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Research interests:

- Human-Robot Interaction
- Mobile robotics
- Human interface
- Sports Engineering

Education

Mar. 2003	B.E. , Dept. of Systems Innovation, The University of Tokyo
Mar. 2005	M.E. , Dept. of Precision Engineering, The University of Tokyo
Mar. 2008	Ph.D. , Dept. of Precision Engineering, The University of Tokyo

Professional experiences

Apr. 2006 - Mar. 2008	JSPS Research Fellow (DC2)
Apr. 2007 - Sept. 2007	Visiting Scholar , Universität Bielefeld
Apr. 2008 - Nov. 2009	Project Researcher , RACE, The University of Tokyo
Dec. 2009 - Mar. 2012	Project Researcher , Graduate School of Engineering, The University of Tokyo
Apr. 2012 - Mar. 2015	Assistant Professor , Dept. of Precision Mechanics, Chuo University
Apr. 2015 - Mar. 2019	Project Associate Professor , Dept. of Precision Engineering, The University of Tokyo
Apr. 2019 - Mar. 2020	Project Associate Professor , Institute of Engineering Innovation, The University of Tokyo
Apr. 2020 - Aug. 2026	Associate Professor , Dept. of Robotics, Tohoku University
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Concurrent post

Nov. 2012 - Mar. 2013	Associate Visiting Researcher , RACE, The University of Tokyo
May 2013 - Mar. 2015	Visiting Researcher , Graduate School of Engineering, The University of Tokyo
Apr. 2014 - Sept. 2014	Adjunct Lecturer , Tokyo City University
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June 2020 - Mar. 2024	Visiting Researcher , Graduate School of Engineering, The University of Tokyo
Sep. 2026 - present	Visiting Associate Professor , Dept. of Robotics, Tohoku University

