Curriculum Vitae

Hideaki Ishii

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Current Position

 Professor, Department of Information Physics and Computing, Graduate School of Information Science and Technology, and Department of Mathematical Engineering and Information Physics, School of Engineering, The University of Tokyo, since April 2024.

Earlier Positions

- Professor (2020–2024), Associate Professor (2007–2020), Department of Computer Science, School of Computing, Tokyo Institute of Technology (until 2016: Department of Computational Intelligence and Systems Science, Interdisciplinary Graduate School of Science and Engineering).
 Also affiliated with: Cyber Security Research Center; Department of Systems and Control Engineering, School of Engineering; Center of Data Science and Artificial Intelligence.
- Research Associate, Department of Information Physics and Computing, Graduate School of Information Science and Technology, and Department of Mathematical Engineering and Information Physics, School of Engineering, The University of Tokyo, 2004–2007.
- Postdoctoral Research Associate, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, 2001–2004 (Research adviser: Professor Tamer Başar).

Short-Term Appointments

- Visiting Professor, Department of Computer Science, School of Computing, Institute of Science Tokyo (formerly, Tokyo Institute of Technology), Japan, April since 2024.
- Visiting Researcher, Technical University of Berlin, Germany, July-October 2018.
- Visiting Professor, City University of Hong Kong, China, September 2015.
- Visiting Researcher, University of Stuttgart, Germany, April 2014–March 2015.
- Visiting Researcher, IEIIT-CNR, Politecnico di Torino, Italy, October-November 2007, September 2008, November 2014.

Education

- Ph.D., Electrical and Computer Engineering, University of Toronto, 2002 (Supervisor: Professor Bruce A. Francis).
- M.Eng., Applied Systems Science, Kyoto University, Japan, 1998.
- B.Eng., Engineering Systems, University of Tsukuba, Japan, 1996.

Personal Data

Born in 1972 in Tokyo, Japan.

Nationality: Japanese

Research Interests

- Systems and control
- Control over communication networks
- Cooperative control of multi-agent systems
- Distributed algorithms for PageRank computation in search engines
- Cyber security of control systems with applications to power systems
- Hybrid dynamical systems

Awards and Honors

- Pleneary Lecture, IFAC Conference on Networked Systems (NecSys), Hong Kong, 2025.
- Professor Emeritus, Tokyo Institute of Technology, 2024.
- Supervisor for the Best Student Paper Award Finalist, The 22nd European Control Conference, Stockholm, Sweden, 2024.
- Co-author of the Best Young Author Award Finalist, IFAC Conference on Networked Systems, Zurich, July 2022.
- IEEE Fellow, Class of 2021, Citation: "For contributions to networked control of large-scale systems."
- Selected in the Tokyo Tech Research Map, 2023–2024, 2021–2022, and 2019–2020.
- IFAC Pavel J. Nowacki Distinguished Lecturer, 2020–2023.
- IFAC Outstanding Service Award, July 2020.
- Co-author for the Best Student Paper Award, 8th IFAC Workshop on Distributed Estimation and Control, Chicago, September 2019.
- SICE Control Division Conference Award, 2019.
- Plenary Lecture, 18th International Conference on Control, Automation and Systems (ICCAS), PyeongChang, Korea, October 2018.
- Tejima Memorial Research Award (Young Researcher Award), Tokyo Institute of Technology, 2017.
- SICE Outstanding Author Award, 2016.
- IEEE CSS Control Systems Magazine Outstanding Paper Award, 2015.

- Humboldt Research Fellowship, Alexander von Humboldt Foundation, 2014.
- Semi-Plenary Lecture, The 21st International Symposium on Mathematical Theory of Networks and Systems (MTNS), Groningen, The Netherlands, July 2014.
- SICE Outstanding Paper Award, 2013 and 2014.
- SICE Control Division Research Award (Kimura Award), 2013.
- Supervisor for the Best Student Paper Award Finalist, The 12th European Control Conference, Zurich, Switzerland, 2013.
- SICE Control Division Pioneer Award, 2010.
- Supervisor for the Best Student Paper Award, IEEE Multi-Conference on Systems and Control, Yokohama, Japan, 2010.
- Nominated as an outstanding reviewer for Automatica, 2003 and 2007.
- Wiley Prize for Best Student Paper, International Conference on Control 2000, Cambridge, U.K., 2000.
- University of Toronto Open Fellowship, 2000–2001.
- Japan Scholarship Foundation Award, 1996–1998.

