, General Chair (2015).
- 2006 Intelligent System Symposium (FAN '06), General Chair (2006).
- Robotics Symposia, Steering Committee, Member (1999-)
- Intelligent System Symposium, Steering Committee, Member (1998-)

Domestic Social Activity

- SCJ (Science Council of Japan), member (2014-)
- JSPS (Japan Society for the Promotion of Science) Research Center for Science Systems, Program Officer (2013-2015)
- COCN (Council on Competitiveness-Nippon) Liaison group on Disaster Response Robots, Leader (2015-)
- COCN (Council on Competitiveness-Nippon) Project on Disaster Response Robots, Project Leader (2011-2014)
- Japanese Government and TEPCO: Council for the Decommissioning of TEPCO's Fukushima Daiichi NPS, member(2014-)
- IRID (International Research Institute for Nuclear Decommissioning), Technical Committee, member (2013-)
- IRID (International Research Institute for Nuclear Decommissioning), Working Committee on Equip development and Remote Control on Fuel Debris Removal, Chair (2013-)
- JAEA (Japan Atomic Energy Agency) Committee on Management and Use of Remote Control Equipment and Device Development Facility (Mock-up facility), Member (2013-)
- JAEA (Japan Atomic Energy Agency) Working Committee on Remote Control Equipment and Device Development Facility (Mock-up facility), Chair (2013-)
- NRSA (Nuclear Safety Research Association) Working Committee on Basic Research for Decommissioning and Countermeasure, Member (2013)
- JMF (The Japan Machinery Foundation) Committee on Review and Management of Robot Award, Chair (2011-)
- NEDO (New Energy and Industrial Technology Development Organization) Working Committee on Publication of Robot White Paper, Member (2013)
- NEDO (New Energy and Industrial Technology Development Organization) Project for Development of Unmanned Systems for Disaster Response, Project Leader (2012-2013)
- Japanese Government and TEPCO: Task Force for Remote Control Technology, Chairman (2012-)
- Japanese Government and TEPCO: Headquarter of Mid-term and Long-term Research and Development Promotion, Member (2012-2013)
- Japan Atomic Energy Commission, Advisory Committee on Medium-range and Long-range Measures for Fukushima Daiichi Nuclear Power Plant, Member (2011-)
- Council on Competitiveness-Japan, Project on Disaster Response Robots and Their Operation System, Project Leader (2011-)
- METI (Ministry of Economy, Trade and Industry) Remote Control/Robotics Project Team, Member (2011)
- Robotics Task Force for Anti-Disaster (ROBOTAD), Chairman (2011-)
- NEDO (New Energy and Industrial Technology Development Organization) Project for Strategic Development of Advanced Robotics Elemental Technologies, Sub Project Leader (2006-2010)
- MEXT (Ministry of Education, Culture, Sports, Science and Technology) Grant-in-Aid for Scientific Research, Scientific Research on Priority Areas, Program on Emergence of Adaptive Motor Function

through Interaction among the Body, Brain and Environment (A Constructive Approach to Understanding of Mobiligence), Director (2005-2009)

- MLIT (Ministry of Land, Infrastructure, Transport and Tourism) Comprehensive Technological Development Project on Advanced Execution Technology by Remote Control Robot and Information Technology, WG2 Chair (2003-2007)
- MEXT (Ministry of Education, Culture, Sports, Science and Technology) Project of Development of Advanced Robots and Information Systems for Disaster Response (DDT Project), Mission Unit Leader and Task Force Leader of Information Infrastructure (2002-2006)

Publications

International Journal Papers (International journal papers only)

1. H. Asama, H. Yoshikawa, T. Mikami, T. Shirowa: "Development of a 9 DoF Articulated Manipulator for Maintenance", *Bulletin of the Japan Society of Precision Engineering*, vol. 20, no. 1, pp. 47-48 (1986).
2. I. Endo, H. Asama, T. Nagamune: "A Database System and an Expert System for Realizing Factory Automation in the Bioindustries", in *Bioproducts and Bioprocesses* (Fiechter, Okada, Tanner Eds.), Springer-Verlag, Berlin-Heidelberg, pp. 337-346, (1989).
3. H. Asama, T. Nagamune, M. Hirata, A. Hirata, I. Endo: "An Expert System for Cultivating Operations", in *Biochemical Engineering VI* (W. E. Goldstein, D. Dibiasio and H. Pedersen Eds.), *Annals of the New York Academy of Sciences*, vol. 589, pp. 569-579, (1990).
4. T. Fukuda, Y. Kawauchi, M. Buss, H. Asama: "A Study on Dynamically Reconfigurable Robotic Systems (Recognition and Communication System of Cell-Structured Robot "CEBOT")", *JSME Int. J. (Series III)*, vol. 34, no. 2, pp. 295-302 (1991).
5. T. Fukuda, Y. Kawauchi, H. Asama: "Dynamically Reconfigurable Robotic Systems: Optimal Knowledge Allocation for Cellular Robotic System (CEBOT)", *J. Robotics and Mechatronics*, vol. 2, no. 6, pp. 436-444 (1990).
6. T. Siimes, M. Nakajima, H. Yada, H. Asama, T. Nagamune, P. Linko, I. Endo: "Knowledge Base Diagnosis of Inoculum Properties and Sterilization Time in Lactic Acid Fermentation", *Biotechnology Techniques*, vol. 6, no. 5, pp. 385-390 (1992).
7. T. Siimes, M. Nakajima, H. Yada, H. Asama, T. Nagamune, P. Linko, I. Endo: "Object-oriented Fuzzy System for On-line Diagnosing and Control of Bioprocesses", *Applied Microbiology and Biotechnology*, vol. 37, pp. 756-761 (1992).
8. H. Asama, K. Ozaki, A. Matsumoto, Y. Ishida, I. Endo: "Development of Task Assignment System Using Communication for Multiple Autonomous Robots", *J. Robotics and Mechatronics*, vol. 4, no. 2, pp. 122-127 (1992).
9. Z. R. F. Bustamante, M. Pokkinen, T. Takuwa, H. Asama, P. Linko, I. Endo: "Fuzzy Reasoning System for Fault Diagnosis of Physiological Activities in a Cultivating Process", *J. Biotechnology*, vol. 24, no. 1, pp. 75-83 (1992).
10. M. Pokkinen, Z. R. F. Bustamante, H. Asama, I. Endo, P. Linko: "Diagnosing Lactic Acid Fermentation Based on Specific Rates of Growth, Substrate Consumption and Product Formation", *Bioprocess Engineering*, vol. 7, no. 7, pp. 319-323 (1992).
11. M. Pokkinen, Z. R. F. Bustamante, H. Asama, I. Endo, R. Aarts, P. Linko: "A Knowledge Based System for Diagnosing Microbial Activities during Fermentation Process", *Bioprocess Engineering*, vol. 7, no. 8, pp. 331-334 (1992).
12. C. von Numers, M. Nakajima, T. Siimes, H. Asama, P. Linko, I. Endo: "A Knowledge based System using Fuzzy Inference for Supervisory Control of Bioprocesses", *J. of Biotechnology*, vol. 34, pp. 109-118 (1994).
13. H. Asama, K. Ozaki, Y. Ishida, K. Yokota, A. Matsumoto, H. Kaetsu, I. Endo: "Strategy for Cooperative Motion of Multiple Robots in a Decentralized Robotic System", *SME Trans. on Robotics Research*, MS94-236, pp. 1-11 (1994).
14. G. Xue, T. Fukuda, H. Asama: "Error Recovery in Assembly of a Self-Organizing Manipulator by Using Active Visual and Force Sensing", *Autonomous Robots*, vol. 1, pp. 179-186 (1995).
15. S. Takata, H. Hiraoka, H. Asama, N. Yamaoka, D. Saito: "Facility Model for Life Cycle Maintenance Systems", *Annals of CIRP*, vol. 44/1, pp. 117-121 (1995).
16. H. Hiraoka, D. Saito, S. Takata, H. Asama: "Model Based Approach to Life-cycle Simulation of Manufacturing Facilities", *Life Cycle Modelling for Innovative Products and Processes* (Ed. F.-L. Krause and H. Jansen), Chapman & Hall, pp. 408-419, (1995).
17. T. Fujii, H. Asama, T. von Numers, T. Fujita, H. Kaetsu, I. Endo: "Co-evolution of a Multiple Autonomous Robot System and its Working Environment via Intelligent Local Information Storage", *J. of Robotics and Autonomous Systems*, vol. 19, pp. 1-13 (1996).
18. H. Asama, T. Fujii, H. Kaetsu, I. Endo: "Elemental Technologies for Collective Robots", *J. of Robotics and Mechatronics*, vol. 8, no. 5, pp. 420-426 (1996).
19. K. Ozaki, H. Asama, Y. Ishida, A. Matsumoto and I. Endo: "Collision Avoidance Using Communication between Autonomous Mobile Robots", *J. of Robotics and Mechatronics*, vol. 8, no. 5, pp. 459-466 (1996).
20. S. Takata, H. Shiono, H. Hiraoka, H. Asama: "Case-Based Evaluation of Potential Deterioration for

- Facility Life-Cycle Management", *Annals of CIRP*, vol. 46/1, pp. 385-390 (1997).
21. S. Suzuki, Y. Arai, S. Kotosaka, H. Asama, H. Kaetsu, I. Endo: "Development of an Infrared Sensory System with Local Communication Facility for Collision Avoidance of Multiple Mobile Robots", *J. of Robotics and Mechatronics*, vol. 9, no. 5, pp. 354-361 (1997).
 22. K. Ozaki, H. Asama, I. Endo: "Distributed and Cooperative Object Pushing by Multiple Mobile Robots Based on Communication", *Advanced Robotics*, vol. 11, no. 5, pp. 501-518 (1997).
 23. T. Suzuki, T. Fujii, H. Asama, K. Yokota, H. Kaetsu, I. Endo: "A Multi-Robot Teleoperation System Utilizing the Internet", *Advanced Robotics*, vol. 11, no. 8, pp. 781-797 (1998).
 24. S. Takata, A. Yamada, T. Kohda, H. Asama: "Life Cycle Simulation Applied to a Robot Manipulator - An Example of Aging Simulation of Manufacturing Facilities-", *Annals of CIRP*, vol. 47/1, pp. 397-400 (1998).
 25. K. Hosokawa, T. Fujii, H. Kaetsu, H. Asama, Y. Kuroda, I. Endo: "Self-Organizing Collective Robots with Morphogenesis in a Vertical Plane", *JSME Int. J. (Series III)*, vol. 42, no. 1, pp. 195-202 (1999).
 26. K. Kawabata, T. Sekine, T. Ishikawa, H. Asama, I. Endo: "Direct Mobile Robot Teleoperation via Internet", *J. of Robotics and Mechatronics*, vol. 11, no. 1, pp. 54-59 (1999).
 27. S. Takata, Y. Inoue, T. Kohda, H. Hiraoka, H. Asama: "Maintenance Data Management System", *Annals of CIRP*, vol. 48/1, pp. 389-392, (1999).
 28. K. Kawabata, T. Ishikawa, T. Fujii, H. Asama, I. Endo: "Collaborative Task Execution by a Human and an Autonomous Mobile Robot in a Teleoperated System", *J. Integrated Computer-Aided Engineering*, vol. 6, No. 4, pp. 319-329, (1999).
 29. Y. Arai, T. Fujii, H. Asama, H. Kaetsu, I. Endo: "Collision Avoidance in Multi-Robot Systems based on Multi-Layered Reinforcement Learning", *J. of Robotics and Autonomous Systems*, vol. 29, pp. 21-32, (1999).
 30. Y. Asahiro, H. Asama, S. Fujita, I. Suzuki, and M. Yamashita: "Distributed Algorithms for Carrying a Ladder by Omnidirectional Robots in Near Optimal Time", in *Sensor Based Intelligent Robots* (H. I. Christensen, H. Bunke, H. Noltemeier Eds.), *Lecture Notes in Artificial Intelligence*, vol. 1724, p. 240-254, (1999).
 31. H. Asama, T. Fujii, H. Kaetsu, I. Endo, T. Fujita: "Distributed Task Processing by a multiple Autonomous Robot System Using an Intelligent Data Carrier System", *Intelligent Automation and Soft Computing, An International Journal*, vol. 6, no. 3, pp. 215-224, (2000).
 32. S. Okina, K. Kawabata, T. Fujii, Y. Kunii, H. Asama, I. Endo: "Self-diagnosis System of an Autonomous Mobile Robot Using Sensory Information", *J. of Robotics and Mechatronics*, vol. 12, no. 2, pp. 72-77, (2000).
 33. Y. Hirata, K. Kosuge, T. Oosumi, H. Asama, H. Kaetsu, K. Kawabata: "Coordinated Transportation of a Single Object by Omni-Directional Mobile Robots with Body Force Sensor", *J. of Robotics and Mechatronics*, vol. 12, no. 3, pp. 242-248, (2000).
 34. K. Kawabata, T. Sekine, T. Suzuki, T. Fujii, H. Asama, I. Endo: "Mobile robot teleoperation system utilizing a virtual world", *Advanced Robotics*, vol. 15, no. 1, pp. 1-16, (2001).
 35. T. Morita, T. Niino, H. Asama, H. Tashiro: "Fundamental Study of a Stacked Lithium Niobate Transducer", *Jpn. J. Appl. Phys.*, vol. 40, Part 1, No. 5B, pp. 3801-3806 (2001).
 36. A. Yamashita, T. Kanazawa, H. Asama, H. Kaetsu, I. Endo, T. Arai, K. Sato: "Development of a Holonomic Omni-Directional Mobile Robot with Step-Climbing Ability", *J. of Robotics and Mechatronics*, vol. 13, no. 2, pp. 160-167, (2001).
 37. D. Kurabayashi, H. Asama: "Autonomous Knowledge Acquisition and Revision by Intelligent Data Carriers in a Dynamic Environment", *J. of Robotics and Mechatronics*, vol. 13, no. 2, pp. 154-159, (2001).
 38. D. Kurabayashi, K. Konishi, H. Asama: "Distributed Guidance Knowledge Management by Intelligent Data Carriers", *Int. J. of Robotics and Automation*, vol. 16, no. 4, pp. 207-216 (2001).
 39. T. Morita, T. Niino, H. Asama: "Rotational feedthrough using ultrasonic motor for high vacuum condition", *Vacuum*, vol. 65, pp. 85-90 (2002).
 40. K. Kawabata, T. Suzuki, H. Kaetsu, H. Asama: "Omnidirectional Mobile Platform for Research and Development", *J. of Robotics and Mechatronics*, vol. 14, no. 2, pp. 105-111 (2002).
 41. N. Miyata, J. Ota, T. Arai, H. Asama: "Cooperative Transport by Multiple Mobile Robots in Unknown Static Environments Associated with Real-Time Task Assignment", *IEEE Trans. on Robotics and Automation*, vol. 18, no. 5, pp. 769-780 (2002).
 42. T. Morita, S. Takahashi, H. Asama, T. Niino: "Rotational feedthrough using an ultrasonic motor and its performance in ultra high vacuum conditions", *Vacuum*, vol. 70, pp. 53-57 (2003).

43. A. Yamashita, T. Arai, J. Ota, H. 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 (2003).
44. K. Kawabata, S. Okina, T. Fujii, H. Asama: "A system for self-diagnosis of an autonomous mobile robot using an internal state sensory system: fault detection and coping with the internal condition", *Advanced Robotics*, Vol.17, No.9, pp.925-950 (2003).
45. D. Kurabayashi, K. Noda, H. Asama, K. Kawabata, H. Kaetsu, H. Hashimoto: "Information Assistance for Search-and-Rescue by Intelligent Data Carriers and a Data Retrieval Blimp", *Journal of Robotics and Mechatronics*, Vol.15, No.5, pp.521-527 (2003).
46. T. Fraichard and H. Asama: "Inevitable collision state—a step towards safer robot?", *Advance Robotics*, Vol. 8, No. 10, pp. 1001-1024 (2004).
47. S. Kunimitsu, H. Asama, K. Kawabata, T. Mishima: "Development of crane vision for positioning container", *Journal of Robotics and Mechatronics*, Vol. 16, No. 2, pp. 186-193 (2004).
48. Y. Fukazawa, T. Chomchana, J. Ota, H. Yuasa, T. Arai, H. Asama, K. Kawabata: "Realizing The Exploration and Rearrangement of Multiple Unknown Object by an Actual Mobile Robot", *Advance Robotics*, Vol. 19, No. 1, pp. 1-20 (2005).
49. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Development of A Control System for An Omni-Directional Vehicle with Step-Climbing Ability", *Advanced Robotics*, Vol. 19, No. 1, pp. 55-71 (2005).
50. K. Saitoh, K. Kawabata, S. Kunimitsu, H. Asama, T. Mishima: "Evaluation of Protein Crystallization States Based on Texture Information Derived from Greyscale Images", *Acta Crystallographica Section D, Biological Crystallography*, ISSN0907-4449, International Union of Crystallography, Vol.D61, pp. 873-880 (2005).
51. S. Kunimitsu, H. Asama, K. Kawabata, T. Mishima: "Detection of Object Under Outdoor Environment by Matching with Partial and Whole Templates", *Electrical Engineering in Japan* Vol.154, No.1, pp.49-60 (2006).
52. K. Kawabata, M. Takahashi, K. Saitoh, H. Asama, T. Mishima, M. Sugahara, M. Miyano: "Evaluation of Crystalline Objects in Crystallizing Protein Droplets Based on Line-Segment Information in Greyscale Images", *Biological Crystallography, Acta Crystallographica*, No.D62, pp.239-245 (2006).
53. K. Kawabata, D. Itoh, Y. Hada, D. Chugo, H. Kaetsu, H. Asama: "Self-Localization Method Utilizing Environment-Embedded Information and Range Sensory Information", *Journal of Robotics and Mechanics*, Vol.18, No.2, pp.131-138 (2006).
54. T. Suzuki, T. Uehara, K. Kawabata, D. Kurabayashi, I. E. Paromtchik, H. Asama: "Indoor Navigation for Mobile Robot by Using Environment Embedded Local Information Management Device and Optical Pointer", *Field and Service Robotics*, STAR 24, Springer, pp.41-49 (2006).
55. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Development of a Control System of An Omni-Directional Vehicle with A Step Climbing Ability", *Field and Service Robotics*, STAR 24, Springer, pp.245-254 (2006).
56. K. Kawabata, K. Saitoh, M. Takahashi, M. Sugahara, H. Asama, T. Mishima, M. Miyano, "Integrated state evaluation for the images of crystallization droplets utilizing linear and nonlinear classifiers", *Biological Crystallography, Acta Crystallographica Section D*, vol. 62, pp. 1066-1072, (2006).
57. U. Kiencke, L. Nielsen, R. Sutton, K. Schilling, M. Papageorgiou, H. Asama: "The Impact of Automatic Control on Recent Developments in Transportation and Vehicle System", *Annual Reviews in Control*, No.30, pp.81-89 (2006).
58. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Wheel Control Based on Body Configuration for Step-Climbing Vehicle", *Field and Service Robotics*, STAR 25, Springer, pp. 331-342, (2006).
59. K. Kawabata, T. Fujiki, Y. Ikemoto, H. Aonuma, H. Asama: "A Neuromodulation Model for Adaptive Behavior Selection by the Cricket -Nitric Oxide (NO)/Cyclic Guanosine MonoPhosphate (cGMP) Cascade Model-", *Journal of Robotics and Mechatronics*, Vol.19, No.4, pp. 388-394 (2007).
60. T. Fujiki, K. Kawabata, H. Asama: "Adaptive Action Selection of Body Expansion Behavior in Multi-Robot System using Communication", *Journal of Advanced Computational Intelligence and Intelligent Informatics*, Vol.11, No.2, pp. 142-148 (2007).
61. D. Chugo, K. Kawabata, H. Okamoto, H. Kaetsu, H. Asama, N. Miyake, K. Kosuge: "Force Assistance System for Standing-Up Motion", *Industrial Robot: An International Journal*, Vol.34, No.2, pp. 128-134 (2007).

62. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Configuration-Based Wheel Control for Step-Climbing Vehicle", *Journal of Robotics and Mechatronics*, Vol.19, No.1, pp. 52-59 (2007).
63. M. Otake, M. Kato, T. Maeda, Y. Ikemoto, K. Kawabata, T. Takagi, H. Asama: "Experimental Analysis of the Attribution of Own Actions to the Intention of Self or Others by the Multiple Forward Models", *Journal of Robotics and Mechatronics*, Vol.19, No.4, pp. 482-488 (2007).
64. Y. Ikemoto, K. Kawabata, T. Miura, H. Asama: "Mathematical Model of Proportion Control and Fluctuation Characteristic in Termite Caste Differentiation", *Journal of Robotics and Mechatronics*, Vol.19, No.4, pp. 429-435 (2007).
65. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama and T. Mishima, "Mechanical Design of Step-Climbing Vehicle with Passive Linkages," *Bioinspiration and Robotics: Walking and Climbing Robots*, I-Tech Education and Publishing, pp.429-440, (2007).
66. O. Takizawa, A. Shibayama, M. Hosokawa, K. Takanashi, M. Murakami, Y. Hisada, Y. Hada, K. Kawabata, I. Noda, H. Asama: "Hybrid radio frequency identification system for use in disaster relief as positioning source and emergency message boards", *Mobile Response*, Springer, pp. 85-94(2007).
67. K. Kawabata, M. Takahashi, K. Saito, M. Sugahara, H. Asama, T. Mishima, M. Miyano: "Crystalline Object Evaluation by Image Proceeding", *Sensor Review*, Vol.28, No.2, pp. 143-149 (2008).
68. D. Chugo, W. Matsuoka, S. Jia, K. Takase, H. Asama: "Standing Assistance System for Rehabilitation Walker", *Field and Service Robotics*, *Field and Service Robotics*, STAR 42, Springer, pp. 541-550 (2008).
69. K. Kawabata, K. Saito, M. Takahashi, H. Asama, T. Mishima, M. Sugahara, M. Miyano: "Evaluation of Protein Crystallization State by Sequential Image Classification", *Sensor Review*, Vol.28, No.3, pp. 242-247 (2008).
70. T. Suzuki, K. Kawabata, D. Kurabayashi, I. E. Paromtchik and H. Asama: "Cooperative Indoor Navigation using Environment-Embedded Assistance Devices", *Motion Planning*, Xing-Jian Jing (Ed.), InTech Education and Publishing, 26, pp. 517-528 (2008).
71. Y. Ikemoto, S. Suzuki, H. Okamoto, H. Murakami, H. Asama, S. Morishita, T. Mishima, X. Lin, H. Itoh: "Force sensor system for structural health monitoring using passive RFID tags", *Sensor Review*, Vol. 29, No. 2, pp. 127 - 136 (2009).
72. K. Nakajima, S. Morishita, T. Kazawa, R. Kanzaki, K. Kawabata, H. Asama, T. Mishima: "Interpolation of binarized CLSM images for extraction of premotor neuron branch structures in silkworm moth", *Sensor Review*, Vol.29, No.2, pp. 137-147 (2009).
73. K. Kawabata, S. Morishita, H. Takemura, K. Hotta, T. Mishima, H. Asama, H. Mizoguchi, H. Takahashi: "Development of an Automated Microscopic System for Supporting Asbestos Qualitative Analysis by Dispersion Staining Method", *Journal of Robotics and Mechatronics*, Vol.21, No.2, pp. 186-192 (2009).
74. K. Kawabata, Y. Komori, H. Asama, T. Mishima: "An Asbestos Fibres Detection Technique Utilizing Image Processing Based on Dispersion Colour", *Particulate Science & Technology: An International Journal*, Vol. 27, No. 2, pp.177-192 (2009).
75. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Omni-directional Vehicle Control Based on Body Configuration," *Industrial Robot*, Vol.36, No.5, pp. 461-468, (2009).
76. Y. Ikemoto, Y. Ishikawa, T. Miura, H. Asama: "A Mathematical Model for Caste Differentiation in Termite Colonies (Isoptera) by Hormonal and Pheromonal Regulations", *Sociobiology*, Vol. 54, No. 3, pp. 841-859, (2009).
77. K. Nakajima, S. Morishita, H. Asama, T. Kazawa, R. Kanzaki, T. Mishima: "Structural comparison of premotor neurons in silkworm moths", *FORMA*, Society for Science on Form, Japan, vol. 24, pp. 67-78, (2009).
78. K. Ishizu, H. Takemura, K. Kawabata, H. Asama, T. Mishima, H. Mizoguchi: "Automatic Counting Robot Development Supporting Qualitative Asbestos Analysis -Asbestos, Air Bubbles, and Particles Classification Using Machine Learning-", *Journal of Robotics and Mechatronics*, Vol. 22, No. 4, pp. 506-513, (2010).
79. Y. Ikemoto, T. Miura, H. Asama: "Adaptive Division-of-Labor Control Algorithm for Multi-Robot Systems", *Journal of Robotics and Mechatronics*, Vol. 22, No. 4, pp. 514-525, (2010).
80. Y. Tamura, Y. Murai, H. Murakami, H. Asama: "Identification of Types of Obstacles for Mobile Robots," *Intelligent Service Robotics*, Vol. 4, No. 2, pp. 99-105, (2011).
81. K. Kawabata, T. Fujii, H. Aonuma, T. Suzuki, M. Ashikaga, J. Ota, H. Asama: "A Neuromodulation Model of Behavior Selection in the Fighting Behavior of Male Crickets," *Journal of Robotics and*

- Autonomous Systems, vol. 60, no. 5, pp. 707-713, (2012).
82. S. Yano, Y. Ikemoto, H. Aonuma, H. Asama: "Forgetting curve of cricket, *Gryllus bimaculatus*, derived by using serotonin hypothesis," *Journal of Robotics and Autonomous Systems*, vol. 60, no. 5, pp. 722-728, (2012).
 83. 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).
 84. Ryosuke Kawanishi, Atsushi Yamashita, Toru Kaneko and Hajime Asama: "Parallel Line-based Structure from Motion by Using Omnidirectional Camera in Texture-less Scene", *Advanced Robotics*, vol.27, no.1, pp. 19–32 (2013).
 85. Inyong Ha, Yusuke Tamura, Hajime Asama: "Development of open platform humanoid robot DARwIn-OP ", *Advanced Robotics*, vol.27, no.3, pp. 223–232 (2013).
 86. Yusuke Tamura, Mami Egawa, Shiro Yano, Takaki Maeda, Motoichiro Kato, and Hajime Asama: "Activeness Improves Cognitive Performance in Human-Machine Interaction", *Journal of Advanced Computational Intelligence and Intelligent Informatics*, vol.17 no.3, pp. 425-432 (2013).
 87. Guanghui Li, Yusuke Tamura, Atsushi Yamashita, 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).
 88. Yusuke Tamura, Yoshitaka Terada, Atsushi Yamashita and Hajime Asama: "Modeling Behavior Patterns of Pedestrian for Trajectory Generation of Mobile Robots", *International Journal of Advanced Robotic Systems*, Vol.10, 310, pp.1-11 (2013).
 89. Shiro Yano, Takayuki Watanabe, Hitoshi Aonuma, Hajime Asama: "Pitchfork Bifurcation in a Receptor Theory-Based Model of the Serotonergic System", *Molecular BioSystems*, vol. 9, no. 8, pp. 2079-2084 (2013).
 90. Qi An, Yusuke Ikemoto, Hajime Asama: "Synergy Analysis of Sit-to-Stand in Young and Elderly People", *Journal of Robotics and Mechatronics*, vol. 25, no. 6, pp. 1038-1049 (2013).
 91. Masashi Awai, Atsushi Yamashita, Takahito Shimizu, Toru Kaneko, Yuichi Kobayashi, 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 (2014).
 92. Daisuke Chugo, Kuniaki Kawabata, Hayato Kaetsu, Hajime Asama, Taketoshi Mishima: "Terrain-Surface Estimation from Body Configurations of Passive Linkages," *International Journal of Advanced Robotic Systems*, vol.11, no.12, pp. 1–13 (2014).
 93. Qi An, Yuki Ishikawa, Junki Nakagawa, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita, 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 (2014).
 94. 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 (2014).
 95. 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 (2015).
 96. Wen Wen, Atsushi Yamashita and Hajime Asama: "The Influence of Action-Outcome Delay and Arousal on Sense of Agency and the Intentional Binding Effect", *Consciousness and Cognition*, vol. 36, pp. 87-95 (2015).
 97. 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 (2015).
 98. 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 (2015).
 99. 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 (2015).

100. Wen Wen, Atsushi Yamashita, Hajime Asama: "The Influence of Goals on Sense Control", *Consciousness and Cognition*, Vol.37, pp.83-90 (2015).
101. Akira Murata, Wen Wen, Hajime Asama: "The body and objects represented in the ventral stream of the parieto-premotor network", *Neuroscience Research*, doi:10.1016/j.neures.2015.10.010 (2015).
102. Daiki Kawakami, Kaito Makino, Yuichi Kobayashi, Toru Kaneko, Atsushi Yamashita, Hajime Asama: "Projector Camera System Presenting Color Information for the Color Vision Deficient", *Journal of Advanced Computational Intelligence and Intelligent Informatics*, vol. 20, no. 1, pp. 26-32 (2016).
103. Wen Wen, Atsushi Yamashita, Hajime Asama: "Divided Attention and Processes Underlying Sense of Agency", *Frontiers in Psychology*, section Consciousness Research, vol. 7, no. 35, pp. 1-8, 7:35. doi:10.3389/fpsyg.2016.00035 (2016).
104. Wen Wen, Katsutoshi Muramatsu, Shunsuke Hamasaki, Qi An, Hiroshi Yamakawa, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Goal-directed Movement Enhances Body Representation Updating", *Frontiers in Human Neuroscience*, Vol.10, No.329, pp.1-10 2016. [doi:10.3389/fnhum.2016.00329]
105. Rin Minohara, Wen Wen, Shunsuke Hamasaki, Takaki Maeda, Motoichiro Kato, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama: "Strength of Intentional Effort Enhances the Sense of Agency", *Frontiers in Psychology*, Vol.7, No.1165, pp.1-5 (2016). [doi:10.3389/fpsyg.2016.01165]
106. Yuki Ishikawa, Qi An, Junki Nakagawa, Hiroyuki Oka, Tetsuro Yasui, Michio Tojima, Haruhi Inokuchi, Nobuhiko Haga, Hiroshi Yamakawa, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Gait Analysis of Patients with Knee Osteoarthritis by Using Elevation Angle: Confirmation of the Planar Law and Analysis of Angular Difference in the Approximate Plane", *Advanced Robotics*, Vol.31, No.1, (2017). (to be published)

Reviewed Conference/Workshop Papers (International conference papers only)

1. H. Asama, H. Yoshikawa: "Development of a Metamorphic Manipulator with 9 Degrees of Freedom", Proc. 15th Int. Symp. on Industrial Robots, pp. 415-422 (1985).
2. H. Yoshikawa, H. Asama: "Mobile Robot in Hazardous Environment", Proc. Int. Conf. on Intelligent Autonomous System, (1986).
3. H. Asama, M. Onosato, H. Yoshikawa: "Structure Strategy Problem on a Redundant Manipulator", RoManSy 6 (Proc. 6th CISM-IFTToMM Symp. on Theory and Practice of Robots and Manipulators), pp. 642-651 (1986).
4. H. Asama, K. Yokota, H. Yoshikawa: "A Knowledge-Based Task Sequence Planning System for Maintenance Manipulators", RoManSy 7 (Proc. 7th CISM-IFTToMM Symp. on Theory and Practice of Robots and Manipulators), pp. 342-349 (1988).
5. H. Asama, A. Matsumoto, Y. Ishida: "Design of an Autonomous and Distributed Robot System: ACTRESS", Proc. 1990 IEEE/RSJ Int. Workshop on Intelligent Robots and Systems, pp. 283-290 (1989).
6. Z. R. F. Bustamante, M. Pokkinen, T. Takuwa, H. Asama, I. Endo: "Fuzzy Reasoning System for Fault Diagnosis of Physiological Activities in a Fermentation Process", Proc. 1990 Asia-Pacific Biochemical Eng. Conf., pp. 272-275 (1990).
7. A. Matsumoto, H. Asama, Y. Ishida, K. Ozaki, I. Endo: "Communication in the Autonomous and Decentralized Robot System ACTRESS", Proc. 1990 IEEE Int. Workshop on Intelligent Robots and Systems, pp. 835-840 (1990).
8. M. K. Habib, H. Asama: "Efficient Algorithm for Planning Collision Free Path among Polyhedral Obstacles", Proc. 1990 Korean Automatic Control Conf., pp. 1004-1008 (1990).
9. T. Fukuda, S. Shiotani, F. Arai, H. Asama, T. Nagamune, I. Endo: "Recognition and Counting of Cells by Image Processing", in Automation in Biotechnology (I. Karube I. Ed.), Elsevier Scientific Publishing Company, Amsterdam-Oxford-New York, pp. 127-144 (1991).
10. H. Asama, K. Ozaki, Y. Ishida, M. K. Habib, A. Matsumoto, I. Endo: "Functional Distribution among Multiple Mobile Robots in An Autonomous and Decentralized Robot System", Proc. 1991 IEEE Int. Conf. on Robotic and Automation, pp. 1921-1926 (1991).
11. H. Asama, K. Ozaki, Y. Ishida, M. K. Habib, A. Matsumoto, I. Endo: "Negotiation between Multiple Mobile Robots and an Environment Manager", Proc. 1991 Int. Conf. on Advanced Robotics, pp. 533-538 (1991).
12. Y. Ishida, H. Asama, I. Endo, K. Ozaki, A. Matsumoto: "Communication and Cooperation in the Autonomous and Decentralized Robot System", Proc. 1991 IFAC Int. Symp. on Distributed Intelligence Systems, pp. 299-304 (1991).
13. M. K. Habib, H. Asama: "Efficient Method to Generate Collision Free Paths for Autonomous Mobile Robots Based on New Free Space Structuring Approach", Proc. 1991 IEEE Int. Workshop on Intelligent Robots and Systems, pp. 563-567 (1991).
14. T. Fukuda, G. Xue, F. Arai, H. Asama, H. Omori, I. Endo, H. Kaetsu: "A Study on Dynamically Reconfigurable Robotic Systems: Assembling, Disassembling and Reconfiguration of Cellular Manipulator by Cooperation of Two Robot Manipulators", Proc. 1991 IEEE/RSJ Int. Workshop on Intelligent Robots and Systems, pp. 1184-1189 (1991).
15. H. Asama, K. Ozaki, A. Matsumoto, Y. Ishida, I. Endo: "Collision Avoidance among Multiple Mobile Robots Based on Rules and Communication", Proc. 1991 IEEE/RSJ Int. Workshop on Intelligent Robots and Systems, pp. 1215-1220 (1991).
16. T. Fukuda, H. Ishigami, S. Shiotani, F. Arai, M. Nakajima, H. Asama, T. Nagamune, I. Endo: "Recognition and Counting Method of Mammalian Cells on Micro-carrier Using Image Processing and Neural Network", in Animal Cell Technology: Basic & Applied Aspects (H. Murakami, S. Shirahata and H. Tachibana Eds.), Kluwer Academic Publishers, Dordrecht, vol. 4, pp. 185- 191 (1992).
17. M. Nakajima, T. Siimes, H. Yada, H. Asama, T. Nagamune, P. Linko, I. Endo: "Knowledge Based Diagnosis in Lactic Acid Fermentation", Proc. 2nd IFAC Symp. on Modeling and Control of Biotechnical Processes, pp. 179-183 (1992).
18. M. Nakajima, T. Siimes, H. Yada, H. Asama, T. Nagamune, P. Linko, I. Endo: "On-Line Diagnosis System in Lactic Acid Process", Proc. 1992 Int. Symp. on Advanced Computing for Life-Science, pp. 281-283 (1992).
19. M. Nakajima, T. Siimes, H. Yada, H. Asama, T. Nagamune, P. Linko, I. Endo: "Knowledge-Based