Publications

Journal Papers

- [66] Jialin Tu, [Yusuke Tamura](#), Yasuhisa Hirata, "Real-Time Human Gaze Target Estimation in 360-degree Vision via Integration of Human Gaze Direction and Scene Saliency Analysis," *ROBOMECH Journal*, Vol.12, 5 (2025).
- [65] Atsushi Mukai, Minato Kanda, Kenji Shimazoe, Fumihiko Ishida, Eiji Takada, [Yusuke Tamura](#), Hanwool Woo, Hiroyuki Takahashi, Mizuki Uenomachi, Hajime Asama, Jun Kawarabayashi, Kosuke Tanabe, Ken'ichi Tsuchiya, Kei Kamada, Hideki Tomita, "Development of Unmanned Remote System to Find Radiation Sources based on 4 π Gamma Imaging," *Journal of Robotics and Mechatronics*, Vol.36, No.1, pp.79-87 (2024).
- [64] Soichiro Tanno, [Yusuke Tamura](#), Yasuhisa Hirata, "Trajectory Prediction Considering the Behavior of Pedestrians Intersecting with Vehicles," *Advanced Robotics*, Vol.37, No.18, pp.1198-1209 (2023).
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- [61] Ziheng Chao, Ren Komatsu, Hanwool Woo, [Yusuke Tamura](#), Atsushi Yamashita, Hajime Asama, "Radiation Distribution Estimation with Non-directional Detector Using Plane Source Model," *Advanced Robotics*, Vol.36, No.4, pp.182-191 (2022).
- [60] Takuya Kishimoto, Hanwool Woo, Ren Komatsu, [Yusuke Tamura](#), Hideki Tomita, Kenji Shimazoe, Atsushi Yamashita, Hajime Asama, "Path Planning for Localization of Radiation Sources Based on Principal Component Analysis," *Applied Sciences*, Vol.11, No.10, 4707 (2021).
- [59] Hiroki Kogami, Qi An, Ningjia Yang, Ruoxi Wang, Kazunori Yoshida, Hiroyuki Hamada, Hiroshi Yamakawa, [Yusuke Tamura](#), Shingo Shimoda, Hiroshi Yamasaki, Moeka Sonoo, Fady Alnajjar, Noriaki Hattori, Koji Takahashi, Takanori Fujii, Hironori Otomune, Ichiro Miyai, Atsushi Yamashita, Hajime Asama, "Analysis of Muscle Synergy and Kinematics in Sit-to-Stand Motion of Hemiplegic Patients in Subacute Period," *Advanced Robotics*, Vol.35, No.13-14, pp.867-877 (2021).
- [58] Kazunori Yoshida, Qi An, Hiroyuki Hamada, Hiroshi Yamakawa, [Yusuke Tamura](#), Atsushi Yamashita, Hajime Asama, "Artificial Neural Network that Modifies Muscle Activity in Sit-to-Stand Motion Using Sensory Input," *Advanced Robotics*, Vol.35, No.13-14, pp.858-866 (2021).
- [57] Kei Aoyagi, Wen Wen, Qi An, Shunsuke Hamasaki, Hiroshi Yamakawa, [Yusuke Tamura](#), Atsushi Yamashita, Hajime Asama, "Modified Sensory Feedback Enhances the Sense of Agency during Continuous Body Movements in Virtual Reality," *Scientific Reports*, 11, 2553, pp.1-10 (2021).
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- [55] Shota Chikushi, Norihiro Yamauchi, [Yusuke Tamura](#), Hiroshi Yamakawa, Keiji Nagatani, Hiromitsu Fujii, Takumi Chiba, Shingo Yamamoto, Kazuhiro Chayama, Atsushi Yamashita, Hajime Asama, "Judgement of Trafficability of Construction Machinery Based on Estimation of Soil Parameters from Spectral Images," *Journal of the Japan Society for Precision Engineering*, Vol.86, No.12, pp.1057-1063 (2020, in Japanese). **[JSPE Takagi Award]**
- [54] Yusheng Wang, Yonghoon Ji, Dingyu Liu, [Yusuke Tamura](#), Hiroshi Tsuchiya, Atsushi Yamashita, Hajime Asama, "ACMarker: Acoustic Camera-based Fiducial Marker System in Underwater Environment," *IEEE Robotics and Automation Letters*, Vol.5, No.4, pp.5018-5025 (2020). **[SIYA-IROS2020]**
- [53] Hanwool Woo, Mizuki Sugimoto, Hirokazu Madokoro, Kazuhito Sato, [Yusuke Tamura](#), Atsushi Yamashita, Hajime Asama, "Goal Estimation of Mandatory Lane Changes Based on Interaction Between Drivers," *Applied Sciences*, Vol.10, No.9, 3289, pp.1-12 (2020).
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- [49] Ningjia Yang, Qi An, Hiroki Kogami, Hiroshi Yamakawa, Yusuke Tamura, Kouji Takahashi, Makoto Kinomoto, Hiroshi Yamasaki, Matti Itkonen, Fady Shibata-Alnajjar, Shingo Shimoda, Noriaki Hattori, Takanori Fujii, Hironori Otomune, Ichiro Miyai, Atsushi Yamashita, and Hajime Asama, "Temporal Muscle Synergy Features Estimate Effects of Short-Term Rehabilitation in Sit-to-Stand of Post-Stroke Patients," *IEEE Robotics and Automation Letters*, Vol.5, No.2, pp.1796-1802 (2020).
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- [45] Ren Komatsu, Hiromitsu Fujii, Yusuke Tamura, Atsushi Yamashita, and Hajime Asama, "Octave Deep Plane-Sweeping Network: Reducing Spatial Redundancy for Learning-based Plane-Sweeping Stereo," *IEEE Access*, Vol.7, No.1, pp.150306-150317 (2019).
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- [43] Hanwool Woo, Yonghoon Ji, Yusuke Tamura, Yasuhide Kuroda, Takashi Sugano, Yasunori Yamamoto, Atsushi Yamashita, Hajime Asama, "Lane-Change Detection Based on Individual Driving Style," *Advanced Robotics*, Vol.33, No.20, pp.1087-1098 (2019).
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- [30] Yasuyuki Awashima, Ren Komatsu, Hiromitsu Fujii, Yusuke Tamura, Atsushi Yamashita, Hajime Asama, "Visualization of Obstacles on Bird's-eye View by Omnidirectional 3D Ranging Using LiDAR for Remote Controlled Robot," *Journal of the Japan Society for Precision Engineering*, Vol.83, No.12, pp.1216-1223 (2017, in Japanese).
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- [28] Hitoshi Kono, Tsuyoshi Suzuki, Akiya Kamimura, Kohji Tomita, Yusuke Tamura, Atsushi Yamashita, and Hajime Asama, "Automatic Convergence Estimation by Utilizing Fractal Dimensional Analysis for Reinforcement Learning," *Journal of Instrumentation, Automation and Systems*, Vol.3, No.3, pp.58-70 (2016).
- [27] Doyeon Kim, Hanwool Woo, Yonghoon Ji, Yusuke Tamura, Atsushi Yamashita, and Hajime Asama, "Effect of Detector Pose Uncertainty in Localization of Radiation Sources," *E-Journal of Advanced Maintenance*, Vol.9, No.2, pp.97-103 (2017).
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- [22] Yuki Ishikawa, Qi An, Junki Nakagawa, Hiroyuki Oka, Tetsuro Yasui, Michio Tojima, Haruhi Inokuchi, Nobuhiko Haga, Hiroshi Yamakawa, Yusuke Tamura, Atsushi Yamashita, 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, Issue1-2, pp.68-79 (2017).
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- [20] Hanwool Woo, Yonghoon Ji, Hitoshi Kono, Yusuke Tamura, Yasuhide Kuroda, Takashi Sugano, Yasunori Yamamoto, Atsushi Yamashita, and Hajime Asama, "Automatic Detection Method of Lane-Changing Intentions Based on Relationship with Adjacent Vehicles Using Artificial Potential Fields," *International Journal of Automotive Engineering*, Vol.7, No.4, pp.127-134 (2016).
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- [13] Wataru Kumahara, Gakuto Masuyama, Yusuke Tamura, Atsushi Yamashita, Hajime Asama, "Mobile Robot Navigation Based on Local Route Information and Pedestrian's Flow," *Journal of the Japan Society for Precision Engineering*, Vol.79, No.4, pp.349-355 (2013, in Japanese).
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- [10] 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).
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- [7] Masao Sugi, Yuto Nakanishi, Masataka Nishino, Yusuke Tamura, Tamio Arai, and Jun Ota, "Development of Deskwork Support System using Pointing Gesture Interface," *Journal of Robotics and Mechatronics*, Vol.22, No.4, pp.430-438 (2010).
- [6] Masao Sugi, Ippei Matsumura, Yusuke Tamura, Makoto Nikaido, Jun Ota, Tamio Arai, Kiyoshi Kotani, Kiyoshi Takamasu, Hiromasa Suzuki, Akio Yamamoto, Yoichi Sato, Seiichi Shin, and Fumihiko Kimura, "Quantitative Evaluation of Automatic Parts Delivery in "Attentive Workbench" Supporting Workers in Cell Production," *Journal of Robotics and Mechatronics*, Vol.21, No.1 pp.135-145 (2009).
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Reviews