Membership

- IEEE, Fellow
- SICE (Society of Instrument and Control Engineers, Japan)
- ISCIE (Institute of Systems, Control and Information Engineers, Japan)
- IEICE (Institute of Electronics, Information and Communication Engineers, Japan)

Editorial Activities

- Associate Editor, Mathematics of Control, Signals and Systems, since 2016.
- Associate Editor, IEEE Control Systems Letters, 2017–2022.
- Associate Editor, IEEE Transactions on Control of Network Systems, 2015–2018.
- Associate Editor, Automatica, 2008–2017.
- Associate Editor, IEEE Transactions on Automatic Control, 2009–2011.
- Associate Editor, Transactions of the SICE, 2011–2013.
- Guest Editor, Special Section on Resilient and Safe Control in Multi-Agent Systems, IEEE Open Journal of Control Systems, 2023–2024.
- Guest Editor, Special Issue on Control Technology for Networked and Distributed Robotics, Advanced Robotics, 2021–2022.
- Guest Editor, Special Section on Learning and Control for Multi-agent Systems, Annual Reviews in Control, 2021–2022.
- Guest Editor, Special Issue on Security and Privacy Issues of Smart Network Systems, IEEE Transactions on Network Science and Engineering, 2020.
- Guest Editor, Special Issue on Feedback Control for the Internet of Things, IEEE Internet of Things Journal, 2016–2018.

- Senior IPC Member, European Control Conference, 2020–2025.
- Member, Conference Editorial Board of the European Control Association (EUCA), 2013–2018.
- Member, Conference Editorial Board of the IEEE Control Systems Society, 2007–2009.
- Member, Editorial Committee, Journal of the SICE, 2005–2007.

Scientific and Professional Activities

International Federation of Automatic Control (IFAC)

- IPC Vice-Chair, 23rd World Congress of the International Federation of Automatic Control (IFAC), Busan, Republic of Korea, August 2026.
- Chair, IFAC Pavel J. Nowacki Distinguished Lecturer Committee, since 2023.
- Chair, IFAC Foundation Kwon Award Selection Committee, 2021–2023.
- Member, Manfred Thoma Medal Selection Committee, 2020–2023.
- Chair, IFAC Coordinating Committee on Systems and Signals (CC 1), 2017–2023.
- Member, Technical Board, 2017–2023.
- Ex-Officio Member, Conference Board, since 2020.
- Chair, IFAC Technical Committee on Networked Systems (TC 1.5), 2011–2017 (Member, since 2004).
- IPC Chair, 22nd World Congress of the International Federation of Automatic Control (IFAC), Yokohama, Japan, July 2023.
- Editor, 22nd World Congress of the International Federation of Automatic Control (IFAC),
 Yokohama, Japan, July 2023.
- Editor, 21st World Congress of the International Federation of Automatic Control (IFAC), Berlin, Germany, July 2020.
- Associate Editor, 20th World Congress of the International Federation of Automatic Control (IFAC), Toulouse, France, July 2017.
- Associate Editor, 19th World Congress of the International Federation of Automatic Control (IFAC), Cape Town, South Africa, August 2014.
- Conference Chair, 6th IFAC Workshop on Distributed Estimation and Control in Networked Systems, Tokyo, September 2016.

IEEE Control Systems Society (IEEE CSS)

- Vice President (for Diversity, Outreach, and Development), 2022–2023.
- Elected Member, Board of Governors, 2014–2016.
- Member, IEEE CSS Technical Committee on Security and Privacy, since 2021.
- Member, IEEE CSS Technical Committee on Networks and Communications, since 2015.
- Member, IEEE CSS Technical Committee on Computational Aspects of Control System Design, since 2010.
- Publicity Chair, 62nd IEEE Conference on Decision and Control, Marina Bay Sands, Singapore, December 2023.