- Diagnosis of Inoculum Properties in Lactic Acid Fermentation”, in *Biochemical Engineering for 2001* (S. Furusaki, I. Endo and R. Matsuno Eds.), Springer-Verlag, Tokyo, pp. 681-684 (1992).
20. M. K. Habib, H. Asama, Y. Ishida, A. Matsumoto, I. Endo: “Simulation Environment for An Autonomous and Decentralized Multi-Agent Robotic System”, *Proc. 1992 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, pp. 1550-1557 (1992).
 21. H. Asama, K. Ozaki, A. Matsumoto, Y. Ishida, M. K. Habib, H. Kaetsu, I. Endo: “A Communication System between Multiple Robotic Agents”, *Proc. 1992 Japan/USA Symp. on Flexible Automation*, pp. 647-654 (1992).
 22. H. Osumi, T. Arai, M. Fujihira, H. Asama: “Crane Type Robot Suspended by Three Wires with Seven Degrees of Freedom”, *Proc. 1992 IFToMM-jc Int. Symp. on Theory of Machines and Mechanisms*, pp. 856-861 (1992).
 23. T. Fukuda, G. Xue, F. Arai, K. Kosuge, H. Asama, H. Omori, I. Endo, H. Kaetsu: “Self-Organizing Manipulator System Based on the Concept of Cellular Robotic System”, *Proc. 1992 IMACS/SICE Int. Symp. on Robotics and Manufacturing Systems*, pp. 1695-1700 (1992).
 24. T. Fukuda, G. Xue, F. Arai, K. Kosuge, H. Asama, H. Ohmori, I. Endo, H. Kaetsu: “Assembly of Self-Organizing Manipulator Using Active Sensing”, *Proc. Int. Symp. on Distributed Autonomous Robotic Systems*, pp. 69-76 (1992).
 25. S. Kotosaka, H. Asama, H. Kaetsu, H. Ohmori, I. Endo, K. Sato, H. Okada, R. Nakayama: “Development of a Functionally Adaptive and Robust Manipulator -Basic Design of the Manipulator and Prototyping of Tactile Force Sensor-”, *Proc. Int. Symp. on Distributed Autonomous Robotic Systems*, pp. 85-90 (1992).
 26. Y. Ishida, S. Tomita, H. Asama, K. Ozaki, A. Matsumoto, I. Endo: “Development of an Integrated Communication System for Multiple Robotic Agents”, *Proc. Int. Symp. on Distributed Autonomous Robotic Systems*, pp. 193-198 (1992).
 27. K. Ozaki, H. Asama, Y. Ishida, A. Matsumoto, H. Kaetsu, I. Endo: “The Cooperation among Multiple Mobile Robots Using a Communication System”, *Proc. Int. Symp. on Distributed Autonomous Robotic Systems*, pp. 199-208 (1992).
 28. T. Arai, H. Osumi, M. Fujihira, H. Asama, I. Endo: “Development of Crane Type Robot Suspended by Three Wires”, *Proc. Int. Symp. on Distributed Autonomous Robotic Systems*, pp. 211-216 (1992).
 29. H. Osumi, T. Arai, H. Asama: “Development of a Crane Type Robot with Three Wires”, *Proc. 23rd Int. Symp. on Industrial Robots*, pp. 561-566 (1992).
 30. S. Kotosaka, H. Asama, H. Kaetsu, I. Endo, K. Sato, S. Okada, R. Nakayama: “Fault Tolerance of a Functionally Adaptive and Robust Manipulator”, *Proc. 1993 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, pp. 294-300 (1993).
 31. K. Ozaki, H. Asama, Y. Ishida, A. Matsumoto, K. Yokota, H. Kaetsu, I. Endo: “Synchronized Motion by Multiple Mobile Robots Using Communication”, *Proc. 1993 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, pp. 1164-1169 (1993).
 32. Y. Ishida, H. Asama, K. Ozaki, K. Yokota, A. Matsumoto, I. Endo: “A Communication System for a Multi-Agent Robotic System”, *Proc. 1993 JSME Int. Conf. on Advanced Mechatronics*, pp. 424-428 (1993).
 33. G. Xue, T. Fukuda, F. Arai, H. Asama, I. Endo, H. Kaetsu: “Assembly Work of Self-Organizing Manipulator Using Active Visual and Force Sensing”, *Proc. 1993 Int. Conf. on Advanced Robotics*, pp. 197-202 (1993).
 34. K. Yokota, T. Suzuki, H. Asama, A. Matsumoto, I. Endo: “A Human Interface System for the Multi-Agent Robotic System”, *Proc. 1994 IEEE Int. Conf. on Robotics and Automation*, pp. 1039-1044 (1994).
 35. Y. Ishida, H. Asama, S. Tomita, K. Ozaki, A. Matsumoto, I. Endo: “Functional Complement by Cooperation of Multiple Autonomous Robots”, *Proc. 1994 IEEE Int. Conf. on Robotics and Automation*, pp. 2476-2481 (1994).
 36. T. Suzuki, K. Yokota, H. Asama, A. Matsumoto, Y. Ishida, H. Kaetsu, I. Endo: “A Human Interface for Interacting with and Monitoring the Multi-Agent Robotic Systems”, *Distributed Autonomous Robotic Systems* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 50-61 (1994).
 37. S. Kotosaka, H. Asama, H. Kaetsu, H. Ohmori, I. Endo, T. Fukuda, F. Arai, G. Xue: “The Design of Communication Network for Dynamically Reconfigurable Robotic System”, *Distributed Autonomous Robotic Systems* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 176-184 (1994).
 38. K. Ozaki, H. Asama, Y. Ishida, K. Yokota, A. Matsumoto, H. Kaetsu, I. Endo: “Negotiation Method for

- Collaborating Team Organization among Multiple Robots”, *Distributed Autonomous Robotic Systems* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 199-210 (1994).
39. H. Osumi, T. Arai, N. Yoshida, Y. Shen, H. Asama, H. Kaetsu, I. Endo: “Cooperative System between a Position-Controlled Robot and a Crane with Three Wires”, *Distributed Autonomous Robotic Systems* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 347-358 (1994).
 40. G. Xue, T. Fukuda, F. Arai, H. Asama, H. Kaetsu, I. Endo: “Dynamically Reconfigurable Robotic System -Assembly of New Type Cells as a Dual-Peg-in-Hole Problem-”, *Distributed Autonomous Robotic Systems* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 383-394 (1994).
 41. H. Asama, K. Ozaki, Y. Ishida, K. Yokota, A. Matsumoto, H. Kaetsu, I. Endo: “Collaborative Team Organization Using Communication in a Decentralized Robotic System”, *Proc. 1994 IEEE/RSJ Int. Conf. on Intelligent Robot and Systems*, pp. 816-823 (1994).
 42. H. Asama, M. Sato, L. Bogoni, H. Kaetsu, A. Matsumoto, I. Endo: “Development of an Omni-Directional Mobile Robot with 3 DOF Decoupling Drive Mechanism”, *Proc. 1995 IEEE Int. Conf. on Robotics and Automation*, pp. 1925-1930 (1995).
 43. T. von Numers, H. Asama, T. Fujita, S. Kotosaka, S. Miyao, H. Kaetsu, I. Endo: “An Intelligent Data Carrier System for Local Communication Between Cooperative Multiple Mobile Robots and Environment”, *Proc. 2nd IFAC Conf. on Intelligent Autonomous Vehicles*, pp. 366-371 (1995).
 44. T. Suzuki, K. Yokota, H. Asama, H. Kaetsu, I. Endo: “Cooperation between the Human Operator and the Multi-Agent Robotic System: Evaluation of Agent Monitoring Methods for the Human Interface System”, *Proc. 1995 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, vol. 1, pp. 206-211 (1995).
 45. S. Suzuki, H. Asama, A. Uegaki, S. Kotosaka, T. Fujita, A. Matsumoto, H. Kaetsu, I. Endo: “An Infra-Red Sensory System with Local Communication for Cooperative Multiple Mobile Robots”, *Proc. 1995 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, vol. 1, pp. 220-225 (1995).
 46. H. Asama, M. Sato, N. Goto, H. Kaetsu, A. Matsumoto, I. Endo: “Mutual Transportation of Cooperative Mobile Robots Using Forklift Mechanisms”, *Proc. 1996 IEEE Int. Conf. on Robotics and Automation*, pp. 1754-1759 (1996).
 47. Y. Arai, S. Suzuki, S. Kotosaka, H. Asama, H. Kaetsu, I. Endo: “Collision Avoidance among Multiple Autonomous Mobile Robots using LOCISS (LOCally Communicable Infrared Sensory System)”, *Proc. 1996 IEEE Int. Conf. on Robotics and Automation*, pp. 2091-2096 (1996).
 48. H. Asama, T. Fujii, H. Kaetsu, I. Endo and T. Fujita: “Distributed Task Processing by a Multiple Autonomous Robot System Using An Intelligent Data Carrier System”, in *Robotic and Manufacturing Systems Vol. 3* (M. Jamshidi and F. Pin Eds.), TSI Press, Albuquerque, pp. 23-28 (1996).
 49. T. Suzuki, T. Fujii, H. Asama, K. Yokota, H. Kaetsu, N. Mitomo, I. Endo: “Cooperation between a Human Operator and Multiple Robots for Maintenance Tasks at a Distance”, in *Distributed Autonomous Robotic Systems 2* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 50-59 (1996).
 50. D. Kurabayashi, J. Ota, T. Arai, S. Ichikawa, S. Koga, H. Asama, I. Endo: “Cooperative Sweeping in Environments with Movable Obstacles”, in *Distributed Autonomous Robotic Systems 2* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 257-267 (1996).
 51. Y. Arai, T. Fujii, H. Asama, T. Fujita, H. Kaetsu, I. Endo: “Self-Localization of Autonomous Mobile Robots Using Intelligent Data Carriers”, in *Distributed Autonomous Robotic Systems 2* (H. Asama, T. Fukuda, T. Arai and I. Endo Eds.), Springer-Verlag, Tokyo, pp. 401-410 (1996).
 52. T. Fujii, H. Asama, T. Fujita, Y. Asakawa, H. Kaetsu, A. Matsumoto and I. Endo: “Knowledge Sharing among Multiple Autonomous Mobile Robots through Indirect Communication using Intelligent Data Carriers”, *Proc. 1996 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, pp. 1466-1471 (1996).
 53. D. Kurabayashi, J. Ota, T. Arai, S. Ichikawa, S. Koga, H. Asama, I. Endo: “Cooperative Sweeping by Multiple Mobile Robots with Relocating Portable Obstacles”, *Proc. 1996 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, pp. 1472-1477 (1996).
 54. T. Suzuki, T. Fujii, K. Yokota, H. Asama, H. Kaetsu, I. Endo: “Teleoperation of Multiple Robots through the Internet”, *Proc. 5th IEEE Int. Workshop on Robots and Human Communication*, pp. 84-89 (1996).
 55. S. Takata, H. Shiono, H. Hiraoka and H. Asama: “Case Based Evaluation of Component Deterioration for Facility Maintenance”, *Proc. 1996 ASME Int. Mechanical Engineering Congress and Exposition (ME '96)*, pp. 563-568 (1996).
 56. S. Takata, H. Hiraoka, T. Kohda and H. Asama: “Computer Assisted Maintenance Management Using Model-Based Life Cycle Simulation”, *1997 Maintenance and Reliability Conf. Proc.*, pp. 73.01-

- 73.15, (1997).
57. Y. Arai, T. Fujii, H. Asama, Y. Kataoka, H. Kaetsu, A. Matsumoto, I. Endo: "Adaptive Behavior Acquisition of Collision Avoidance among Multiple Autonomous Mobile Robots", Proc. 1997 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1762-1767 (1997).
 58. T. Fujii, H. Asama, T. Fujita, H. Kaetsu, A. Matsumoto, I. Endo: "Intelligent Data Carrier System for Cooperative Behaviors Emerged among Collective Robots", Proc. 1997 IEEE Int. Conf. on Systems, Man, and Cybernetics, pp. 299-304 (1997).
 59. K. Kawabata, T. Ishikawa, T. Fujii, T. Noguchi, H. Asama, I. Endo: "Teleoperation of Autonomous Mobile Robot under Limited Feedback Information", Field and Service Robotics, Springer Verlag, pp.146-151 (1998).
 60. T. Fujii, Y. Arai, H. Asama, I. Endo: "Multilayered Reinforcement Learning for Complicated Collision Avoidance Problems", Proc. 1998 IEEE Int. Conf. on Robotics and Automation, pp. 2186-2191 (1998).
 61. K. Hosokawa, T. Tsujimori, T. Fujii, H. Kaetsu, H. Asama, Y. Kuroda, I. Endo: "Self-Organizing Collective Robots with Morphogenesis in a Vertical Plane", Proc. 1998 IEEE Int. Conf. on Robotics and Automation, pp. 2858-2863 (1998).
 62. D. Kurabayashi, S. Koga, T. Arai, J. Ota, H. Asama, I. Endo: "Local Path Re-planning for Unforeseen Obstacle Avoidance by an Autonomous Sweeping Robot", Proc. 1998 IEEE Int. Conf. on Robotics and Automation, pp. 3153-3158 (1998).
 63. Y. Arai, T. Fujii, H. Asama, H. Kaetsu, I. Endo: "Robust Collision Avoidance in Multi-Robot Systems - Implementation onto Real Robots -", in Distributed Autonomous Robotic Systems 3, Springer, Berlin, pp. 23-33 (1998).
 64. K. Hosokawa, T. Tsujimori, T. Fujii, H. Kaetsu, H. Asama, Y. Kuroda, I. Endo: "Mechanisms for Self-Organizing Robots Which Reconfigure in a Vertical Plane", in Distributed Autonomous Robotic Systems 3, Springer, Berlin, pp. 111-118 (1998).
 65. K. Kosuge, T. Oosumi, H. Asama, T. Fujii, H. Kaetsu: "Coordinate Motion Control of Multiple Autonomous Mobile Robots Based on Compliant Motion Control", in Distributed Autonomous Robotic Systems 3, Springer, Berlin, pp. 141-150 (1998).
 66. D. Kurabayashi, T. Arai, K. Iwase, J. Ota, H. Asama, I. Endo: "Real-time Path Adaptation for Sweeping by Autonomous Mobile Robots", in Distributed Autonomous Robotic Systems 3, Springer, Berlin, pp. 299-308 (1998).
 67. T. Ishikawa, K. Kawabata, Y. Ueda, H. Asama, I. Endo: "Graphical User Interface for Collaborative System of Human and Mobile Robots with Sensors", in Distributed Autonomous Robotic Systems 3, Springer, Berlin, pp. 319-328 (1998).
 68. K. Yokota, K. Ozaki, A. Matsumoto, K. Kawabata, H. Kaetsu, H. Asama: "Modeling Environment and Tasks for Cooperative Team Play", in Distributed Autonomous Robotic Systems 3, Springer, Berlin, pp. 361-370 (1998).
 69. I. Endo, T. Suzuki, Y. Sakino, T. Fujii, H. Kaetsu, H. Asama: "An Adaptive Multirobot Scheduling System for Maintenance of a Bioplane", Proc. 1998 IFAC Computer Applications in Biotechnology, pp. 233-238 (1998).
 70. Y. Asahiro, H. Asama, S. Fujita, I. Suzuki, and M. Yamashita: "Distributed Algorithms for Carrying a Ladder by Omnidirectional Robots in Near Optimal Time", in Lecture Notes in Artificial Intelligence 1724 (Int. Workshop on Modeling and Planning for Sensor-based Intelligent Robot Systems, Selected Papers), edited by H. I. Christensen, H. Bunke, H. Noltemeier, Springer, pp. 240-254 (1998).
 71. A. Yamada, M. Kurihara, S. Takata, H. Asama, T. Kohda: "Life-Cycle Simulation Applied to the Operation Planning of Robot Manipulators", Proc. CIRP 5th Int. Seminar of Life Cycle Engineering, pp. 265-274 (1998).
 72. T. Sekine, T. Suzuki, T. Oura, K. Kawabata, T. Fujii, H. Asama, K. Sato, I. Endo: "Mobile Robot Teleoperation System with Virtual Environment", Proc. 1998 IEEE Int. Workshop on Robots and Human Communication, pp. 613-618 (1998).
 73. K. Kosuge, T. Oosumi, Y. Hirata, H. Asama, H. Kaetsu, K. Kawabata: "Handling of a Single Object by Multiple Autonomous Mobile Robots in Coordination with Body Force Sensor", Proc. 1998 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1419-1424 (1998).
 74. Y. Fujita, S. Fujita, M. Yamashita, I. Suzuki, H. Asama: "Learning-based Automatic Generation of Collision Avoidance Algorithms for Multiple Autonomous Mobile Robots", Proc. 1998 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1553-1558 (1998).
 75. Y. Arai, T. Fujii, H. Asama, H. Kaetsu, I. Endo: "Realization of Autonomous Navigation in Multirobot

- Environment", Proc. 1998 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1999-2004 (1998).
76. D. Kurabayashi, H. Asama, T. Fujii, H. Kaetsu, I. Endo: "Development of an Intelligent Data Carrier (IDC) System and its Applications", Proc. 4th Int. Symp. on Artificial Life and Robotics, pp. 34-39 (1999).
 77. K. Kosuge, Y. Hirata, K. Takeo, H. Asama, H. Kaetsu, K. Kawabata: "Intelligent Control of Robots in Coordination", Proc. 4th Int. Symp. on Artificial Life and Robotics, pp. 50-53 (1999).
 78. T. Kohda, K. Inoue, S. Takata, H. Asama: "Disturbance Analysis Using a System Bond-Graph Model", Proc. 1999 Int. Symp. on Product Quality and Integrity (Reliability and Maintainability Symp.), pp. 358-364 (1999).
 79. K. Kosuge, Y. Hirata, H. Asama, H. Kaetsu, K. Kawabata: "Handling of a Single Object by Multiple Autonomous Mobile Robots in Coordination", Proc. Pioneering Int. Symp. on MOVIC in Mechatronics, pp. 34-39 (1999).
 80. K. Kosuge, Y. Hirata, H. Asama, H. Kaetsu, K. Kawabata: "Motion Control of Multiple Autonomous Mobile Robots Handling of a Large Object in Coordination", Proc. 1999 IEEE Int. Conf. on Robotics and Automation, pp. 2666-2673 (1999).
 81. K. Kosuge, Y. Hirata, M. Sato, H. Asama, H. Kaetsu, K. Kawabata: "Intelligent Control of Multiple Mobile Robots Handling a Single Object in Coordination", Proc. 2nd Int. Conf. on Recent Advances in Mechatronics, pp. 419-424 (1999).
 82. I. E. Paromtchik, H. Asama, T. Fujii, I. Endo: "A Control System for an Omnidirectional Mobile Robot", Proc. 1999 IEEE Int. Conf. on Control Applications, pp. 1123-1128 (1999).
 83. Y. Hirata, K. Kosuge, H. Asama, H. Kaetsu, K. Kawabata: "Decentralized Control of Mobile Robots in Coordination", Proc. 1999 IEEE Int. Conf. on Control Applications, pp. 1129-1134 (1999).
 84. K. Kawabata, T. Ishikawa, H. Asama, I. Endo: "Mobile Robot Teleoperation using Local Storages", Proc. 1999 IEEE Int. Conf. on Control Applications, pp. 1141-1145 (1999).
 85. K. Konishi, D. Kurabayashi, H. Asama, S. Shin: "Analysis of Emergence by Intelligent Data Carrier System for Collective Robots based on Stochastic Models", Proc. 1999 IEEE Int. Conf. on Systems, Man, and Cybernetics, pp. IV 769-774 (1999).
 86. Y. Asahiro, H. Asama, I. Suzuki, M. Yamashita: "Improvement of Distributed Control Algorithms for Robots Carrying an Object", Proc. 1999 IEEE Int. Conf. on Systems, Man, and Cybernetics, pp. VI 608-613 (1999).
 87. T. Sekine, T. Suzuki, K. Kawabata, T. Fujii, H. Asama, K. Sato, I. Endo: "Mobile Robot Teleoperation System Utilizing Virtual World", Proc. 1999 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1727-1732 (1999).
 88. D. Kurabayashi, H. Asama: "Knowledge Sharing and Cooperation of Autonomous Robots by Intelligent Data Carrier System", Proc. 2000 IEEE Int. Conf. on Robotics and Automation, pp. 464-469 (2000).
 89. I. Paromtchik, H. Asama: "A Motion Generation Approach for an Omnidirectional Vehicle", Proc. 2000 IEEE Int. Conf. on Robotics and Automation, pp. 1213-1218 (2000).
 90. A. Yamashita, M. Fukuchi, J. Ota, T. Arai, H. Asama: "Motion Planning for Cooperative Transportation of a Large Object by Multiple Mobile Robots in a 3D Environment", Proc. 2000 IEEE Int. Conf. on Robotics and Automation, pp. 3144-3151 (2000).
 91. N. Miyata, J. Ota, Y. Aiyama, H. Asama, T. Arai: "Cooperative Transport in Unknown Environment - Application of Real-time Task Assignment -", Proc. 2000 IEEE Int. Conf. on Robotics and Automation, pp. 3176-3182 (2000).
 92. I. E. Paromtchik, H. Asama: "Motion Control of Visually-Coupled Mobile Robots", Proc. 3rd Asian Control Conf., pp. 2871-2876 (2000).
 93. I. E. Paromtchik, H. Asama: "Toward Optical Guidance of Mobile Robots", Proc. 2000 World MultiConf. on Systemics, Cybernetics and Informatics, pp. 44-49 (2000).
 94. M. Hoshino, H. Asama, K. Kawabata, Y. Kunii, I. Endo: "Communication Learning for Cooperation among Autonomous Robots", Proc. 2000 IEEE Int. Conf. on Industrial Electronics, Control and Instrumentation, pp. 2111-2116 (2000).
 95. D. Kurabayashi, K. Konishi, H. Asama: "Performance Evaluation of Autonomous Knowledge Acquisition and Sharing by Intelligent Data Carriers", in Distributed Autonomous Robotic Systems 4 (L. E. Parker, G. Bekey, J. Barhen Eds.), Springer-Verlag, Tokyo, pp. 69-78 (2000).
 96. Y. Arai, H. Asama, H. Kaetsu, I. Endo: "Distance Measuring in Multi-Robot Systems based on Time Shared Scheduling", in Distributed Autonomous Robotic Systems 4 (L. E. Parker, G. Bekey, J. Barhen