- [3] Yusuke Tamura, "Current and Future Photonics Technologies for Decommissioning Robots", *The Review of Laser Engineering*, Vol.47, No.11, pp.630-633 (2019, in Japanese).
- [2] Yusuke Tamura, "Human Resource Development for Decommissioning of Fukushima Daiichi Nuclear Power Plant", *Journal of the Robotics Society of Japan*, Vol.36, No.7, pp.456-459 (2018, in Japanese).

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Invited Talks (in English)

- [3] Yusuke Tamura, "Towards safe and smooth coexistence of mobile robots and inattentive humans," PNARUDE (Perception and Navigation for Autonomous Robots in Unstructured and Dynamic Environments) Workshop, 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems, (2022).
- [2] Yusuke Tamura, Hajime Asama, "Integration of Mobile Robotics and Radiation Measurement for Decommissioning of Fukushima Daiichi Nuclear Power Plant and other applications," Japan-Korea Joint Workshop on Next Generation Robotics, (2019).
- [1] Yusuke Tamura, "Robot Technology for Decommissioning of Fukushima Daiichi Nuclear Power Plant," Stakeholders' Workshop on Rehabilitation Efforts in Disaster-stricken Provinces in the Visayas, Philippines, IEEE-R10 Humanitarian Technology Conference, (2015).

Book Chapters (in English)

- [6] Kazunori Yoshida, Qi An, Hiroshi Yamakawa, Yusuke Tamura, Atsushi Yamashita, Hajime Asama, "Effect of Tilted Ground on Muscle Activity in Human Sit-to-Stand Motion: Preliminary Result," *Intelligent Autonomous Systems 16*, (2021, to appear).
- [5] Yuki Doi, Yonghoon Ji, Yusuke Tamura, Yuki Ikeda, Atsushi Umemura, Yoshiharu Kaneshima, Hiroki Murakami, Atsushi Yamashita, Hajime Asama, "Robust Path Planning against Pose Errors for Mobile Robots in Rough Terrain," *Intelligent Autonomous Systems 15*, M. Strand, R. Dillmann, E. Menegatti, and S. Ghidoni (Eds.), Springer, pp.27-39 (2019).
- [4] Yuki Ishikawa, Qi An, Yusuke Tamura, Atsushi Yamashita, Hajime Asama and Hiroyuki Oka, "Effect of Mediolateral Knee Displacement on Ligaments and Muscles around Knee Joint - Quantitative Analysis with Three-dimensional Musculoskeletal Ligament Knee Model," *Intelligent Autonomous Systems 12 - Advances in Intelligent and Soft Computing*, S. Lee, H. Cho, K-J. Yoon, and J. Lee (Eds.), Springer, pp.447-456 (2013).
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Awards