- Publicity Chair, 59th IEEE Conference on Decision and Control, Jeju Island, Korea, December 2020.
- Workshop Co-Chair, 3rd IEEE Conference on Control Technology and Applications (CCTA'19), Hong Kong, August 2019.
- Liaison Representative for SICE, IEEE Control Systems Society, 2019–2021.
- Chair, Japan Chapter of the IEEE Control Systems Society, since 2018 (Co-Chair, 2016–2017).
- Co-organizer (with Quanyan Zhu), Workshop on Learning and Security for Multi-Agent Systems,
 59th IEEE Conference on Decision and Control, Jeju Island, Republic of Korea, December 2020.
- Co-organizer (with Masaaki Nagahara, Kenji Kashima, and Kenji Sugimoto), Workshop on Mathematical Theory of Control and Signal Processing in the Digital World (A workshop dedicated to Yutaka Yamamoto's 70th birthday), 58th IEEE Conference on Decision and Control, Nice, France, December 2019.
- Co-organizer (with Quanyan Zhu), Workshop on Secure and Resilient Control Systems, 57th
 IEEE Conference on Decision and Control, Miami, Florida, December 2018.
- Publicity Chair, 54th IEEE Conference on Decision and Control, Osaka, Japan, December 2015.
- Registration Chair, IEEE Multi-Conference on Systems and Control (MSC'10), Yokohama, Japan, September 2010.
- TPC Member, IEEE Conference on Decision and Control, 2019, 2018, 2016, 2013, 2012.

Society of Instrument and Control Engineers (SICE), Japan

- Director (for the SICE Annual Conference), 2021–2022.
- Member, SICE Diversity Improvement Activities Committee (SICE-DIA), since 2021.
- Chair, IFAC Committee of the SICE, since 2017. Secretary, 2012–2017.
- Member, Committee of International Affairs, since 2016, 2008–2009.
- Secretary, Control Division of the SICE, 2012.

Japan Association of Automatic Control (JAAC)

- Director, since 2020.
- Co-organizer (with H. Asama and J. Imura), IFAC WC 2023 Pre-event Workshop, Yokohama, Japan, November 2022.
- Co-organizer (with R. Tanaka, T. Hayakawa, Y. Minami, K. Shimizu, and D. Tsubakino), Girls in Control Workshop (in Japanese), since 2021.
- Co-organizer (with H. Asama and J. Imura), IFAC WC 2023 Pre-event Workshop, Nagoya, Japan, November 2018.

Science Council of Japan

- Associate Member (Specially Appointed), 2022–2026.
- Member, Committee on Preparation of the IFAC World Congress 2023, 2015–2016.
- Member, Committee on Preparation of the IFAC World Congress 2020, 2012–2013.

Others

- Member, Steering Committee, Asian Control Association, since 2025.
- Member, Local Organizing Committee, Symposium on Developments in Control Theory Towards Glocal Control (in honor of Professor Shinji Hara), University of Tokyo, January 2012.
- Member, Organization Committee, Workshop on Uncertain Dynamical Systems, Awaji Yumebutai, Hyogo, July 2008.
- Reviewer, Mathematical Reviews, Michigan, USA, 2008–2015.

Publications

Google Scholar Citations: 8558 (h-index: 46, i10-index: 126)

Books

- [B3] H. Ishii and Q. Zhu (editors), Security and Resilience of Control Systems: Theory and Applications, vol. 489 in Lecture Notes in Control and Information Sciences, Springer, 2022.
- [B2] S. Fang, J. Chen, and H. Ishii, Towards Integrating Control and Information Theories: From Information-Theoretic Measures to Control Performance Limitations, vol. 465 in Lecture Notes in Control and Information Sciences, Springer, 2017.
- [B1] H. Ishii and B. A. Francis, Limited Data Rate in Control Systems with Networks, vol. 275 in Lecture Notes in Control and Information Sciences, Springer, 2002.

Journal Articles

- [J112] J. Yan, K. Li, and H. Ishii, "Distributed parameter estimation under Byzantine nodes in sensor networks," *IEEE Transactions on Network Science and Engineering*, to appear, 2025.
- [J111] L. Yuan and H. Ishii, "Resilient consensus with multi-hop communication," *IEEE Transactions on Automatic Control*, to appear, 2025.
- [J110] Y. Wang, S. Gracy, H. Ishii, and K. H. Johansson, "Mitigation of discrete-time SIS networked epidemics: A local state feedback approach," *International Journal of Robust and Nonlinear Control*, 35(9): 3887–3905, 2025.
- [J109] Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, "A rolling horizon game considering network effect in cluster forming for dynamic resilient multiagent systems," Automatica, 175: 112137, 2025.
- [J108] J. Yan and H. Ishii, "Distributed parameter estimation with Gaussian observation noises in time-varying digraphs," *Automatica*, 176: 112209, 2025.
- [J107] I. Takaki, A. Cetinkaya, and H. Ishii, "Data-driven quantized control of unknown linear systems with uncertainties," *Transactions of the SICE*, 61(2): 77–85, 2025(in Japanese).
- [J106] X. Kang and H. Ishii, "Quantization effects on zero-dynamics attacks to closed-loop sampled-data control systems," IEEE Open Journal of Control Systems, 4: 18–29, 2025.
- [J105] L. Yuan and H. Ishii, "Resilient average consensus with adversaries via distributed detection and recovery," *IEEE Transactions on Automatic Control*, 70(1): 415–430, 2025.
- [J104] L. Yuan and H. Ishii, "Asynchronous approximate Byzantine consensus: A multi-hop relay method and tight graph conditions," *Automatica*, 171: 111908, 2024.
- [J103] R. Kato and H. Ishii, "Cluster synchronization of Kuramoto oscillators and the method of averaging," *IEEE Transactions on Automatic Control*, 69(12): 8386–8401, 2024.