- Eds.), Springer-Verlag, Tokyo, pp. 189-198 (2000).
97. K. Kawabata, T. Ishikawa, T. Fujii, H. Asama, I. Endo: "A Behavior Learning Method of a Mobile Robot Using View Information", Proc. 2000 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1050-1055 (2000).
 98. Y. Hirata, K. Kosuge, H. Asama, H. Kaetsu, K. Kawabata: "Coordinated Transportation of a Single Object by Multiple Mobile Robots without Position Information of Each Robot", Proc. 2000 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 2024-2029 (2000).
 99. T. Suzuki, T. Sekine, T. Fujii, H. Asama, I. Endo: "Cooperative Formation among Multiple Mobile Robot Teleoperation in Inspection Task", Proc. 39th IEEE Conf. on Design and Control, pp. 358-363 (2000).
 100. T. Kohda, K. Inoue, H. Asama: "Computer-Aided Failure Effect Analysis Using System Bond Graphs", Proc. 2001 Int. Conf. on Bond Graph Modeling and Simulation, pp. 71-76, (2001).
 101. I. E. Paromtchik, H. Asama: "Mobile Robot Guidance by Means of a Laser Pointer", Proc. 2001 IASTED Int. Conf. Modelling, Identification, and Control, pp. 718-723 (2001).
 102. H. Asama, D. Kurabayashi, H. Tashiro: "Victim Search in Rescue using Intelligent Data Carriers", Proc. 32nd Int. Symp. on Robotics, pp. 1612-1616 (2001).
 103. H. Asama, D. Kurabayashi, T. Fujii, K. Kawabata, Y. Arai, H. Kaetsu, I. Endo, H. Tashiro: "Development of Intelligent Data Carrier Systems for Cooperative Organization of Multiple Robots and Their Operating Environment", Preprints 2001 IFAC Workshop on Mobile Robot Technology, pp. 238-243 (2001).
 104. I. E. Paromtchik, H. Asama: "Optical Guidance System for Multiple Mobile Robots", Proc. 2001 IEEE Int. Conf. on Robotics and Automation, pp.2935-2940 (2001).
 105. Y. Kume, Y. Hirata, K. Kosuge, H. Asama, H. Kaetsu, K. Kawabata: "Decentralized Control of Multiple Mobile Robots Transporting a Single Object in Coordination without Using Force/Torque Sensors", Proc. 2001 IEEE Int. Conf. on Robotics and Automation, pp.3004-3009 (2001).
 106. Y. Hirata, T. Takagi, K. Kosuge, H. Asama, H. Kaetsu, K. Kawabata: "Map-based Control of Distributed Robot Helpers for Transporting an Object in Cooperation with a Human", Proc. 2001 IEEE Int. Conf. on Robotics and Automation, pp.3010-3015 (2001).
 107. D. Kurabayashi, H. Asama: "Navigation Method by Distributed Map Management For Autonomous Bush Removal Robot", Proc. 3rd Int. Conf. on Field and Service Robotics, pp. 361-366 (2001).
 108. A. Yamashita, H. Asama, H. Kaetsu, I. Endo, T. Arai: "Development of a Step-Climbing Omni-Directional Mobile Robot", Proc. 3rd Int. Conf. on Field and Service Robotics, pp. 327-332 (2001).
 109. I. E. Paromtchik, H. Asama: "Laser-Based Guidance of Multiple Mobile Robots", Proc. IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics, pp. 410-415 (2001).
 110. I. E. Paromtchik, D. Kurabayashi, H. Asama: "Approach to Global and Local Guidance of Multiple Mobile Robots", Preprints 4th IFAC Symp. on Intelligent Autonomous Vehicles, pp. 350-355 (2001).
 111. A. Yamashita, J. Ota, T. Arai, K. Ichikawa, K. Kamata, H. Asama: "Cooperative Manipulation and Transportation of a Large Object by Multiple Mobile Robots", Preprints 4th IFAC Symp. on Intelligent Autonomous Vehicles, pp. 400-402 (2001).
 112. Y. Hirata, T. Takagi, K. Kosuge, H. Asama, H. Kaetsu, K. Kawabata: "Manipulation of a Large Object by Multiple Dr. Helpers in Cooperation with a Human", Proc. 2001 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 126-131 (2001).
 113. D. Kurabayashi, H. Asama, K. Noda, I. Endo, H. Hashimoto: "Information Assistance in Rescue using Intelligent Data Carriers", Proc. 2001 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 2294-2299 (2001).
 114. K. Kawabata, S. Okina, T. Fujii, H. Asama: "A Study of Self-diagnosis System for an Autonomous Mobile Robot: Coping with Self-Condition using Internal Sensory Information", Proc. 27th Annual Conf. of IEEE Industrial Electronics Society, pp. 381-386 (2001).
 115. Y. Hirata, T. Takagi, K. Kosuge, H. Asama, H. Kaetsu, K. Kawabata: "Motion Control of Multiple Dr. Helpers Transporting a Single Object in Cooperation with a Human Based on Map Information", Proc. 2002 IEEE Int. Conf. on Robotics and Automation, pp.995-1000 (2002).
 116. N. Miyata, J. Ota, H. Asama, T. Arai: "Cooperative Transport in Unknown Environment with Dynamic Task Assignment", Video Proc. 2002 IEEE Int. Conf. Robotics and Automation, (2002).
 117. K. Kawabata, H. Asama, M. Tanaka: "A study of communication emergence among mobile robots: Simulations of intention transmission", Distributed Autonomous Robotic Systems 5, Springer-Verlag, Tokyo, pp. 71-80 (2002).

118. Y. Arai, H. Asama, H. Kaetsu: "Map acquisition in Multi-Robot Systems based on time shared scheduling", Distributed Autonomous Robotic Systems 5, Springer-Verlag, Tokyo, pp. 309-318 (2002).
119. D. Kurabayashi, H. Asama: "Heuristic Approach of a Distributed Autonomous Guidance System to Adapt to the Dynamic Environment", Distributed Autonomous Robotic Systems 5, Springer-Verlag, Tokyo, pp. 363-372 (2002).
120. C. Trevai, K. Ichikawa, Y. Fukazawa, H. Yuasa, J. Ota, T. Arai, H. Asama: "Real-time cooperative exploration by reaction-diffusion equation on a graph", Distributed Autonomous Robotic Systems 5, Springer-Verlag, Tokyo, pp. 383-392 (2002).
121. I. E. Paromtchik, D. Kurabayashi, H. Asama: "Approach to global and local guidance of multiple mobile robots", Intelligent Autonomous Vehicles 2001, Pergamon, U.K., pp. 327-332 (2002).
122. A. Yamashita, J. Ota, T. Arai, K. Ichikawa, K. Kamata, H. Asama: "Cooperative manipulation and transportation of a large object by multiple mobile robots", Intelligent Autonomous Vehicles 2001, Pergamon, U.K., pp. 375-380 (2002).
123. K. Saito, K. Kawabata, S. Kunimitsu, H. Asama, T. Mishima: "Development of crystallization distinction supporting system using image processing", Proc. 2002 Int. Technical Conf. on Circuits/Systems, Computers and Communications (ITC-CSCC 2002), pp. 1788-1791 (2002).
124. S. Kunimitsu, H. Asama, K. Kawabata, T. Mishima: "Measurement of Relative Position between Spreader and Target Container with Image Processing (Proposal for Composition of New Template Image)" Proc. 2002 Int. Technical Conf. on Circuits/Systems, Computers and Communications (ITC-CSCC 2002), pp. 1224-1227 (2002).
125. H. Asama, D. Kurabayashi, K. Noda: "Ubiquitous information infrastructure for rescue" Proc. SICE Ann. Conf. 2002 in Osaka (SICE2002), pp. 1095-1098 (2002).
126. K. Kawabata, T. Akamatsu, H. Asama: "A study of self-diagnosis system of an autonomous mobile robot: Expansion of state sensory system", Proc. 2002 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS 2002), pp. 1802-1807 (2002).
127. D. Kurabayashi, T. Kushima, H. Asama: "Performance of decision making: individuals and an environment", Proc. 2002 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS 2002), pp. 2831-2836 (2002).
128. C. Trevai, Y. Fukazawa, H. Yuasa, J. Ota, T. Arai, H. Asama: "Cooperative Exploration Path Planning for Mobile Robots by Reaction-Diffusion Equation on Graph", Proc. 2002 IEEE Int. Conf. on Industrial Technology (ICIT'02), pp. 1266-1271 (2002).
129. D. Kurabayashi, H. Tsuchiya, I. Fujiwara, H. Asama, K. Kawabata: "Motion algorithm for autonomous rescue agents based on information assistance system", Proc. 2003 IEEE Int. Symp. on Computational Intelligence in Robotics and Automation, pp. 1132-1137 (2003).
130. C. Trevai, Y. Fukazawa, J. Ota, H. Yuasa, T. Arai, H., Asama.: "Cooperative Exploration of Mobile Robots Using Reaction-Diffusion Equation on a Graph", Proc. the 2003 IEEE Int. Conf. on Robotics and Automation (ICRA 2003), pp. 2269-2274 (2003).
131. Y. Fukazawa, C. Trevai, J. Ota, H. Yuasa, T. Arai, H., Asama.: "Region Exploration Path Planning for a Mobile Robot Expressing Working Environment by Grid Points", Proc. the 2003 IEEE Int. Conf. on Robotics and Automation (ICRA 2003), pp. 2448-2454 (2003).
132. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Development of omni-directional vehicle with step-climbing ability", Proc. the 2003 IEEE Int. Conf. on Robotics and Automation (ICRA 2003), pp. 3849-3854 (2003).
133. H. Asama, M. Yano, K. Tsuchiya, K. Ito, H. Yuasa, J. Ota, A. Ishiguro, T. Kondo: "System Principle on Emergence of Mobiligenc", Proc. SICE Ann. Conf. 2003, Fukui, Japan, Aug., pp. 3042-3045 (2003).
134. K. Saitoh, K. Kawabata, S. Kunimitsu, H. Asama, T. Mishima: "A Method for Classifying Protein Crystallization States - An Approach based on Texture Analysis Method -", Proc. the 2003 Int. Technical Conf. on Circuits/Systems, Computers, and Communications (ITC-CSCC 2003), Vol.1, pp. 655-658 (2003).
135. T. Sugihara, K. Kawabata, H. Asama, T. Mishima: "Implementation of Control System on the Ubiquitous Computing Device", Proc. the 2003 Int. Technical Conf. on Circuits/Systems, Computers, and Communications (ITC-CSCC 2003), pp. 1881-1884 (2003).
136. S. Chihara, K. Kawabata, H. Asama, T. Mishima: "Practical System Design and Implementation for Soccer Robot Platform", Proc. the 2003 Int. Technical Conf. on Circuits/Systems, Computers, and Communications (ITC-CSCC 2003), pp. 1966-1969 (2003).
137. K. Fujita, A. Yamashita, T. Kaneko, H. Asakura, K. Miura, H. Asama: "Navigation Planning of

- Autonomous Mobile Robots with Multiple Observation Strategies”, Proc. the 6th Japan-France Congress on Mechatronics and 4th Asia-Europe Congress on Mechatronics, pp. 489-494 (2003).
138. T. Fraichard, H. Asama: “Inevitable Collision States A Step Towards Safer Robots?”, Proc. the 2003 IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems, pp.388-393 (2003).
 139. H. Asama, M. Yano, K. Tsuchiya, K. Ito, H. Yuasa, J. Ota, A. Ishiguro, T. Kondo: “System Principle on Emergence of Mobiligence and Its Engineering Realization”, Proc. the 2003 IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems, pp. 1715-1720 (2003).
 140. Y. Fukazawa, C. Trevai, J. Ota, H. Yuasa, T. Arai, H. Asama: “Controlling a Mobile Robot That Searches for and Rearranges Objects with Unknown Locations and Shapes”, Proc. the 2003 IEEE/RSJ Intl. Conf. on Intelligent Robots and Systems, pp. 1721-1726 (2003).
 141. S. Kunimitsu, K. Kawabata, H. Asama, T. Mishima: “Detection of object under outdoor environment with binary edge template and its application to automatic cranes”, Proc. 2003 IEEE Int. Conf. on Industrial Technology, pp. 140-145 (2003).
 142. T. Suzuki, T. Uehara, K. Kawabata, D. Kurabayashi, I. E. Paromtchik, H. Asama: “Indoor navigation for mobile robot by using environment-embedded local information management device and optical pointer”, Preprints on 4th Int. Conf. on Field and Service Robotics, Yamanaka-lake, Japan, July, pp. 23-28 (2003).
 143. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama: “Development of a control system of an omni-directional vehicle with a step climbing ability”, Preprints on 4th Int. Conf. on Field and Service Robotics, Yamanaka-lake, Japan, July, pp. 121-126 (2003).
 144. K. Kawabata, M. Doi, D. Chugo, H. Kaetsu, H. Asama: “Vehicle guidance system using local information assistants”, Proc. 2004 Int. Symp. on Distributed Autonomous Robotic Systems (DARS 2004), pp. 81-90 (2004).
 145. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: “Vehicle Control Based on Body configuration”, Proc. 2004 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 1493-1498 (2004).
 146. K. Saitoh, K. Kawabata, S. Kunimitsu, H. Asama, T. Mishima: “Evaluation of Protein Crystallization States based on Texture Information”, Proc. 2004 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 2725-2730 (2004).
 147. S. Kunimitsu, H. Asama, K. Kawabata, T. Mishima: “Detection of Object under Outdoor Environment with Partial and Whole Templates”, Proc. 2004 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 3050-3055 (2004).
 148. A. Yamashita, K. Fujita, T. Kaneko, H. Asama: “Path and Viewpoint Planning of Mobile Robots with Multiple Observation Strategies”, Proc. 2004 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, pp. 3195-3200 (2004).
 149. T. Sato, H. Asama, N. Kita, K. Kawabata, M. Numano, Y. Niwa, Q. Liu, H. Yang, N. Watanabe, “Digital Maintenance Field Technology for the Maintenance of Nuclear Power Plant”, The 6th Int. Conf. Nuclear Thermal Hydraulics, Operations and Safety (NUTHOS-6), N6P311-1-18 (2004).
 150. K. Kawabata, N. Watanabe, H. Asama, N. Kita, H. Yang, “Mobile Robot Teleoperation System for Plant Inspection based on Collecting and Utilizing Environment Data”, The 6th Int. Conf. Nuclear Thermal Hydraulics, Operations and Safety (NUTHOS-6), N6P118-1-16 (2004).
 151. K. Kawabata, K. Saitoh, H. Asama, M. Sugahara, S. Kunimitsu, T. Mishima, M. Miyano: “Protein crystallizing state discrimination based on image processing”, Proc. 1st IEEE Technical Exhibition Based Conf. on Robotics and Automation (TExCRA 2004), pp. 059-1-2 (2004).
 152. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: “Wheel control based on body configuration for step-climbing vehicle”, Preprints Int. Conf. on Field and Service Robotics (FSR2005), pp. 249-260, Port Douglas, Australia, Jul. (2005).
 153. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: “Mechanical design of step-climbing vehicle with passive linkages”, Proc. 8th Int. Conf. on Climbing and Walking Robots and the Support Technologies for Mobile Machines (CLAWAR 2005), pp. 287-294, London, UK, Sep. (2005).
 154. Y. Hada, K. Kawabata, H. Kaetsu, H. Asama: “Autonomous blimp system for aerial infrastructure”, Proc. 2nd Int. Conf. on Ubiquitous Robots and Ambient Intelligence, pp. 162-165, Daejeon, Korea, Nov. (2005).
 155. M. Takahashi, K. Kawabata, K. Saitoh, M. Sugahara, H. Asama, T. Mishima: “Protein Crystal State Discrimination Method by Extracting Line Features on the Image”, Proc. 31st Conf. of the IEEE Industrial Electronics Society (IECON 2005), pp. 112-117, North Carolina, USA, Nov. (2005).

156. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Step Climbing Omnidirection Mobile Robot with Passive Linkages", Proc. SPIE Int. Symp. on Optomechatronic Technologies (ISOT2005), pp. 6052K-1-12, Japan, Dec. (2005).
157. H. Asama, A. Morimoto, K. Kawabata, Y. Hada: "A Human Behavior Discrimination Method based on Motion Trajectory Measurement for Indoor Guiding Services", Proc. 9th Int. Conf. on Intelligent Autonomous Systems 9 (IAS-9), pp. 891-900, Kashiwa, Japan, Mar. (2006).
158. T. Fujiki, K. Kawabata, H. Asama: "Adaptive Action Selection of Body Expansion Behavior in Multi-Robot System using Communication", Proc. 9th Intelligent Conf. on Intelligent Autonomous Systems 9 (IAS-9), pp.632-639 (2006).
159. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, N. Miyake, K. Kosuge: "Force Assistance System for Standing-Up Motion", Proc. the 2006 IEEE Int. Conf. on Mechanics and Automation, pp.1103-1108, Luoyang, China, June (2006).
160. K. Saitoh, K. Kawabata, H. Asama, T. Mishima, M. Sugahara: "Design of Classifier to Automate the Evaluation of Protein Crystallization States", Proc. the 2006 IEEE Int. Conf. on Robotics and Automation (ICRA2006), pp.1800-1805, Orlando, Florida, USA, May (2006).
161. K. Kawabata, Y. Hada, H. Kaetsu, H. Asama: "Ubiquitous Victim Search Device: Intelligent Data Carrier for Rescue", Proc. the 2006 IEEE Int. Conf. on Robotics and Automation (ICRA2006), pp.4306-4308, Orlando, Florida, USA, May (2006).
162. D. Chugo, K. Kawabata, H. Okamoto, H. Kaetsu, H. Asama, N. Miyake, K. Kosuge: "Force Assistance System for Standing-Up Motion", Proc. the 9th Int. Conf. on Climbing and Walking Robots (CLAWAR 2006), pp.65-70, Brussels, Belgium, Sep. (2006).
163. Y. Sakaida, D. Chugo, K. Kawabata, H. Kaetsu, H. Asama: "The Analysis of Excavator Operation by Skillful Operator", Proc. 23rd Int. Symp. on Automation and Robotics in Construction ISARC 06), Tokyo, Japan, Oct. 3-5, pp. 543-547, (2006).
164. H. Fukushima, R. Saito, F. Matsuno, Y. Hada, K. Kawabata, H. Asama: "Model Predictive Control of an Autonomous Blimp with Input and Output Constraints", Proc. 2006 IEEE Int. Conf. on Control Applications, pp. 2184-2189, Munich, Germany, Oct. (2006).
165. Y. Hada, K. Kawabata, H. Koguchi, H. Kaetsu, H. Asama: "Rescue Communicators for Global Victim Search and Local Rescue Planning", Proc. the 2006 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, Beijing, China, Oct. 9-15, pp. 3510-3513, (2006).
166. D. Chugo, K. Kawabata, H. Kaetsu, H. Asama, T. Mishima: "Plural Wheels Control based on Slip Estimation", Proc. the 2006 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems, Beijing, China, Oct. 9-15, pp. 5558-5563, (2006).
167. H. Asama, Y. Hada, K. Kawabata, I. Noda, O. Takizawa, J. Meguro, K. Ishikawa, T. Hashizume, T. Ohga, M. Hatayama, F. Matsuno, S. Todokoro: "Rescue Infrastructure for Global Information Collection", SICE-ICASE Int. Joint Conf. 2006, pp. 3443-3448, Busan, Korea, Oct. (2006).
168. H. Fukushima, K. Kon, F. Matsuno, Y. Hada, K. Kawabata, H. Asama: "Constrained Model Predictive Control: Applications to Multi-Vehicle Formation and Autonomous Blimp", SICE-ICASE Int. Joint Conf. 2006, pp. 4515-4520, Busan, Korea, Oct. (2006).
169. O. Takizawa, A. Shibayama, M. Hosokawa, K. Takanashi, M. Murakami, Y. Hisada, Y. Hada, K. Kawabata, I. Noda, H. Asama: "Hybrid radio frequency identification system for use in disaster relief as positioning source and emergency message boards", 2007 Int. Workshop on Mobile Information Technology for Disaster Response (Mobile Response 2007), p.1-10, Sankt Augustin, Germany, Feb. (2007).
170. D. Chugo, W. Matsuoka, S. Jia, K. Takase, H. Asama: "Standing assistance system for rehabilitation walker", Preprints of 2007 Int. Symp. on Field and Service Robotics (FSR 2007), pp. 412-421, Chamonix, France, July (2007).
171. H. Fukushima, K. Kon, Y. Hada, F. Matsuno, K. Kawabata, H. Asama: "State-Predictive Control of an Autonomous Blimp in the Presence of Time Delay and Disturbance", Proc. IEEE Int. Conf. on Control Applications, pp. 188-193, Singapore, Oct. (2007).
172. K. Nakajima, S. Morishita, T. Kazawa, M. Otake, R. Kanzaki, H. Asama, T. Mishima: "Compensation of binarized CLSM images for extraction of the form of a single neuron in the silkworm moth brain", Proc. 2008 IEEE Int. Conf. on Robotics and Biomimetics, Sanya, China, Dec. (2007).
173. M. Otake, K. Arai, M. Kato, T. Maeda, Y. Ikemoto, K. Kawabata, T. Takagi, H. Asama: "Experimental Analysis and Computational Simulation of the Attribution of Own Actions by the Multiple Forward Models", Proc. 2008 IEEE Int. Conf. on Robotics and Biomimetics, Sanya, China, Dec. (2007).

174. M. Otake, T. Takagi, H. Asama: "Open Brain Simulator Estimating Internal State of Human through External Observation towards Human Biomechatronics", Proc. 2008 IEEE Int. Conf. on Robotics and Automation, pp. 1089-1093, Pasadena, USA, May (2008).
175. M. Murabayashi, Y. Ikemoto, M. Otake, T. Maeda, M. Kato, H. Asama: "Analysis of the Sense of Agency using a Tactile Device", Proc. 17th CISM-IFTOMM Symp. on Robot Design, Dynamics, and Control (RoManSy 2008), pp. 35-42, Tokyo, Japan July (2008).
176. Y. Ikemoto, S. Suzuki, H. Okamoto, H. Murakami, X. Lin, H. Itoh, H. Asama: "Monitoring using Passive RFID Tags for Structural Health Monitoring", Proc. 2nd IEEE Int. Interdisciplinary Conf. on Portable Information Devices (Portable 2008), pp. 1-6, Garmisch-Partenkirchen, Germany, Aug. (2008).
177. M. Ikeda, Y. Ikemoto, T. Miura, H. Asama: "A Termite Internal State Model for Elucidating Caste Differentiation", Proc. 2008 SICE Annual Conf., pp.142-145, Tokyo, Japan, Aug. (2008).
178. Y. Sakaida, D. Chugo, H. Yamamoto, H. Asama: "The Analysis of Excavator Operation by Skillful Operator – Extraction of common skills -", Proc. 2008 SICE Annual Conf., pp. 538-542, Tokyo, Japan, Aug. (2008).
179. D. Chugo, K. Kawabata, H. Kaetsu, S. Jia, H. Asama, T. Mishima, K. Takase: "3D Odometry Based on Body Configuration", Proc. 2008 SICE Annual Conf., pp. 695-700, Tokyo, Japan, Aug. (2008).
180. Y. Hada, O. Takizawa, K. Kawabata, H. Kaetsu, T. Kohno, M. Nakadate, H. Asama: "Information acquisition using intelligent sensor nodes and an autonomous blimp", Proc. 2008 SICE Annual Conf., pp. 988-991, Tokyo, Japan, Aug. (2008).
181. K. Ishizu, H. Takemura, K. Kawabata, H. Asama, T. Mishima, H. Mizoguchi: "Image Processing of Particle Detection for Asbestos Qualitative Analysis Support Method -Particle Counting by Using Color Variance of Background-", Proc. 2008 SICE Annual Conf., pp. 3202-3207, Tokyo, Japan, Aug. (2008).
182. S. Morishita, H. Yokota, H. Asama, R. Himeno, T. Mishima: "Compensation method for quantitative observation of multicolor fluorescence with nonlinear mapping", Proc. SPIE Conf. on Mathematics of Data/Image Pattern Recognition, Compression, and Encryption with Applications XI, pp. 1-10, San Diego, USA, Aug. (2008).
183. H. Kumagai, S. Morishita, K. Kawabata, H. Asama, T. Mishima: "Accuracy Improvement of Counting Asbestos in Particles using a Noise Redacted Background Subtraction", Proc. 2008 IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI 2008), pp. 74-79, Seoul, Korea, Aug. (2008).
184. K. Nakajima, S. Morishita, T. Kazawa, R. Kanzaki, H. Asama, T. Mishima: "Interpolation of the Cross-sectional Area of a Premotor Neuron in a Silkworm Moth Brain using the Ellipse Model", Proc. 2008 IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI 2008), pp. 80-85, Seoul, Korea, Aug. (2008).
185. T. Narumi, Y. Hada, H. Asama, K. Tsuji: "Pedestrian Route Guidance System Using Moving Information Based on Personal Feature Extraction", Proc. 2008 IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI 2008), pp. 94-99, Seoul, Korea, Aug. (2008).
186. T. Hirose, S. Morishita, H. Asama: "Foot Position Estimations for Moving Objects using a Mixture Model", Proc. 2008 IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI 2008), pp. 344-349, Seoul, Korea, Aug. (2008).
187. I. Fukuda, S. Morishita, H. Asama: "Personal Identification in Dynamic Images Using UHF Band RFID System for Service Provision", Proc. 2008 IEEE Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems (MFI 2008), pp. 492-497, Seoul, Korea, Aug. (2008).
188. S. Morishita, A. Nishimura, H. Asama: "A Method to Estimate Destination of a Walking Person with Hidden Markov Model for Safety of Human Friendly Robots", Proc. IEEE Int. Workshop on Safety, Security and Rescue Robotics (SSRR '08), pp. 115-120, Sendai, Japan, Oct. (2008).
189. S. Yano, Y. Ikemoto, H. Aonuma, T. Nagao, H. Asama: Modeling of self-organized competition hierarchy with body weight development in larval cricket, *Gryllus bimaculatus*, Preprints 9th Int. Symp. on Distributed Autonomous Robotic Systems (DARS '08), Tsukuba, Japan, Nov. (2008).
190. I. Ha, Y. Tamura, S. Morishita, H. Asama, I. Noda, Y. Hada, H. Okamoto: "Design of Location Management Module and Environment Server for Constructing of Intelligent Environment Space", Proc. the 5th Int. Conf. on Ubiquitous Robots and Ambient Intelligence (URAI2008), pp. 485-488, Seoul, Korea, Nov. (2008).
191. K. Mitsui, H. Asama, Y. Hada, K. Watanabe, S. Yamaguchi, S. Morishita: "Estimation of Human Motion Trajectory in an Elevator Cage with Images from a Monitoring Camera", Proc. the 5th Int. Conf. on Ubiquitous Robots and Ambient Intelligence (URAI2008), pp. 494-497, Seoul, Korea, Nov. (2008).

192. K. Ishizu, H. Takemura, K. Kawabata, H. Asama, T. Mishima, H. Mizoguchi: "Image Processing of Particle Detection for Asbestos Qualitative Analysis Support Method -Particle Counting System Based on Classification of Background Area-", Proc. 10th Int. Conf. on Control, Automation, Robotics and Vision, pp. 868-873, Hanoi, Vietnam, Dec. (2008).
193. 13. Qi An, Hiroki Matsuoka, Yusuke Ikemoto, Daisuke Chugo, Kaoru Takakusaki, Hajime Asama: "Extraction of Behavior Primitives in Human Standing-Up Motion for Development of Power Assisting Machine", Proc. 2008 IEEE Int. Conf. on Robotics and Biomimetics (Robio '2008), pp. 1995-2000, Bangkok, Thailand, Feb. (2009).
194. K. Kawabata, Y. Tsubota, H. Yamazaki, T. Mishima, K. Hotta, H. Asama, H. Mizoguchi, H. Takahashi: "Development of an Automatic Polarized Microscopic Imaging System for Asbestos Qualitative Analysis", 2009 IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics (AIM '09), pp. 1671-1676, Singapore, July (2009).
195. Qi An, Yusuke Ikemoto, Hiroki Matsuoka, Hajime Asama: "Extraction of Behavior Primitives for Understanding Human Standing-up Motion", Proc. of 2009 IEEE Int. Conf. on Mechatronics and Automation (ICMA '09), pp. 1800-1805, Changchun, China, Aug. (2009).
196. J. Ishii, Y. Tamura, H. Asama: "Filter Design by Using Map Information on Wireless-LAN Location Awareness System", Proc. of 2009 IEEE Int. Conf. on Mechatronics and Automation (ICMA '09), pp. 2967-2972, Changchun, China, Aug. (2009).
197. S. Yano, Y. Ikemoto, H. Aonuma, H. Asama: "Development of Neurotransmitter Modulation on Aggression and Dominance Hierarchy in Cricket, *Gryllus Bimaculatus*", ICCAS-SICE Int. Joint Conf. 2009, pp. 2254-2259, Fukuoka, Japan, Aug. (2009).
198. H. Matsuyama, H. Asama, M. Otake: "Design of Differential Near-Infrared Spectroscopy Based Brain Machine Interface", Proc. of 18th IEEE Int. Symp. on Robot and Human Interactive Communication (RO-MAN '09), pp. 775-780, Toyama, Japan, Sep. (2009).
199. M. Otake, M. Kato, T. Takagi, H. Asama: "Development of Coimagination Method towards Cognitive Enhancement via Image based Interactive Communication", Proc. of 18th IEEE Int. Symp. on Robot and Human Interactive Communication (RO-MAN '09), pp. 835-840, Toyama, Japan, Sep. (2009).
200. Y. Ikemoto, T. Miura, H. Asama: "Adaptive Division of Labor Control for Robot Group", Proc. of 2009 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS '09), pp. 2409-2414, St. Louis, USA, Oct. (2009).
201. Y. Tamura, Y. Murai, H. Murakami, H. Asama: "Identification of Types of Obstacles and Obstacle Map Building for Mobile Robots", Proc. of 6th Int. Conf. on Ubiquitous Robots and Ambient Intelligence (URAI '09), pp. 340-344, Gwangju, Korea, Oct. (2009).
202. Y. Tsubota, K. Kawabata, H. Yamazaki, K. Hotta, H. Asama, H. Mizoguchi, H. Takahashi, T. Mishima: "Development of a Polarized Microscopic Image Management System for Supporting Asbestos Qualitative Analysis utilizing Dispersion Staining", Proc. 35th Annual Conf. of the IEEE Industrial Electronics Society (IECON 2009), pp. 1855-1860, Porto, Portugal, Nov. (2009).
203. Y. Ikemoto, Y. Ishikawa, T. Miura, H. Asama: "A mathematical model for caste differentiation in termite colonies by hormonal and pheromonal regulations", Proc. of 3rd Int. Symp. on Mobiligence (Mobiligence '09), pp. 92-95, Awaji, Japan, Nov. (2009).
204. M. Murabayashi, Y. Ikemoto, M. Otake, T. Maeda, M. Kato, and H. Asama: "Sense of Agency Effected by Causal Relationship Between Motor Command and Sensory Feedback", Proc. of 3rd Int. Symp. on Mobiligence (Mobiligence '09), pp. 304-307, Awaji, Japan, Nov. (2009).
205. S. Yano, Y. Ikemoto, H. Aonuma, H. Asama: "Forgetting Curve Derived by Serotonin Hypothesis in Cricket, *Gryllus Bimaculatus*", Proc. of 3rd Int. Symp. on Mobiligence (Mobiligence '09), pp. 324-327, Awaji, Japan, Nov. (2009).
206. H. Koseki, S. Morishita, H. Asama: "Detection of a Huge Increase or Decrease of Pedestrians in a Monocular Image Sequence for Use in a Tracking Method Based on a Normal Mixture Model", 2nd IEEE Int. Symp. on System Integration (SII '09), pp. 95-100, Tokyo, Japan, Nov. (2009).
207. H. Kumagai, S. Morishita, K. Kawabata, H. Asama, T. Mishima: "Asbestos Detection Method with Frequency Analysis for Microscope Images", Proc. 5th Int. Symp. on Visual Computing (ISVC09), pp. 430-439, Las Vegas, USA, Dec. (2009).
208. M. Uozumi, H. Asama: "A Measuring Method of Satisfaction Rating in Service Engineering", Proc. SICE Annual Conf. 2010 (SICE 2010), Taipei, Taiwan, pp. 535-538, Aug. (2010).
209. J. Ishii, Y. Tamura, H. Asama: "Calibration-Free Wireless-LAN Location Estimation System Using Polar Coordinates Filter", Proc. 7th Int. Conf. on Ubiquitous Robots and Ambient Intelligence

- (URAI2010), Busan, Korea, pp.437-440 Nov. (2010).
210. Qi An, Yusuke Ikemoto, Hajime Asama, Tamio Arai: "Analysis of Human Standing-up Motion Based on Distributed Muscle Control", Pre-proceedings of 10th Int. Symposium on Distributed Autonomous Robotic Systems (DARS2010), Lausanne, Switzerland, pp. 1-12, Nov. (2010).
 211. Y. Terada, S. Morishita, H. Asama: "Extraction of Candidate Points for A Destination Estimation Method Based on Behavior Dynamics", Proc. 2010 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS2010), Taipei, Taiwan, pp. 3875-3880, Oct. (2010).
 212. Y. Tamura, T. Fukuzawa, H. Asama: "Smooth Collision Avoidance in Human-Robot Coexisting Environment", Proc. 2010 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS2010), Taipei, Taiwan, pp. 3887-3892, Oct. (2010).
 213. M. Otake, M. Kato, T. Takagi, S. Iwata, H. Asama, J. Ota: "Multiscale Service Design Method and its Application to Sustainable Service for Prevention and Recovery from Dementia", T. Onoda, D. Bekki, and E. McCready (Eds.): JSAI-isAI 2010, LNAI 6797, pp. 321-330, (2011).
 214. Qi An, Cara E. Stepp, Yoky Matsuoka, and Hajime Asama: "Uncontrolled Manifold Analysis of Standing-up Motion for Development of an Assistance System", Proceedings of the 12th International Conference on Rehabilitation Robotics (ICORR 2011), Zurich, Switzerland, pp. 1-5, (2011).
 215. G. Li, Y. Tamura, H. Asama: "Dynamical Task Allocation and Reallocation Based on Body Expansion Behavior for Multi-robot Coordination System", Proc. 2011 IEEE Int. Conf. on Mechatronics (ICMA 2011), Beijing, China, Aug., pp. 537-542, (2011).
 216. I. Ha, Y. Tamura, H. Asama, J. Han, D. Hong: "Development of Open Humanoid Platform DARwIn-OP", Proc. 2011 SICE annual Conf. (SICE 2011), Tokyo, Japan, pp. 2178-2181, Sep. (2011).
 217. M. Uozumi, H. Asama: "Measurement of quality of experience in service engineering", Proc. 2011 SICE annual Conf. (SICE 2011), Tokyo, Japan, pp. 2524-2529, Sep. (2011).
 218. I. Ha, Y. Tamura, and H. Asama: "Gait Pattern Generation and Stabilization for Humanoid Robot Based on Coupled Oscillators", Proc. 2011 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS 2011), San Francisco, USA, pp. 3207-3212, Sep. (2011).
 219. H. Ogawa, R. Chiba, K. Takakusaki, H. Asama, J. Ota: "Method for Obtaining Quantitative Change in Muscle Activities by Difference in Sensory Inputs about Human Posture Control", Proc. 5th Int. Symp. on Adaptive Motion of Animals and Machines (AMAM2011), Hyogo, Japan, pp. 9-10, Oct (2011).
 220. G. Li, Y. Tamura, H. Asama: "A Comparative Study of Dynamical Sequential and Global Optimal Task Reallocation Methodology for Distributed Multi-robot System", Proc. 18th Int. Conf. on Ubiquitous Robots and Ambient Intelligence (URAI2011), Incheon, Korea, pp. 307-312, Nov. (2011).
 221. D. Ishizuka, A. Yamashita, R. Kawanishi, T. Kaneko, H. Asama: "Self-localizaion of Mobile Robot Equipped with Omnidirectional Camera Using Image Matching and 3D-2D Edge Matching", Proc. 2011 IEEE Int. Conf. on Computer Vision Workshop (11th Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras (OMNIVIS2011)), Barcelona, Spain, pp. 272-279, Nov. (2011).
 222. S. Goto, A. Yamashita, R. Kawanishi, T. Kaneko and H. Asama: "3D Environment Measurement Using Binocular Stereo and Motion Stereo by Mobile Robot with Omnidirectional Stereo Camera", Proc. 2011 IEEE Int. Conf. on Computer Vision Workshop (11th Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras (OMNIVIS2011)), Barcelona, Spain, pp. 296-303, Nov. (2011).
 223. A. Yamashita, R. Kawanishi, T. Koketsu, T. Kaneko, H. Asama: "Underwater Sensing with Omnidirectional Stereo Camera", Proc. 2011 IEEE Int. Conf. on Computer Vision Workshop (11th Workshop on Omnidirectional Vision, Camera Networks and Non-classical Cameras (OMNIVIS2011)), Barcelona, Spain, pp. 304-311, Nov. (2011).
 224. S. Suzuki, M. Ando, H. Hashimoto, H. Asama: "Deliberation of Value-Sympathy Model for Adaptive Service Attendant System", Proc. 37th Annual Conf. of the IEEE Industrial Electronics Society (IECON 2011), Melbourne, Australia, pp.2039-2044, Nov. (2011).
 225. A. Yamashita, K. Matsui, R. Kawanishi, T. Kaneko, T. Murakami, H. Otori, T. Nakamura, H. Asama: "Self-Localization and 3-D Model Construction of Pipe by Earthworm Robot Equipped with Omnidirectional Rangefinder", Proc. Int. Conf. on Robotics and Biomimetics (ROBIO2011), Phuket, Thailand, pp.1017-1023, Dec. (2011).
 226. G. Masuyama, A. Yamashita, H. Asama: "Robot Motion Planning Utilizing Local Propagation of Information Based on Particle Swarm and Its Internal Parameters", Proc. Int. Conf. on Robotics and Biomimetics (ROBIO2011), Phuket, Thailand, pp.1053-1058, Dec. (2011).
 227. S. Hamasaki, Y. Tamura, A. Yamashita, H. Asama: "Prediction of Human's Movement for Collision Avoidance of Mobile Robot", Proc. Int. Conf. on Robotics and Biomimetics (ROBIO2011), Phuket,