- **JSPE Takagi Award**, The Japan Society for Precision Engineering.
 Shota Chikushi, Norihiro Yamauchi, Yusuke Tamura, Hiroshi Yamakawa, Keiji Nagatani, Hiromitsu Fujii, Takumi Chiba, Shingo Yamamoto, Kazuhiro Chayama, Atsushi Yamashita, Hajime Asama, "Judgement of Trafficability of Construction Machinery Based on Estimation of Soil Parameters from Spectral Images," Journal of the Japan Society for Precision Engineering, Vol.86, No.12, pp.1057-1063, 2020.
- **Best Poster Award**, 2016 International Symposium on Micro-NanoMechatronics and Human Science
 Rin Minohara, Wen Wen, Shunsuke Hamasaki, Takaki Maeda, Qi An, Yusuke Tamura, Hiroshi Yamakawa, Atsushi Yamashita and Hajime Asama, "How Anticipation for the Sense of Agency Affects Readiness Potential"
- **Best Poster Award**, 2015 International Symposium on Micro-NanoMechatronics and Human Science
 Shunsuke Hamasaki, Qi An, Wen Wen, Yusuke Tamura, Hiroshi Yamakawa, Atsushi Yamashita, Hajime Asama, Satoshi Shibuya and Yukari Ohki, "Evaluating Effect of Sense of Ownership and Sense of Agency on Body Representation Change of Human Upper Limb"
- **Chuo University Award for Academic Excellence**, Chuo University (2013)
Yusuke Tamura
- **JSME Young Engineers Award**, The Japan Society of Mechanical Engineers (2012).
Yusuke Tamura, "Intention Estimation from Human Behavior and Development of Human Support System"
- **Outstanding Paper Award**, 6th International Conference on Ubiquitous Robots and Ambient Intelligence (2009).
Yusuke Tamura, Yu Murai, Hiroki Murakami, and Hajime Asama, "Identification of Types of Obstacles and Obstacle Map Building for Mobile Robots"
- **IEEE Robotics and Automation Society Japan Chapter Young Award**, 2005 IEEE/RSJ International Conference on Intelligent Robots and Systems
Yusuke Tamura, "Placement of Self-Moving Trays for the Deskwork Support System"
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Yusuke Tamura, Masao Sugi, Jun Ota, and Tamio Arai, "Deskwork Support System Based on the Estimation of Human Intentions"

Services for International Conferences

- 42nd ACM/SIGAPP Symposium on Applied Computing, Track on Intelligent Robotics and Multi-Agent Systems (2027), Program Committee
- International Symposium on Social Robots and Ethical Design 2026 (iSRED 2026), Program Committee
- 2026 IEEE/SICE International Symposium on System Integration (SII 2026), Associate Editor
- 2025 IEEE/SICE International Symposium on System Integration (SII 2025), Senior Program Committee

- 2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2024), Associate Editor
- 2024 IEEE International Conference on Robotics and Automation (ICRA 2024), Secretary
- 2024 IEEE/SICE International Symposium on System Integration (SII 2024), Associate Editor
- 2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2023), Associate Editor
- 2023 IEEE/SICE International Symposium on System Integration (SII 2023), Program Committee member
- 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2022), Associate Editor
- Augmented Humans 2022, Program Committee member
- 2022 IEEE/SICE International Symposium on System Integration (SII 2022), Program Committee member
- 2021 IEEE/SICE International Symposium on System Integration (SII 2021), Program Committee member
- 2020 IEEE/SICE International Symposium on System Integration (SII 2020), Program Committee member
- 2019 IEEE/SICE International Symposium on System Integration (SII 2019), Program Committee member
- 2017 IEEE/SICE International Symposium on System Integration (SII 2017), Program Committee member
- 2017 IEEE/SICE International Symposium on System Integration (SII 2017), Award Committee member
- 2017 IEEE International Conference on Robotics and Biomimetics (ROBIO 2017), Program Committee member
- 2016 IEEE/SICE International Symposium on System Integration (SII 2016), Program Committee member
- 2016 IEEE International Conference on Robotics and Biomimetics (ROBIO 2016), Program Committee member
- The 6th International Conference on Advanced Mechatronics (ICAM 2015), Publication Chair
- 2015 IEEE International Conference on Robotics and Biomimetics (ROBIO 2015), Program Committee member
- 2015 IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2015), Technical Program Committee member
- 2014 IEEE/SICE International Symposium on System Integration (SII 2014), Program Committee member
- 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2013), Publication Co-Chair
- 2013 IEEE International Workshop on Advanced Robotics and its Social Impacts (ARSO 2013), PaperPlaza Chair
- 2013 IEEE International Workshop on Advanced Robotics and its Social Impacts (ARSO 2013), Program Committee member
- 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2010), Webmaster
- 2009 IEEE International Workshop on Advanced Robotics and its Social Impacts (ARSO 2009), Secretariat

Societies

- The Institute of Electrical and Electronics Engineers (IEEE), Member
 - Robotics and Automation Society
- The Robotics Society of Japan, Member
 - Board Member (2023.03-2025.03)
 - Chair of the Editorial Committee (2024.03-2025.03)
- Japan Society of Mechanical Engineers, Member