- [J102] Q. Xu and H. Ishii, "On a discrete-time networked SIV epidemic model with polar opinion dynamics," *IEEE Transactions on Network Science and Engineering*, 11(6): 6636–6651, 2024.
- [J101] Y. Iori and H. Ishii, "Resilient synchronization of pulse-coupled oscillators under stealthy attacks," *IEEE Open Journal of Control Systems*, Special Section on Resilient and Safe Control in Multi-Agent Systems, 3: 429–444, 2024.
- [J100] J. Yan, Y. Mo, and H. Ishii, "A framework for distributed estimation with reduced communication via event-based strategies," *IEEE Transactions on Automatic Control*, 69(6): 3544–3559, 2024.
- [J99] K. Kimura and H. Ishii, "Quantized zero dynamics attacks against sampled-data control systems," *IEEE Transactions on Automatic Control*, 69(5): 3418–3425, 2024.
- [J98] S. Feng, M. Ran, H. Ishii, and S. Xu, "Dynamic quantized consensus under DoS attacks: Towards a tight zooming-out factor," *IEEE Transactions on Control of Network Systems*, 11(1): 340–352, 2024.
- [J97] H. Matsume, Y. Wang, H. Ishii, and X. Defago, Mixed self/event-triggered ternary control for resilient consensus against mobile adversarial agents, Nonlinear Analysis: Hybrid Systems, 52: 101473, 2024.
- [J96] R. Kato and H. Ishii, "Hausdorff dimension estimates for interconnected systems with variable metrics," *IEEE Control Systems Letters*, 7: 3247-3252, 2023.
- [J95] L. Yuan and H. Ishii, "Event-triggered approximate Byzantine consensus with multi-hop communication," *IEEE Transactions on Signal Processing*, 71: 1742–1754, 2023.
- [J94] A. Cetinkaya, H. Ishii, and T. Hayakawa, "Effects of jamming attacks on wireless networked control systems under disturbance," *IEEE Transactions on Automatic Control*, 68(2): 1223–1230, 2023.
- [J93] N. Ahmadi, Y. Chakhchoukh, and H. Ishii, "Analysis of targeted coordinated attacks on decomposition-based robust state estimation," IEEE Open Access Journal of Power and Energy, 10: 116–127, 2023.
- [J92] R. K. Mishra and H. Ishii, "Event-triggered control for discrete-time multi-agent average consensus," *International Journal of Robust and Nonlinear Control*, Special Issue on Sparsity-inducing Methods in Control Theory, 33(1): 159–176, 2023.
- [J91] Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, "Rolling horizon games of resilient networks with non-uniform horizons," *European Journal of Control*, European Control Conference Special Issue, 68: 100693, 2022.
- [J90] Y. Wang, H. Ishii, F. Bonnet, and X. Defago, Resilient consensus for multi-agent systems under adversarial spreading processes, *IEEE Transactions on Network Science and Engineering*, 9(5): 3316–3331, 2022.
- [J89] M. Safi, S. M. Dibaji, and H. Ishii, Cooperative distributed state estimation: Resilient topologies against smart spoofers, Control Theory and Technology, 20: 488–503, 2022.
- [J88] S. Feng, A. Cetinkaya, H. Ishii, P. Tesi, and C. De Persis, "Resilient quantized control under Denial-of-Service: Variable bit rate quantization," *Automatica*, 141: 110302, 2022.
- [J87] M. Shi, S. Feng, and H. Ishii, "Quantized state feedback stabilization of nonlinear systems under Denial-of-Service," *Automatica*, 139: 110180, 2022.
- [J86] H. Ishii, Y. Wang, and S. Feng, "An overview on multi-agent consensus under adversarial attacks," *Annual Reviews in Control*, Special Section on Learning and Control for Multi-agent