- Thailand, pp.1633-1638, Dec. (2011).
228. A. Yamashita, Y. Ito, T. Kaneko, H. Asama: "Human Tracking with Multiple Cameras Based on Gaze Detection and Mean Shift", Proc. Int. Conf. on Robotics and Biomimetics (ROBIO2011), Phuket, Thailand, pp.1664-1671, Dec. (2011).
 229. G. Li, Y. Tamura, H. Asama: "Influence Analysis of Setting Thresholds on Dynamical Sequential Task Allocation and Reallocation Methodology", Proc. IEEE/SICE Int. Symp. On System Integration (SII 2011), Kyoto, Japan, pp.1165-1170, Dec. (2011).
 230. Ryosuke Kawanishi, Atsushi Yamashita, Toru Kaneko, Hajime Asama: "Line-based Camera Movement Estimation by Using Parallel Lines in Omnidirectional Video", Proc. 2012 IEEE Int. Conf. on Robotics and Automation (ICRA2012), Saint Paul, U.S.A., pp. 3573-3579, May (2012).
 231. Atsushi Yamashita, Fumiya Tsurumi, Toru Kaneko, Hajime Asama: "Automatic Removal of Foreground Occluder from Multi-Focus Images", Proc. 2012 IEEE Int. Conf. on Robotics and Automation (ICRA2012), Saint Paul, U.S.A., pp. 5410-5416, May (2012).
 232. Qi An, Hajime Asama, Cara, E. Stepp, Yoky Matsuoka: "Effect of Vibrotactile Feedback on Robotic Object Manipulation Continuous Vocalization Control Of A Full-Scale Assistive Robot", Proc. 2012 IEEE International Conference on Biomedical Robotics and Biomechatronics (BioRob 2012), Rome, Italy, pp. 508-513, June (2012).
 233. K. Watanabe, R. Kawanishi, T. Kaneko, A. Yamashita, H. Asama: "Obstacle Avoidance Based on Plane Estimation from 3D Edge Points by Mobile Robot Equipped with Omni-directional Camera", Proc. 12th Int. Conf. on Intelligent Autonomous Systems (IAS-12), Jeju, Korea, vol. 1, pp. 15-24, Springer, June (2012).
 234. M. Awai, T. Shimizu, T. Kaneko, A. Yamashita, H. Asama: "HOG-Based Person Following and Autonomous Returning Using Generated Map by Mobile Robot Equipped with Camera and Laser Range Finder", Proc. 12th Int. Conf. on Intelligent Autonomous Systems (IAS-12), Jeju, Korea, vol. 2, pp. 51-60, Springer, June (2012).
 235. Yuki Ishikawa, Qi An, Yusuke Tamura, Atsushi Yamashita, Hiroyuki Oka, Hajime Asama: "Effect of Mediolateral Knee Displacement on Ligaments and Muscles around Knee Joint: Quantitative Analysis with Three-dimensional Musculoskeletal Ligament Knee Model", Proc. 12th Int. Conf. on Intelligent Autonomous Systems (IAS-12), Jeju, Korea, vol. 2, pp. 447-456, Springer, June (2012).
 236. R. Chiba, K. Takakusaki, J. Ota, H. Ogawa, H. Asama: "Muscle activities Changing Model by difference in sensory inputs on human posture control", Proc. 12th Int. Conf. on Intelligent Autonomous Systems (IAS-12), Jeju, Korea, vol. 2, pp. 479-491, Springer, June (2012).
 237. Yusuke Tamura, Mami Egawa, Shiro Yano, Yoshinori Kumita, Takaki Maeda, Motoichiro Kato, Hajime Asama: "Relationship between Sense of Agency and Task Performance in Target Search Task", Proc. 2012 ICME Int. Conf. on Complex Medical Engineering (2012 ICME), Kobe, Japan, pp. 392-396, July (2012).
 238. Guanghui Li, Yusuke Tamura, Min Wu, Atsushi Yamashita, Hajime Asama: "Hybrid Dynamic Mobile Task Allocation and Reallocation Methodology for Distributed Multi-robot Coordination", Proc. IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics (AIM 2012), Kaohsiung City, Taiwan, pp.190-195, July (2012).
 239. Mitsunari Uozumi, Kouichi Yamada, Hajime Asama, Kaoru Takakusaki: "Automation of Supervisory Service, and Examination of the Subject of Operation", Proc. 2012 SICE Annual Conf. (SICE 2012), Akita, Japan, pp. 903-908, Aug. (2012).
 240. Guanghui Li, Atsushi Yamashita, Hajime Asama and Yusuke Tamura: "An Efficient Improved Artificial Potential Field Based Regression Search Method for Robot Path Planning", Proc. 2012 IEEE International Conference on Mechatronics and Automation (ICMA2012), Sichuan, China, pp. 1227-1232, Aug. (2012).
 241. Qi An, Yuki Ishikawa, Junki Nakagawa, Atsushi Kuroda, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Evaluation of Wearable Gyroscope and Accelerometer Sensor (PocketIMU2) during Walking and Sit-to-Stand Motions", Proc. 21st IEEE Int. Symp. on Robot and Human Interactive Communication (Ro-Man 2012), Paris, France, pp. 731-736, Sep. (2012).
 242. Tatsuya Naruse, Toru Kaneko, Atsushi Yamashita, Hajime Asama: "3-D Measurement of Objects In Water Using Fish-Eye Stereo Camera", 2012 IEEE Int. Conf. on Image Processing (ICIP 2012), Orlando, U.S.A., pp. 2773-2776, Oct. (2012).
 243. Yusuke Tamura, Phuoc Dai Le, Kentarou Hitomi, Naiwala P. Chandrasiri, Takashi Bando, Atsushi Yamashita, Hajime Asama: "Development of Pedestrian Behavior Model Taking Account of Intention",

- Proc. 2012 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS 2012), Vilamoura, Portugal, pp. 382-387, Oct. (2012).
244. Gakuto Masuyama, Atsushi Yamashita, Hajime Asama: "Intrinsically Motivated Anticipatory Learning Utilizing Transformation Invariance", Proc. 2012 IEEE Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob2012), San Diego, U.S.A., Nov. (2012).
 245. Kazushi Watanabe, Ryosuke Kawanishi, Atsushi Yamashita, Yuichi Kobayashi, Toru Kaneko, Hajime Asama: "Obstacle Avoidance in Textureless Unknown Environment Based on Plane Estimation by Mobile Robot Equipped with Omni-directional Camera", 2012 IEEE/SICE Int. Symp. on System Integration (SII '12), Fukuoka, Japan, pp. 37-42, Dec. (2012).
 246. Min Wu, Atsushi Yamashita and Hajime Asama: "Rule Abstraction and Transfer in Reinforcement Learning by Decision Tree", 2012 IEEE/SICE Int. Symp. on System Integration (SII '12), Fukuoka, Japan, pp. 529-534, Dec. (2012).
 247. Yoshiki Mori, Atsushi Yamashita, Masayuki Tanaka, Ryuho Kataoka, Yoshizumi Miyoshi, Toru Kaneko, Masatoshi Okutomi and Hajime Asama: "Calibration of Fish-Eye Stereo Camera for Aurora Observation", Proc. Int. Workshop on Advanced Image Technology 2013 (IWAIT2013), Nagoya, Japan, pp.729-734, Jan. (2013).
 248. Yutaro Ohshima, Yuichi Kobayashi, Toru Kaneko, Atsushi Yamashita and Hajime Asama: "Meal Support System with Spoon Using Laser Range Finder and Manipulator", Proc. 2013 IEEE Workshop on Robot Vision (WoRV2013), Clearwater Beach, U.S.A., pp.82-87, Jan. (2013).
 249. Naoki Ibe, Gakuto Masuyama, Atsushi Yamashita, Hajime Asama: "Humanlike Behavior Model with Probabilistic Intention", 40th Int. Conf. and Exhibition on Computer Graphics and Interactive Technoques (SIGGRAPH 2013), Anaheim, U.S.A., July (2013).
 250. Satoshi Tadokoro, Hajime Asama: "Priority Issues of Disaster Robotics in Japan", Proc. IEEE Region 10 Humanitarian Technology Conference 2013 (HTC 2013), Sendai, Japan, pp. 47-52, Aug. (2013).
 251. Daiki Kawakami, Kaito Makino, Yuichi Kobayashi, Toru Kaneko, Atsushi Yamashita, Hajime Asama: "Projector Camera System Presenting Color Information for Color Vision Deficiency", Proc. Int. Conf. on Simulation Technology (JSST2013), Tokyo, Japan, Sep. (2013).
 252. Mitsunari Uozumi, Kouichi Yamada, Shuto Murai, Hajime Asama, Kaoru Takakusaki: "The Effect and Reaction of Information Presentation in Surveillance Service", Proc. SICE Annual Conference 2013, Nagoya, Japan, pp. 2323-2328, Sep. (2013).
 253. Junki Nakagawa, Qi An, Yuki Ishikawa, Hiroyuki Oka, Kaoru Takakusaki, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Analysis of Joint Correlation between Arm and Lower Body in Dart Throwing Motion", Proc.2013 IEEE Int. Conf. on Systems, Man, and Cybernetics (SMC 2013), Manchester, U.K., pp. 1223-1228, Oct. (2013).
 254. Qi An, Yuki Ishikawa, Junki Nakagawa, Hiroyuki Ota, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Muscle Synergy Analysis of Human Standing-up Motion with Different Chair Heights and Different Motion Speeds", 2013 IEEE Int. Conf. on Systems, Man, and Cybernetics (SMC2013), Manchester, U.K., pp. 3570-3584, Oct. (2013).
 255. Satoshi Suzuki, Masaya Ando, Hiroshi Hashimoto, and Hajime Asama: "Design Procedure and Improvement of a Mathematical Modelling to Estimate Customer Satisfaction", Proc. 1st International Conference on Serviceology (ICServe 2013), Tokyo, Japan, pp. 9-14, Oct. (2013).
 256. Mitsunari Uozumi, Kouichi Yamada, Shuto Murai, Hajime Asama, Kaoru Takakusaki: "The Effect and Reaction of Information Presentation in Surveillance Service", Proc. 1st International Conference on Serviceology (ICServe 2013), Tokyo, Japan, pp. 291-296, Oct. (2013).
 257. Gakuto Masuyama, Atsushi Yamashita, Hajime Asama: "Selective Exploration Exploiting Skills in Hierarchical Reinforcement Learning Framework", Proc. 2013 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS2013), Tokyo, Japan, pp. 692-697, Nov. (2013).
 258. Takuma Tsuji, Hiroshi Yamakawa, Atsushi Yamashita, Kaoru Takakusaki, Takaki Maeda, Motoichiro Kato, Hiroyuki Oka, Hajime Asama: "Analysis of Electromyography and Skin Conductance Response During Rubber Hand Illusion", Proc. 2013 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2013), Tokyo, Japan, pp. 88-93, Nov. (2013).
 259. Qi An, Yuki Ishikawa, Junki Nakagawa, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Analysis of Contribution of Muscle Synergies on Sit-To-Stand Motion Using Musculoskeletal Model", Proc. 2013 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2013), Tokyo, Japan, pp. 13-18, Nov. (2013).
 260. Takaaki Sato, Alessandro Moro, Atsushi Sugahara, Tsuyoshi Tasaki, Atsushi Yamashita, Hajime Asama:

- "Spatio-Temporal Bird's-eye View Images Using Multiple Fish-eye Cameras", Proc. 2013 IEEE/SICE International Symposium on System Integration (SII 2013), Kobe, Japan, pp. 753-758, Dec. (2013).
261. Yuki Ishikawa, Qi An, Junki Nakagawa, Hiroyuki Oka, Atsushi Yamashita, Hajime Asama: "Effect of Varus Gait on Anterior Cruciate Ligament: To Clarify Mechanism of Pathogenesis of Knee Osteoarthritis", Osteoarthritis and Cartilage, Vol.22 Supplement (Abstracts from the 2014 World Congress on Osteoarthritis), Paris, France, pp. S113-S114, Apr. (2014).
 262. Qi An, Yuki Ishikawa, Tetsuro Funato, Shinya Aoi, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Generation of Human Standing-up Motion with Muscle Synergies Using Forward Dynamic Simulation", Proc. the 2014 IEEE Int. Conf. on Robotics and Automation (ICRA 2014), Hong Kong, China, pp. 730-735, June (2014).
 263. Shinji Kawatsuma, Osamu Taira, Hajime Asama: "Basic Decontamination Methodology of robots and robot control vehicles", Proc. Decommissioning and Remote Systems (D&RS), Reno, U. S. A., pp. 19-21, June (2014).
 264. Renato Miyagusuku, Atsushi Yamashita, Hajime Asama: "Distributed Algorithm for Robotic Network Self-deployment in Indoor Environments Using Wireless Signal Strength", Proc. 13th Int. Conf. on Intelligent Autonomous Systems (IAS-13), Padua, Italy, pp. xx-xx July (2014).
 265. Hiromitsu Fujii, Atsushi Yamashita, Hajime Asama: "Automated Diagnosis of Material Condition in Hammering Test Using a Boosting Algorithm", Proc. 2014 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO2014), Evanston, U. S. A., pp. 101-107, Sep. (2014).
 266. Junki Nakagawa, Qi An, Yuki Ishikawa, Koshiro Yanai, Wen Wen, Hiroshi Yamakawa, Junko Yasuda, Atsushi Yamashita, Hajime Asama: "Extraction and Evaluation of Proficiency in Bed Care Motion for Education Service of Nursing Skill", Proc. 2nd Int. Conf. on Serviceology (ICServe 2014), Yokohama, Japan, pp. 86-90, Sep. (2014).
 267. Koshiro Yanai, Qi An, Yuki Ishikawa, Junki Nakagawa, Wen Wen, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Visualization of Muscle Activity during Squat Motion for Skill Education", Proc. 2nd Int. Conf. on Serviceology (ICServe 2014), Yokohama, Japan, pp. 91-96, Sep. (2014).
 268. Mitsunari Uozumi, Kouichi Yamada, Shuto Murai, Hajime Asama, Kaoru Takakusaki: "Evaluation of the Productivity Improvement by Information Presentation in Surveillance Service", Proc. 2nd Int. Conf. on Serviceology (ICServe 2014), Yokohama, Japan, pp. 182-185, Sep. (2014).
 269. Qi An, Yuki Ishikawa, Tetsuro Funato, Shinya Aoi, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama: "Muscle Synergy Analysis of Human Standing-up Motion Using Forward Dynamic Simulation with Four Body Segment Model", Pre-proc. of 12th Int. Symp. on Distributed Autonomous Robotic Systems (DARS2014), Daejeon, Korea, pp. 249-261, Nov. (2014).
 270. Kazuya Sugimoto, Hiromitsu Fujii, Atsushi Yamashita, Hajime Asama: "Half Diminished Reality Image Using Three RGB-D Sensors for Remote Control Robots", Proc. of 12th IEEE Int. Symp. on Safety, Security, and Rescue Robotics (SSRR2014), 43, Toyoko, Japan, pp. xx-xx, Oct. (2014).
 271. Jonghoon Im, Atsushi Yamashita, Hiromitsu Fujii, Hajime Asama: "Correction of Over and Under Exposure Images Using Multiple Lighting System", Proc. 2nd Int. Conf. on Maintenance Science and Technology (ICMST2014), Kobe, Japan, pp. 125-126, Nov. (2014).
 272. Hiromitsu Fujii, Takayuki Kubo, Atsushi Yamashita, Akira Takeuchi, Masayuki Tanaka, Ryuho Kataoka, Yoshizumi Miyoshi, Masatoshi Okutomi, Hajime Asama: "Aurora 3D-Measurement and Visualization Using Fish-Eye Stereo Camera", Proc. ACM SIGGRAPH Asia 2014 Posters, Article No.24, Shenzhen, China, Dec. (2014).
 273. Jonghoon Im, Hiromitsu Fujii, Atsushi Yamashita, Hajime Asama: "Compensation of Over and Under Exposure Image Using Multiple Light Switching", Proc. 2014 IEEE/SICE Int. Symp. on System Integration (SII2014), Tokyo Japan, pp. 147-152, Dec. (2014).
 274. Kazuki Sakamoto, Alessandro Moro, Hiromitsu Fujii, Atsushi Yamashita, Hajime Asama: "Three-Dimensional Measurement of Objects in Liquid with an Unknown Refractive Index Using Fisheye Stereo Camera", Proc. 2014 IEEE/SICE Int. Symp. on System Integration (SII2014), Tokyo, Japan, pp. 281-286, Dec. (2014).
 275. Naoki Ibe, Atsushi Yamashita, Hajime Asama: "Flexible Marker-based Augmented Reality Based on Estimation of Object Pose", Proc. 2015 Joint Conf. of the Int. Workshop on Advanced Image Technology (IWAIT) and the Int. Forum on Medical Imaging in Asia (IFMIA), Paper No. 111, Tainan, Taiwan, pp. 1-4, Jan. (2015).
 276. Yusuke Tanaka, Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "Fuzzy Based Traversability Analysis for a Mobile Robot on Rough Terrain", Proceedings of the 2015 IEEE International Conference

- on Robotics and Automation (ICRA2015), pp. 3965-3970, Seattle, U. S. A., May (2015).
277. Akira Shibata, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Scale-Reconstructable Structure from Motion Using Refraction with a Single Camera", Proceedings of the 2015 IEEE International Conference on Robotics and Automation (ICRA2015), pp. 5239-5244, Seattle, U. S. A., May (2015). (IEEE Robotics and Automation Society Japan Chapter Young Award)
 278. Qi An, Yuki Ishikawa, Shinya Aoi, Tetsuro Funato, Hiroyuki Oka, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama: "Analysis of Muscle Synergy Contribution on Human Standing-up Motion Using Human Neuro-Musculoskeletal Model", Proceedings of the 2015 IEEE International Conference on Robotics and Automation (ICRA2015), pp. 5885-5890, Seattle, U. S. A., May (2015).
 279. Seungchul Kwak, Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "Development of Acoustic Camera-Imaging Simulator Based on Novel Model", Proceedings of the 2015 IEEE 15th International Conference on Environment and Electrical Engineering (EEEIC2015), Rome, Italy, June (2015).
 280. Xiaorui Qiao, Junki Nakagawa, Koshiro Yanai, Junko Yasuda, Wen Wen, Atsushi Yamashita and Hajime Asama: "Nurse Bed Care Activity Analysis for Intelligent Training Service", Proceedings of the 3rd international conference on Serviceology (ICServ2015), San Jose, U. S. A., July (2015).
 281. Hiroyuki Okamoto, Alessandro Moro, Atsushi Yamashita and Hajime Asama: "Toward Sports Training Service with the Interactive Learning Platform", Proceedings of the 3rd international conference on Serviceology (ICServ2015), San Jose, U. S. A., July (2015).
 282. Wen Wen, Xiaorui Qiao, Koshiro Yanai, Junki Nakagawa, Junko Yasuda, Atsushi Yamashita and Hajime Asama: "Skill Evaluation and Education Services for Bed-Care Nursing with Sliding Sheet with Regression Analysis", Proceedings of the 3rd international conference on Serviceology (ICServ2015), San Jose, U. S. A., July (2015).
 283. Mitsunari Uozumi, Kouichi Yamada, Shuto Murai, Hajime Asama, Kaoru Takakusaki: "Productivity Improvement and Stress Reduction by Showing Information to a Surveillance Worker", Proceedings of the 3rd international conference on Serviceology (ICServ2015), San Jose, U. S. A., July (2015).
 284. Mitsunari Uozumi, Kouichi Yamada, Shuto Murai, Hajime Asama, Kaoru Takakusaki: "Productivity Improvement and Stress Reduction by the Information Presented to Workers", The 34th Chinese Control Conference & SICE Annual Conference 2015 (CCC&SICE2015), Hangzhou, China, pp. 1413, July (2015).
 285. Guanghui Li, Shuiguang Tong, Yang Li, Feiyun Cong, Zheming Tong, Atsushi Yamashita and Hajime Asama: "Hybrid Dynamical Moving Task Allocation Methodology for Distributed Multi-robot Coordination System", Proceedings of the 2015 IEEE International Conference on Mechatronics and Automation (ICMA2015), pp.1412-1417, Beijing, China, Aug. (2015).
 286. Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "Automatic Calibration and Trajectory Reconstruction of Mobile Robot in Camera Sensor Network", Proceedings of the 11th Annual IEEE International Conference on Automation Science and Engineering (CASE 2015), Gothenburg, Sweden, Aug. (2015).
 287. Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Improvement of Environmental Adaptivity of Defect Detector for Hammering Test Using Boosting Algorithm", Proceedings of the 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2015), pp.6507-6514, Hamburg, Germany, Oct. (2015).
 288. Renato Miyagusuku, Atsushi Yamashita and Hajime Asama: "Gaussian Processes with input-dependent noise variance for wireless signal strength-based localization", Proceedings of 2015 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR 2015), West Lafayette, U. S. A., Oct. (2015).
 289. Guanghui Li, Shuiguang Tong, Gang Lv, Renyuan Xiao, Feiyun Cong, Zheming Tong, Atsushi Yamashita and Hajime Asama: "An Improved Artificial Potential Field-based Simultaneous FORWARD Search (Improved APF-based SIFORS) method for Robot Path Planning", Proceedings of the 12th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2015), Goyang, Korea, Oct. (2015).
 290. Akira Takeuchi, Hiromitsu Fujii, Atsushi Yamashita, Masayuki Tanaka, Ryuho Kataoka, Yoshizumi Miyoshi, Masatoshi Okutomi and Hajime Asama: "3D Visualization of Aurora from Optional Viewpoint at Optional Time", Proceedings of ACM SIGGRAPH Asia 2015 Posters, Kobe, Japan, Nov. (2015).
 291. Daisuke Tomoi, Wen Wen, Hiroshi Yamakawa, Shunsuke Hamasaki, Kaoru Takakusaki, Qi An, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Estimation of Stress During Car Race with Factor Analysis", Proceedings of the 2015 International Symposium on Micro-Nano Mechatronics and Human

- Science (MHS2015), pp.213-216, Nagoya, Japan, Nov. (2015).
292. Shunsuke Hamasaki, Qi An, Wen Wen, Yusuke Tamura, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama, Satoshi Shibuya, Yukari Ohki: "Evaluating Effect of Sense of Ownership and Sense of Agency on Body Representation Change of Human Upper Limb", Proceedings of 26th 2015 International Symposium on Micro-Nano Mechatronics and Human Science (MHS 2015), pp.254-257, Nagoya, Japan, Nov. (2015).
 293. Tatsuya Kittaka, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Seeing through Obstacles by Using Movable RGB-D Sensors", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.29-30, Tokyo, Japan, Dec. (2015).
 294. Binbin Xu, Sarthak Pathak, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Robot Body Occlusion Removal in Omnidirectional Video Using Color and Shape Information", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.49-50, Tokyo, Japan, Dec. (2015).
 295. Sarthak Pathak, Alessandro Moro, Atsushi Yamashita and Hajime Asama: "Rotation Removed Stabilization of Omnidirectional Videos Using Optical Flow", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.51-52, Tokyo, Japan, Dec. (2015).
 296. Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Boosting-based Visualization of Concrete Defects for Hammering Inspection", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), p.55, Tokyo, Japan, Dec. (2015).
 297. Qi An, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama: "Muscle Synergies of Sit-to-Stand and Walking Account for Sit-to-Walk Motion", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.96-97, Tokyo, Japan, Dec. (2015).
 298. Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "Automatic Camera Pose Estimation Based on Textured 3D Map Information", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.100-101, Tokyo, Japan, Dec. (2015).
 299. Ren Komatsu, Hiromitsu Fujii, Hitoshi Kono, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Bird's-eye View Image Generation with Camera Malfunction in Irradiation Environment", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.177-178, Tokyo, Japan, Dec. (2015).
 300. Seungchul Kwak, Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "3-D Reconstruction of Underwater Object: Analytical System for Extracting Feature Points Using Two Different Acoustic Views", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.197-198, Tokyo, Japan, Dec. (2015).
 301. Hiroshi Higuchi, Hiromitsu Fujii, Atsushi Taniguchi, Masahiro Watanabe, Atsushi Yamashita and Hajime Asama: "3D Measurement of Large Structures with a Ring Laser and a Camera Using Structure from Motion for Integrating Cross Sections", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.233-234, Tokyo, Japan, Dec. (2015).
 302. Hitoshi Kono, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Distributed Cooperative Fault Diagnosis for Internal Electrical Components of Robot System", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.235-236, Tokyo, Japan, Dec. (2015).
 303. Yusuke Tanaka, Yonghoon Ji, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Course Detection from Integrated 3D Environment Measurement by Multiple Mobile Robots", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.237-238, Tokyo, Japan, Dec. (2015).
 304. Hanwool Woo, Yonghoon Ji, Hitoshi Kono, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Detection Method of Lane Change Intentions in Other Drivers Using Hidden Markov Models", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.253-254, Tokyo, Japan, Dec. (2015).
 305. Renato Miyagusuku, Atsushi Yamashita and Hajime Asama: "Dual Monte Carlo Localization Algorithm for Localization Using Wireless Signal Strength Maps", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.282-283, Tokyo, Japan, Dec. (2015).
 306. Jun Younes Louhi (Kasahara), Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Unsupervised Learning Approach to Detection of Void-type Defects in Concrete Structure Using Hammering and Clustering", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.319-320, Tokyo, Japan, Dec. (2015).
 307. Rin Minohara, Wen Wen, Shunsuke Hamasaki, Takaki Maeda, Hiroshi Yamakawa, Satoshi Shibuya,

- Yukari Ohki, Atsushi Yamashita and Hajime Asama: "Readiness Potential Reflects the Predictive Aspect of Sense of Agency", Proceedings of the 6th International Conference on Advanced Mechatronics (ICAM2015), pp.353-354, Tokyo, Japan, Dec. (2015).
308. Soichiro Iwataki, Hiromitsu Fujii, Alessandro Moro, Atsushi Yamashita, Hajime Asama, Hiroshi Yoshinada: "Visualization of the Surrounding Environment and Operational Part in a 3DCG Model for the Teleoperation of Construction Machines", Proc. 2015 IEEE/SICE International Symposium on System Integration (SII 2015), pp.81-87, Nagoya, Japan, Dec. (2015).
 309. Akira Shibata, Hiromitsu Fujii, Atsushi Yamashita, Hajime Asama: "Absolute Scale Structure from Motion Using a Refractive Plate", Proc. 2015 IEEE/SICE International Symposium on System Integration (SII 2015), pp.540-545, Nagoya, Japan, Dec. (2015).
 310. Guanghui Li, Shuiguang Tong, Feiyun Cong, Atsushi Yamashita and Hajime Asama: "Improved Artificial Potential Field-based Simultaneous Forward Search Method for Robot Path Planning in Complex Environment", Proceedings of the 2015 IEEE/SICE International Symposium on System Integration (SII2015), pp.760-765, Nagoya, Japan, Dec. (2015).
 311. Shunsuke Hamasaki, Qi An, Wen Wen, Yusuke Tamura, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama, Satoshi Unenaka, Satoshi Shibuya and Yukari Ohki: "Influence of Sense of Agency and Sense of Ownership on Body Representation Change of Human Upper Limb", Proceedings of the 1st International Symposium on Embodied-Brain Systems Science (EmboSS2016), p.26, Tokyo, Japan, May (2016).
 312. Wen Wen, Atsushi Yamashita and Hajime Asama: "How Agency Influences Ownership and Body Representation", Proceedings of the 1st International Symposium on Embodied-Brain Systems Science (EmboSS2016), p.27, Tokyo, Japan, May (2016).
 313. Ningjia Yang, Qi An, Hiroshi Yamakawa, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Muscle Synergy Analysis in Human Standing-up Motion Using Different Strategies", Proceedings of the 1st International Symposium on Embodied-Brain Systems Science (EmboSS2016), p.32, Tokyo, Japan, May (2016).
 314. Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Defect Detection with Estimation of Material Condition Using Ensemble Learning for Hammering Test", Proceedings of the 2016 IEEE International Conference on Robotics and Automation (ICRA2016), pp.3847-3854, Stockholm, Sweden, May (2016).
 315. Wenzheng Chi, Hitoshi Kono, Yusuke Tamura, Atsushi Yamashita, Hajime Asama, and Max Q.-H. Meng: "A Human-friendly Robot Navigation Algorithm Using the Risk-RRT Approach", Proceedings of the 2016 IEEE International Conference on Real-time Computing and Robotics (RCAR2016), Angkor Wat, Cambodia, June (2016).
 316. Seungchul Kwak, Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "3-D Reconstruction of Underwater Objects Using Arbitrary Acoustic Views", Proceedings of the 11th France-Japan congress on Mechatronics / the 9th Europe-Asia congress on Mechatronics / the 17th International Conference on Research and Education in Mechatronics (MECATRONICS-REM2016), pp.74-79, Compiègne, France, June (2016).
 317. Tatsuya Kittaka, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Creating See-through Image Using Two RGB-D Sensors for Remote Control Robot", Proceedings of the 11th France-Japan congress on Mechatronics / the 9th Europe-Asia congress on Mechatronics / the 17th International Conference on Research and Education in Mechatronics (MECATRONICS-REM2016), pp.86-91, Compiègne, France, June (2016).
 318. Hiromasa Kume, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "Scale Reconstructable Structure from Motion Using Refraction with Omnidirectional Camera", Proceedings of the 11th France-Japan congress on Mechatronics / the 9th Europe-Asia congress on Mechatronics / the 17th International Conference on Research and Education in Mechatronics (MECATRONICS-REM2016), pp.117-122, Compiègne, France, June (2016).
 319. Yonghoon Ji, Atsushi Yamashita and Hajime Asama: "Indoor Positioning System Based on Distributed Camera Sensor Networks for Mobile Robot", Proceedings of the 14th International Conference on Autonomous Intelligent Systems (IAS-14), Shanghai, China, July (2016).
 320. 2. Qi An, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama: "Temporal Structure of Muscle Synergy of Human Stepping Leg During Sit-to-Walk Motion", Proceedings of the 14th International Conference on Autonomous Intelligent Systems (IAS-14), Shanghai, China, July (2016).
 321. Yuki Ishikawa, Qi An, Wen Wen, Shu Ishiguro, Koji Ohata, Hiroshi Yamakawa, Yusuke Tamura, Atsushi Yamashita and Hajime Asama: "Auxiliary System to Identify Patterns of Patients with Hemiplegia for

- Transferring Skill of Rehabilitation with Walking Assist Robot", Proceedings of the 4th International Conference on Serviceology (ICServ2016), Tokyo, Japan, Sep. (2016). (to be presented)
322. Mitsunari Uozumi, Ryota Tsujio, Taiko Hino, Hajime Asama: "Evaluation of Individual Differences in Machine Operation", Proceedings of the 4th International Conference on Serviceology (ICServ2016), Tokyo, Japan, Sep. (2016). (to be presented)
323. Yonghoon Ji, Seungchul Kwak, Atsushi Yamashita and Hajime Asama: "Acoustic Camera-based 3D Measurement of Underwater Objects through Automated Extraction and Association of Feature Points", Proceedings of the 2016 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI2016), Baden-Baden, Germany, Sep. (2016). (to be presented)
324. Sarthak Pathak, Alessandro Moro, Atsushi Yamashita and Hajime Asama: "A Decoupled Virtual Camera Using Spherical Optical Flow", Proceedings of the 2016 IEEE International Conference on Image Processing (ICIP2016), Phoenix, U. S. A., Sep. (2016). (to be presented)
325. Sarthak Pathak, Alessandro Moro, Atsushi Yamashita and Hajime Asama: "Dense 3D Reconstruction from Two Spherical Images via Optical Flow-based Equirectangular Epipolar Rectification", Proceedings of the 2016 IEEE International Conference on Imaging Systems and Techniques (IST2016), Crete Island, Greece, Oct. (2016).
326. Renato Miyagusuku, Atsushi Yamashita and Hajime Asama: "Gaussian Processes Mappings Improvements Using Path Loss Models for Wireless Signals-based Localization", Proceedings of the 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2016), Daejeon, Korea, Oct. (2016). (to be presented)
327. Hanwool Woo, Yonghoon Ji, Hitoshi Kono, Yusuke Tamura, Atsushi Yamashita, Hajime Asama, Yasuhide Kuroda, Takashi Sugano and Yasunori Yamamoto: "Dynamic Potential-Model-Based Feature for Lane Change Prediction", Proceedings of the 2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC2016), Budapest, Hungary, Oct. (2016). (to be presented)
328. Sarthak Pathak, Alessandro Moro, Hiromitsu Fujii, Atsushi Yamashita and Hajime Asama: "3D Reconstruction of Structures using Spherical Cameras with Small Motion", Proceedings of the 16th International Conference on Control, Automation and Systems (ICCAS2016), Gyeongju, Korea, Oct. (2016). (to be presented)
329. Hanwool Woo, Yonghoon Ji, Hitoshi Kono, Yusuke Tamura, Atsushi Yamashita, Hajime Asama, Yasuhide Kuroda, Takashi Sugano and Yasunori Yamamoto: "Dynamic Potential-Model-Based Feature for Lane Change Prediction", Proceedings of the 2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC2016), Budapest, Hungary, Oct. (2016). (to be presented)

Invited Talks (International Talks only)