- Systems, 53: 252-272, 2022. (Also, presented at the 10th IFAC Symposium on Robust Control Design (ROCOND'22) as a dissemination paper, 2022.)
- [J85] R. Kato, A. Cetinkaya, and H. Ishii, "Linearization-based quantized stabilization of nonlinear systems under DoS attacks," *IEEE Transactions on Automatic Control*, 67(12): 6826-6833, 2022.
- [J84] S. Feng and H. Ishii, "Dynamic quantized consensus of general linear multi-agent systems under Denial-of-Service attacks," *IEEE Transactions on Control of Network Systems*, 9(2): 562-574, 2022.
- [J83] Y. Wang, H. Ishii, F. Bonnet, and X. Defago, "Resilient real-valued consensus in spite of mobile malicious agents on directed graphs," *IEEE Transactions on Parallel and Distributed Systems*, 33(3): 586–603, 2022.
- [J82] R. Kato, A. Cetinkaya, and H. Ishii, "Security analysis of linearization for nonlinear networked control systems under DoS," *IEEE Transactions on Control of Network Systems*, 8(4): 1692–1704, 2021.
- [J81] M. Nakamura, H. Ishii, and S. M. Dibaji, "Resiliency against malicious agents in maximum-based consensus," SICE Journal of Control, Measurement, and System Integration, 14(1): 279–290, 2021.
- [J80] J. M. Maestre, P. Velarde, H. Ishii, and R. R. Negenborn, "Scenario-based defense mechanism against vulnerabilities in Lagrange-based DMPC," Control Engineering Practice, 114: 104879, 2021.
- [J79] X. Wang, H. Ishii, J. He, and P. Cheng, "Dynamic privacy-aware collaborative schemes for average computation: A multi-time reporting case," *IEEE Transactions on Information Forensics* and Security, 16: 3843–3858, 2021.
- [J78] H. Matsume, Y. Wang, and H. Ishii, "Resilient self/event-triggered consensus based on ternary control," Nonlinear Analysis: Hybrid Systems, 42: 101091, 2021.
- [J77] L. Yuan and H. Ishii, "Secure consensus with distributed detection via two-hop communication," *Automatica*, 131: 109775, 2021.
- [J76] N. Ahmadi, Y. Chakhchoukh, and H. Ishii, "Power systems decomposition for robustifying state estimation under cyber attacks," *IEEE Transactions on Power Systems*, 36(3): 1922–1933, 2021.
- [J75] Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, "Dynamic resilient network games with applications to multi-agent consensus," *IEEE Transactions on Control of Network Systems*, 8(1): 246–259, 2021.
- [J74] S. Feng, A. Cetinkaya, H. Ishii, P. Tesi, and C. De Persis, "Networked control under DoS attacks: Trade-offs between resilience and data rate," *IEEE Transactions on Automatic Control*, 66(1): 460–467, 2021.
- [J73] X. Wang, H. Ishii, L. Du, P. Cheng, and J. Chen, "Privacy-preserving distributed machine learning via local randomization and ADMM perturbation," *IEEE Transactions on Signal Processing*, 68: 4226–4241, 2020.
- [J72] M. Wakaiki, A. Cetinkaya, and H. Ishii, "Stabilization of networked control systems under DoS attacks and output quantization," *IEEE Transactions on Automatic Control*, 65(8): 3560–3575, 2020.
- [J71] A. Cetinkaya, K. Kikuchi, T. Hayakawa, and H. Ishii, "Randomized transmission protocols for protection against jamming attacks in multi-agent consensus," *Automatica*, 117: 108960, 2020.