- Hajime Asama: "Robot & Remotely Controlled System Technology for Accident Response and Decommissioning of Fukushima Daiichi Nuclear Power Stations", National Aeronautics and Space Administration (NASA) Seminar, Houston, U. S. A., July (2016).
- Hajime Asama: "Robot & Remotely Controlled System Technology for Accident Response and Decommissioning of Fukushima Daiichi Nuclear Power Stations", Pacific Northwest National Laboratory (PNNL) Seminar, Hanford, U. S. A., July (2016).
- Hajime Asama: "Societal Dissemination of Robot Technology for Disaster Response through Experience Accident of Fukushima Daiichi NPS", Keynote, 2016 IEEE International Conference on Robotics and Automation (ICRA 2016), Stockholm, Sweden, May (2016).
- Hajime Asama: "Societal Dissemination of Human-System Interaction for Service RT (Robot Technology) Systems", Seoul National University Seminar, Seoul, Korea, May (2016).
- Hajime Asama: "Societal Dissemination of Human-System Interaction for Service RT (Robot Technology) Systems", Hong Kong Polytechnic University Seminar, Hong Kong, Apr. (2016).
- Hajime Asama: "Societal Dissemination of Human-System Interaction for Service RT (Robot Technology) Systems", Robotics Symposium, Chinese University of Hong Kong T Stone Robotics Institute, Hong Kong, Apr. (2016).
- Hajime Asama: "Human-System Interaction in Robot Systems for Services", City University of Hong Kong Workshop on Smart Robotics from Macro- to Micro-scaled Applications, Hong Kong, Feb. (2016).
- Hajime Asama: "Human-System Interaction for Service RT (Robot Technology) Systems", Masdar Institute of Science and Technology & the University of Tokyo Joint Seminar on A Holistic View on Energy and Water Security, Abu Dhabi, U. A. E., Feb. (2016).
- Hajime Asama: "Human-System Interaction in Robot Systems for Services", Technical University of Munich Seminar, Munich, Germany, Jan. (2016).
- Hajime Asama: "Human-System Interaction for Service RT Systems", Hanyang University International Workshop on Robots and Digital Humans, Seoul, Korea, Dec. (2015).
- Hajime Asama: "Robot & Remotely Controlled System Technology for Decommissioning of Fukushima Daiichi Nuclear Power Stations", JAEA International Workshop on Nuclear Emergency Response Robotics, Naraha, Japan, Dec. (2015).
- Hajime Asama: "Utilization of Robot Technology for Disaster Response towards Social Resilience", Japan-Korea Forum for Future Creation, Tokyo, Japan, Nov. (2015).
- Hajime Asama: "Human-System Interaction for Service RT Systems", Forum6-Service robot technology and application in smart city, World Robot Conference 2015, Beijing, China, Nov. (2015).
- Hajime Asama: "Japan's New Robot Strategy and Utilization of Robot Technology for Societal Resilience", Japan-China-Korea Joint Robotics Workshop, World Robot Conference 2015, Beijing, China, Nov. (2015).
- Hajime Asama: "Service Robotics", Nankai University Seminar, Tianjin, China, Nov. (2015).
- Hajime Asama: "Consideration on Standard Test Methods For Disaster Response Robots through Experience of Utilization of Robot Technology for Accident Response and Decommissioning Fukushima Daiichi NPS", JAEA Workshop on Standard Test Method for Response Robots, Naraha, Japan, Nov. (2015).
- Hajime Asama: "Research and Development Toward Decommissioning of Fukushima", Nuclear Decommissioning and Robotics Forum, 2015 IFToMM World Congress (IFToMM2015), Taipei, Taiwan, Oct. (2015).
- Hajime Asama: "Robot Technology and Intelligent Systems Technology Which Meet the Societal Expectation", Government Forum, 2015 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS2015), Hamburg, Germany, Sep. (2015).
- Hajime Asama: "Modeling of Slow Dynamics on Body Representations in Brain", Workshop on Embodied-Brain Systems Sciences, 2015 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS2015), Hamburg, Germany, Sep. (2015).
- Hajime Asama: "Government funding priorities and government policy in Japan -Trends of Robotics and RT in Japan-", Government Forum, 2015 IEEE International Conference on Robotics and Automation (ICRA 2015), Seattle, U. S. A., May (2015).
- Hajime Asama: "Trends of R&D and Utilisation of Robot Technology in Japan", Japan-UK Robotics Seminar 2015, London, U. K., April (2015).

- Hajime Asama: "Trends of R&D and Utilisation of Robot Technology in Japan", The Embassy of Japan in the UK Japan-UK Robotics Seminar 2015, London, U. K., Apr. (2015).
- Hajime Asama: "Robot & Remote-Controlled Machine Technology for Disaster Response and Decommissioning of NPS", University of Birmingham seminar on the Advanced Boiling Water Reactor, Birmingham, U. K., Apr. (2015).
- H. Asama: "Social Dissemination of Disaster Response Robots", UN World Conf. on Disaster Risk Reduction 2015 Public Forum on Social Implementation of Disaster Robots and Systems, Sendai, Japan, Mar. (2015).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Accident Response and Decommissioning of Fukushima Daiichi Nuclear Power Station", British Embassy Tokyo UK-Japan Robotics Workshop, Tokyo, Japan, Feb. (2015).
- H. Asama: "Utilization of Robot & Remote-Controlled Machine Technology for Accident Response and Decommissioning of Fukushima Daiichi Nuclear Power Plant", 2nd International Conf. on Maintenance Science and Technology (ICMST-Kobe 2014), Kobe, Japan, Nov. (2014).
- H. Asama: "Utilization of Robot & Remote-Controlled Machine Technology for Accident Response and Decommissioning of Fukushima Daiichi Nuclear Power Station", White House OSTP Workshop, College Station, U. S. A., Nov. (2014).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Accident Response and Decommissioning of the Fukushima Daiichi Nuclear Power Plant", IFAC World Congress (IFAC 2014), Cape Town, South Africa, Aug. (2014).
- H. Asama: "Human Interface for Disaster Response Robots", Workshop on New Research Frontiers for Intelligent Autonomous Systems, Venice, Italy, July (2014).
- H. Asama: "Robot & Remote-Controlled Machine Technology toward Social Resilience against Disasters", HITSZ International Robotics Forum, Shenzhen, China, Dec. (2013).
- H. Asama: "Utilization of Robot & Remote-Controlled Machine Technology for Accident Response and Decommissioning of Fukushima Daiichi Nuclear Power Plant", Workshop on on Robots and Sensors Integration in Future Rescue Information System, Panel Discussion: Thought on Nuclear Robots and Decommissioning of a Nuclear Plants Based on the RSJ Report, 2013 IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2013), Tokyo, Japan, Nov. (2013).
- H. Asama: "Robot & Remote-Controlled Machine Technology toward Social Resilience against Disasters", Workshop on on Robots and Sensors Integration in Future Rescue Information System, 2013 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS2013), Tokyo, Japan, Nov. (2013).
- H. Asama: "Utilization of Robot & Remote-Controlled Machine Technology for Accident Response and Decommission of the Fukushima Daiichi Nuclear Power Plant", Germany-France-Japan Meeting on emergency response by remote operated equipment, Tokai, Japan, Nov. (2013).
- H. Asama: "Robot for the Future", Panel of Concurrent Workshop, Annual Meeting of the Science and Technology in Society (STS) Forum, Kyoto, Japan, Oct. (2013).
- H. Asama: "Robot & Remote-Controlled Machine Technology toward Social Resilience against Disasters", 2013 IFAC International Conf. on Intelligent Control and Automations Science (ICONS 2013), Chengdu, China, Sep. (2013).
- H. Asama, S. Tadokoro, H. Setoya: "COCN (Council on Competitiveness-Nippon) Project on Robot Technology Development and Management for Disaster Response", IEEE Region 10 Humanitarian Technology Conference 2013 (HTC 2013), Sendai, Japan, Aug. (2013).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Response against Accident of Nuclear Power Plants toward Decommission", Italy-Japan Workshop 2012 on Assistance Robots for Disasters, Tokyo, Japan, Dec. (2012).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Response against Accident of Nuclear Power Plants toward Decommission", 2012 Korea-Japan Workshop on Firefighting and Disaster Prevention Robots, Daejeon, Korea, Nov. (2012).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Response against Accident of Nuclear Power Plants toward Decommission", 10th IEEE Int. Symp. On Safety, Security, and Rescue Robotics (SSRR 2012), College Station, U.S.A., Nov. (2012).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Response of Nuclear Power Plant Accident", UK-Japan Nuclear Safety Research and Development Workshop, Tokyo, Japan, Oct. (2012).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Response against Accident of Nuclear Power Plants and toward their Decommission", 2012 IEEE/RSJ International Conference on

- Intelligent Robots and Systems (IROS 2012), Vilamoura, Portugal, Oct. (2012).
- H. Asama: "Utilization of Robot & Remote-Controlled Machine Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", IFAC Workshop on Automation in the Mining, Mineral and Metal Industries (MMM 2012), Pre-Workshop on Future Directions in Systems and Control, Gifu, Japan, Sep. (2012).
- H. Asama: "Robot & Remote-Controlled Machine Technology for Response of Disasters and Accidents of Nuclear Power Plants", SICE Annual Conference 2012 (SICE 2012), Akita, Japan, Aug. (2012).
- H. Asama: "Human-System Interaction for Service RT Systems", 2012 International Symposium on Multi-scale Intelligent Systems (MIS 2012), Nagoya, Japan, July (2012).
- H. Asama: "Social Implementation of Robot Technology for Services", 2012 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2012), Kaohsiung, Taiwan, July (2012).
- H. Asama: "Social Implementation of Robot Technology for Services", 2012 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2012), Kaohsiung, Taiwan, July (2012).
- H. Asama: "Utilization of Robot Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", Seminar at Engineering Department of CERN, Geneva, Switzerland, Mar. (2012).
- H. Asama: "Utilization of Robot & Remote-Controlled Machine Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", Seminar at Institute of Micro Technology and Medical Device Technology (MIMED) of Technical University of Munich, Munich, Germany, Mar. (2012).
- H. Asama: "Utilization of Robot Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", Workshop on Korea - Japan workshop on Firefighting and Disaster Robots in 8th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2011), Incheon, Korea, Nov. (2011).
- H. Asama: "Utilization of Robot Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", Seminar at the Robotics Institute of Carnegie Mellon University, Pittsburgh, U.S.A., Nov. (2011).
- H. Asama: "Utilization of Robot Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", Seminar at NIST Response Robot Evaluation Exercise, College Station, U.S.A., Nov. (2011).
- H. Asama: "Utilization of Robot Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", Graduate Seminar of Dept. of Computer Science and Engineering of Texas A&M University, College Station, U.S.A., Nov. (2011).
- H. Asama: "Utilization of Robot Technology for the Great Eastern Japan Earthquake and Accident of the Fukushima Daiichi Nuclear Power Plant", 6th Japan-China-Korea Joint Workshop on Robotics, Kita-Kyushu, Japan, Nov. (2011).
- H. Asama: "Utilization of Remote-Controlled Machine Technology for the Accident of the Nuclear Power Plant", 9th IEEE Int. Symp. On Safety, Security, and Rescue Robotics (SSRR 2011), Kyoto, Japan, Nov. (2011).
- H. Asama: "Introduction of Robot Technology for the Great Eastern Japan Earthquake and the Accident of Fukushima Daiichi Nuclear Power Plant", IEEE ICMA 2011 Special Forum on Technical Challenge of Robotics for Disaster Applications in the 2011 IEEE International Conference on Mechatronics and Automation (ICMA2011), Beijing, China, Aug. (2011).
- H. Asama: "Activities of Remote Control/Robotics PT and Robotics Task Force for Anti-Disaster: The East Japan Earthquake, the Tsunami and the Accident of Fukushima Daiichi Nuclear Power Plant", ICRA Special Forum: Preliminary Report on the Disaster and Robotics in Japan in 2011 IEEE Int. Conf. on Robotics and Automation (ICRA '12), Shanghai, China, May (2011).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", Seminar in University of Zurich, Nov. (2010).
- H. Asama: "Introduction of Mobiligence", Workshop on Mobiligence in SICE Annual Conference 2010 (SICE 2010), Taipei, Taiwan, Aug. (2010).
- H. Asama: "Measurement, Discrimination, and Prediction of Walking Human Motion for Adaptive Service Systems", Precision Engineering Workshop in Tsinghua Week at Todai, May (2010).
- H. Asama: "Analysis of Standing-up Motion for Assistive System Development", Workshop on Human Assistive Robotics in Tsinghua Week at Todai, May (2010).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body,

- Brain and Environment", ICCAS-SICE Int. Joint Conf. 2009, Fukuoka, Japan, Aug. (2009).
- H. Asama: "Adaptive Service RT Systems as Intelligent Environment", Robotland Forum, Masan, Korea, June (2009).
- H. Asama: "Distributed and Cooperative Robot Technology for Adaptive Service Systems", International Symposium on Intelligent Robot and Mechatronics (ISIR2009), Masan, Korea, June (2009).
- H. Asama: "Modeling of Mechanism to Generate Social Adaptive Behaviors of Insects from Neurophysiological to Behavioral Level", Robotic Science and Systems Workshop, Seattle, USA, Mar. (2009).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", 2008 SICE Annual Conference, Fukuoka, Japan, Aug. (2008).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", USA-Japan Robotics Workshop, San Francisco, USA, Aug. (2008).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", 6th IEEE International Conference on Industrial Informatics (INDIN '08), Daejeon, Korea, July (2008).
- H. Asama: "Adaptive Service Robot System as Intelligent Environment", International Symposium on Intelligent Robot System and Mechatronics (ISIR '08), Changwon City, Korea, June (2008).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", 4th International Symposium on Adaptive Motion of Animals and Machines (AMAM 2008), Cleveland, USA, June (2008).
- H. Asama: "Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", ETRI (Electronics and Telecommunication Research Institute) seminar, Taejeon, Korea, Feb. (2008).
- H. Asama: "Adaptiveness in Biological Systems and for Service RT Systems", Future of AI and Robotics Workshop, Gotemba, Japan, November (2007).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", The 4th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI2007), Pohang, Korea, November (2007).
- H. Asama: "Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment", The 2007 IEEE International Conference on Mechatronics and Automation (ICMA 2007), Harbin, Heilongjiang, China, August (2007).
- H. Asama: "Adaptive Service Media as Intelligent Environment", OMG (Object Management Group) San Diego Technical Meeting, San Diego, USA, March (2007).
- H. Asama: "Mobiligence: Emergence of Adaptive Motor Function Through Interaction Among The Body, Brain and Environment", Proc. of 2007 IEEE International Conference on Integration Technology (ICIT2007), Shenzhen, China, March (2007).
- H. Asama: "Emergence of Adaptive Motor Function Through Interaction Among The Body, Brain and Environment, A Constructive Approach to the Understanding of Mobiligence", Proc. on Korea-Japan Joint Workshop on Next Generation of Robotics Technologies for Livable Society, pp. 21-23, Busan, Korea, Oct. (2006).
- H. Asama: "Adaptiveness for Service RT Systems", IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO 2006), Beijing, China, Oct. (2006).
- H. Asama: "Adaptiveness in Biological Systems and for Robotic Systems", 2006 IEEE International Conference on Information Acquisition (ICIA 2006), Weihai, China, Aug. (2006).
- H. Asama: "Emergence of Adaptive Motor Function through Interaction among the Body, Brain and Environment: A Constructive Approach to the Understanding of Mobiligence", 6th International Workshop on Emergent Synthesis (IWES '06), Kashiwa, Japan, Aug. (2006).
- H. Asama: "Mobiligence: Adaptiveness of Distributed Autonomous Systems", 8th International Symposium on Distributed Autonomous Robotics Systems (DARS 2006), Minneapolis, Minnesota, USA, July (2006).
- H. Asama: "Emergence of Adaptive Motor Function through Interaction between Body, Brain, and Environment – Understanding of Mobiligence by Constructive Approach", Proc. of the 1st International Symposium on Mobiligence (Mobiligence '05), Sapporo, Japan, Dec. (2005).
- H. Asama, A. Morimoto, Y. Hada, K. Kawabata: "Ubiquitous RT as Service Media for Human Assistive Service Systems", 2005 Korea-Japan Joint Seminar on Info-Mechatronics Systems, Seoul, Oct. (2005).

- H. Asama: "Ubiquitous Service Robotics", International Conference on Control, Automation and Systems, Proc. of International Conference on Control, Automation and Systems 2005 (ICCAS2005), pp. I-21-I-26, Gyeonggi-Do, Korea, Jun. (2005).
- H. Asama: "Robotics for Service Media in Ubiquitous Computing Environment", International Conference on Electrical Machines and Systems 2004, Jeju Island (2004).
- H. Asama: "Distributed Autonomous Robotics Research (Multi-agent Robot Systems Research) at the Univ. of Tokyo / RIKEN", JAXA Space Robotics Workshop, Tokyo Jan., (2004)
- H. Asama: "Service Robotics in Ubiquitous Computing Environment", Italy-Japan 2003 Workshop, Research on Humanoid, Service and Rescue Robots in Italy and in Japan, Tokyo, Japan, Nov. (2003).
- H. Asama: "Future Perspective for Service Robots for Ubiquitous Computing Environment", IARP Workshop on Service, Assistive and Personal Robots: Technical Challenges and Real World Application Perspectives, Madrid, Spain, Oct. (2003).
- H. Asama: "Robotics research and development for nuclear applications in Japan", 3rd International Workshop on Human-friendly Welfare Robotic Systems, Taejon, Korea, Jan. (2002).
- H. Asama: "Towards Emergence in Distributed Autonomous Robotic Systems - Intelligent Data Carrier for Cooperative Organization of Mobile Robots and Their Operating Environment -", 3rd Int. Conf. on Field and Service Robotics (FSR 2001), Espoo, Finland, June (2001).
- H. Asama, H. Kaetsu, I. Endo, M. Sato: "3 DoF Decoupling Drive Mechanism for Omni-Directional Mobile Robots", Harmonic Drive Int. Symp., Matsumoto, Japan, May (1996).
- H. Asama: "Operation of Cooperative Multiple Robots Using Communication in a Decentralized Robotic System", From Perception To Action Conf., Lausanne, Switzerland, Sep. (1994).
- H. Asama, T. Nagamune, M. Hirata, A. Hirata, I. Endo: "An Expert System for Cultivating Operations", Engineering Foundation Conf. Biochemical Engineering VI, Santa Barbara, U.S.A., Oct. (1988).

Doctor Course Advisors

1992.4-1996.3 Koichi Ozaki (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
1992.4-1996.3 Shin'ya Kotosaka (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
1994.4-1998.3 Tsuyoshi Suzuki (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
1995.4-1998.3 Yoshikazu Arai (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
2002.4-2005.3 Daisuke Chugo (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
2002.4-2005.3 Satoshi Kunimitsu (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
2004.4-2007.3 Kanako Saito (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
2004.4-2007.3 Yuki Sakaida (Dept. Precision Eng., The Univ. of Tokyo)
2006.4-2009.3 Kanako Nakajima (Course in Mathematics, Electronics and Informatics, Saitama Univ.)
2006.10-2014.9 Hiroki Murakami (Dept. Precision Eng., The Univ. of Tokyo)
2007.4-2012.3 Inyong Ha (Dept. Precision Eng., The Univ. of Tokyo)
2007.4-2009.3 Mari Nakamura (Dept. Precision Eng., The Univ. of Tokyo)
2008.10-2013.3 Gakuto Masuyama (Dept. Precision Eng., The Univ. of Tokyo)
2009.4-2012.3 Shiro Yano (Dept. Precision Eng., The Univ. of Tokyo)
2009.10-2013.9 Min Wu (Dept. Precision Eng., The Univ. of Tokyo)
2010.4-2014.9 Guanghui Li (Dept. Precision Eng., The Univ. of Tokyo)
2011.10-2014.9 Qi An (Dept. Precision Eng., The Univ. of Tokyo)
2013.4- Yuki Ishikawa (Dept. Precision Eng., The Univ. of Tokyo)
2013.10- Shunsuke Hamasaki (Dept. Precision Eng., The Univ. of Tokyo)
2013.10- Yonghoon Ji (Dept. Precision Eng., The Univ. of Tokyo)
2015.10- Renato Miyagusuku (Dept. Precision Eng., The Univ. of Tokyo)

(Date) Aug. 1, 2016

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