- [J70] Y. Wang and H. Ishii, "An event-triggered approach to quantized resilient consensus," *International Journal of Robust and Nonlinear Control*, Special Issue on Privacy and Security of Cyber-Physical Systems, 30(11): 4188–4204, 2020.
- [J69] Y. Wang and H. Ishii, "Resilient consensus through event-based communication," *IEEE Transactions on Control of Network Systems*, 7(1): 471–482, 2020.
- [J68] W. Ananduta, J. M. Maestre, C. Ocampo-Martinez, and H. Ishii, "Resilient distributed model predictive control for energy management of interconnected microgrids," *Optimal Control, Applications and Methods*, Special Issue on MPC for Energy Systems: Economic and Distributed Approaches, 41(1): 146–169, 2020.
- [J67] J. Chen, S. Fang, and H. Ishii, "Fundamental limitations and intrinsic limits of feedback: An overview in an information age," *Annual Reviews in Control*, 47: 155–177, 2019.
- [J66] A. Cetinkaya, H. Ishii, and T. Hayakawa, "Analysis of stochastic switched systems with application to networked control under jamming attacks," *IEEE Transactions on Automatic Control*, 64(5): 2013–2028, 2019.
- [J65] A. Cetinkaya, H. Ishii, and T. Hayakawa, "An overview on denial-of-service attacks in control systems: Attack models and security analyses," *Entropy*, Special Issue on Entropy in Networked Control, 21(2): 210, 2019.
- [J64] S. Fang, J. Chen, and H. Ishii, "Power gain bounds of MIMO networked control systems: An entropy perspective," *IEEE Transactions on Automatic Control*, 64(3): 1170–1177, 2019.
- [J63] A. Cetinkaya, H. Ishii, and T. Hayakawa, "A probabilistic characterization of random and malicious communication failures in multi-hop networked control," SIAM Journal on Control and Optimization, 56(5): 3320–3350, 2018.
- [J62] S. Linsenmayer, H. Ishii, and F. Allgöwer, "Containability with event-based sampling for scalar systems with time-varying delay and uncertainty," *IEEE Control Systems Letters*, 2(4): 725–730, 2018.
- [J61] K. Takijiri and H. Ishii, "Networked control of uncertain systems via the coarsest quantization and lossy communication," Systems & Control Letters, 119: 57–63, 2018.
- [J60] A. Cetinkaya, H. Ishii, and T. Hayakawa, "The effect of time-varying jamming interference on networked stabilization," SIAM Journal on Control and Optimization, 56(3): 2398–2435, 2018.
- [J59] S. M. Dibaji, H. Ishii, and R. Tempo, "Resilient randomized quantized consensus," *IEEE Transactions on Automatic Control*, 63(8): 2508–2522, 2018.
- [J58] Y. Kikuya, S. M. Dibaji, and H. Ishii, "Fault tolerant clock synchronization over unreliable channels in wireless sensor networks," *IEEE Transactions on Control of Network Systems*, 5(4): 1551–1562, 2018.
- [J57] S. Akashi, H. Ishii, and A. Cetinkaya, "Self-triggered control with tradeoffs in communication and computation," *Automatica*, 94: 373–380, 2018.
- [J56] P. Velarde, J. M. Maestre, H. Ishii, and R. Negenborn, "Vulnerabilities in Lagrange-based distributed model predictive control," Optimal Control, Applications and Methods, 39(2): 601–621, 2018.
- [J55] J. M. Maestre, H. Ishii, and E. Algaba, "Node aggregation for enhancing PageRank," IEEE Access, 5: 19799–19811, 2017.
- [J54] J. M. Maestre and H. Ishii, "A PageRank based coalitional control scheme," *International Journal of Control, Automation and Systems*, 15: 1983–1990, 2017.

- [J53] Y. Chakhchoukh, V. Vittal, G. T. Heydt, and H. Ishii, "LTS-based robust hybrid SE integrating correlation," *IEEE Transactions on Power Systems*, 32: 3127–3135, 2017.
- [J52] S. Zeng, H. Ishii, and F. Allgöwer, "Sampled observability and state estimation of linear discrete ensembles," *IEEE Transactions on Automatic Control*, 62: 2406–2418, 2017.
- [J51] A. Cetinkaya, H. Ishii, and T. Hayakawa, "Networked control under random and malicious packet losses," *IEEE Transactions on Automatic Control*, 62: 2434–2449, 2017.
- [J50] S. M. Dibaji and H. Ishii, "Resilient consensus of second-order agent networks: Asynchronous update rules over robust graphs," *Automatica*, 81: 123–132, 2017.
- [J49] K. Okano and H. Ishii, "Stabilization of uncertain systems using quantized and lossy observations and uncertain control inputs," *Automatica*, 81: 261–269, 2017.
- [J48] S. Fang, J. Chen, and H. Ishii, "Design constraints and limits of networked feedback in disturbance attenuation: An information-theoretic analysis," *Automatica*, 79: 65–77, 2017.
- [J47] S. Fang, H. Ishii, and J. Chen, "Trade-offs in networked feedback systems: From information-theoretic measures to Bode-type integrals," *IEEE Transactions on Automatic Control*, 62: 1046–1061, 2017.
- [J46] Y. Chakhchoukh and H. Ishii, "Enhancing robustness to cyber-attacks in power systems through multiple least trimmed squares state estimations," *IEEE Transactions on Power Systems*, 31: 4395–4405, 2016.
- [J45] Y. Isozaki, S. Yoshizawa, Y. Fujimoto, H. Ishii, I. Ono, T. Onoda, and Y. Hayashi, "Detection of cyber attacks against voltage control in distribution power grids with PVs," *IEEE Transactions* on Smart Grid, 7: 1824–1835, 2016.
- [J44] E.-W. Bai, H. Ishii, and R. Tempo, "A Markov chain Monte Carlo approach to nonlinear parametric system identification," *IEEE Transactions on Automatic Control*, 60: 2542–2546, 2015.
- [J43] Y. Kadowaki and H. Ishii, "Event-based distributed clock synchronization for wireless sensor networks," *IEEE Transactions on Automatic Control*, 60: 2266–2271, 2015.
- [J42] Y. Chakhchoukh and H. Ishii, "Coordinated cyber-attacks on the measurement function in hybrid state estimation," *IEEE Transactions on Power Systems*, 30: 2487–2497, 2015.
- [J41] P. Frasca, H. Ishii, C. Ravazzi, and R. Tempo, "Distributed randomized algorithms for opinion formation, centrality computation and power systems estimation: A tutorial overview," *European Journal of Control*, 24: 2–13, 2015.
- [J40] S. M. Dibaji and H. Ishii, "Consensus of second-order multi-agent systems in the presence of locally bounded faults," Systems & Control Letters, 79: 23–29, 2015.
- [J39] C. Ravazzi, P. Frasca, R. Tempo, and H. Ishii, "Ergodic randomized algorithms and dynamics over networks," *IEEE Transactions on Control of Network Systems*, 2: 78–87, 2015.
- [J38] X. Kang and H. Ishii, "Coarsest quantization for networked control of uncertain linear systems," *Automatica*, 51: 1–8, 2015.
- [J37] K. Okano and H. Ishii, "Stabilization of uncertain systems with finite data rates and Markovian packet losses," *IEEE Transactions on Control of Network Systems*, 1: 298–307, 2014.
- [J36] H. Ishii and R. Tempo, "The PageRank problem, multi-agent consensus and web aggregation: A systems and control viewpoint," *IEEE Control Systems Magazine*, 34(3): 34–53, 2014.
- [J35] K. Cai and H. Ishii, "Average consensus on arbitrary strongly connected digraphs with time-varying topologies," *IEEE Transactions on Automatic Control*, 59: 1066–1071, 2014.

- [J34] K. Okano and H. Ishii, "Networked control of uncertain systems over data rate limited and lossy channels," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, E96-A: 853–860, 2013.
- [J33] H. Ishii, R. Tempo, and E.-W. Bai, "PageRank computation via a distributed randomized approach with lossy communication," Systems & Control Letters, 61: 1221–1228, 2012.
- [J32] H. Ishii, R. Tempo, and E.-W. Bai, "A web aggregation approach for distributed randomized PageRank algorithms," *IEEE Transactions on Automatic Control*, 57: 2703–2717, 2012.
- [J31] K. Cai and H. Ishii, "Average consensus on general strongly connected digraphs," Automatica, 48: 2750–2761, 2012.
- [J30] T. Okajima, K. Tsumura, T. Hayakawa, and H. Ishii, "Cooperative adaptive control of heterogeneous multi-agent systems for leader tracking: Discrete-time case," Transactions of the SICE, 48: 536–544, 2012 (in Japanese).
- [J29] K. Cai and H. Ishii, "Convergence time analysis of quantized gossip consensus on digraphs," Automatica, 48: 2344–2351, 2012.
- [J28] H. Ishii and K. Tsumura, "Networked control systems and communication constraints," IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, E95-A: 680-690, 2012.
- [J27] K. Cai and H. Ishii, "Quantized consensus and averaging on gossip digraphs," *IEEE Transactions on Automatic Control*, 56: 2087–2100, 2011.
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- [C81] K. Takijiri and H. Ishii, "Networked control of uncertain systems via the coarsest quantization and lossy communication," Proc. 20th IFAC World Congress, pp. 6570–6575, Toulouse, France, July 2017.
- [C80] S. M. Dibaji, H. Ishii, and R. Tempo, "Resilient randomized quantized consensus with delayed information," Proc. 55th IEEE Conference on Decision and Control, pp. 3505–3510, Las Vegas, December 2016.
- [C79] A. Cetinkaya, H. Ishii, and T. Hayakawa, "Enhanced stability analysis for networked control systems under random and malicious packet losses," Proc. 55th IEEE Conference on Decision and Control, pp. 2721–2726, Las Vegas, December 2016.
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- [C76] S. Akashi, H. Ishii, and A. Cetinkaya, "Self-triggered control for communication reduction in networked systems," Proc. 6th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys'16), pp. 280–285, Tokyo, Japan, September 2016.
- [C75] Y. Kikuya and H. Ishii, "A fault tolerant protocol for clock synchronization in sensor networks," Proc. 6th IFAC Workshop on Distributed Estimation and Control in Networked Systems (Nec-Sys'16), pp. 181–186, Tokyo, Japan, September 2016.
- [C74] Y. Chakhchoukh, S. Liu, M. Sugiyama, and H. Ishii, "Statistical outlier detection for diagnosis of cyber attacks in power state estimation," Proc. IEEE Power & Energy Society General Meeting, Boston, July 2016.
- [C73] S. M. Dibaji, H. Ishii, and R. Tempo, "Resilient randomized quantized consensus," Proc. American Control Conference, pp. 5118–5123, Boston, July 2016.
- [C72] J. M. Maestre and H. Ishii, "A cooperative game theory approach to the PageRank problem," Proc. American Control Conference, pp. 3820–3825, Boston, July 2016.
- [C71] S. Zhen, H. Ishii, and F. Allgöwer, "Sampled observability of discrete heterogeneous ensembles from anonymized output measurements," Proc. 54th IEEE Conference on Decision and Control, pp. 5683–5688, Osaka, Japan, December 2015.
- [C70] S. Fang, H. Ishii, and J. Chen, "Bode-type integrals of multivariate networked feedback systems and fire-quenching power allocation," Proc. 54th IEEE Conference on Decision and Control, pp. 6178–6183, Osaka, Japan, December 2015.
- [C69] A. Cetinkaya, H. Ishii, and T. Hayakawa, "Event-triggered control over unreliable networks subject to jamming attacks," Proc. 54th IEEE Conference on Decision and Control, pp. 4818– 4823, Osaka, Japan, December 2015.
- [C68] S. M. Dibaji and H. Ishii, "Resilient consensus of double-integrator multi-agent networks with communication delays," Proc. 54th IEEE Conference on Decision and Control, pp. 4290–4295, Osaka, Japan, December 2015.
- [C67] A. Cetinkaya, H. Ishii, and T. Hayakawa, "Event-triggered output feedback control resilient against jamming attacks and random packet losses," *Proc. 5th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys'15)*, Philadelphia, September 2015.
- [C66] S. M. Dibaji and H. Ishii, "Resilient multi-agent consensus with asynchrony and delayed information," Proc. 5th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys'15), Philadelphia, September 2015.
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- [C63] S. Zeng, H. Ishii, and F. Allgöwer, "On the state estimation problem for discrete ensembles from discrete-time output snapshots," Proc. American Control Conference, pp. 4844–4849, 2015. Chicago, Illinois, July 2015.
- [C62] Y. Chakhchoukh and H. Ishii, "Cyber attacks scenarios on the measurement function of power state estimation," Proc. American Control Conference, pp. 3676–3681 Chicago, Illinois, July 2015.

- [C61] S. M. Dibaji and H. Ishii, "Resilient consensus of second-order agent networks: Asynchronous update rules over robust graphs," Proc. American Control Conference, pp. 1451–1456 Chicago, Illinois, July 2015.
- [C60] Y. Isozaki, S. Yoshizawa, Y. Fujimoto, H. Ishii, I. Ono, T. Onoda, and Y. Hayashi, "On detection of cyber attacks against voltage control in distribution power grids," Proc. IEEE International Conference on Smart Grid Communications, pp. 848–853, Venice, Italy, November 2014.
- [C59] S. Fang, H. Ishii, and J. Chen, "Control over additive white Gaussian noise channels: Bode-type integrals, channel blurredness, negentropy rate, and beyond," Proc. 18th IFAC World Congress, pp. 3770-3775, Cape Town, South Africa, August 2014.
- [C58] H. Nishino and H. Ishii, "Distributed detection of cyber attacks and faults for power systems," Proc. 18th IFAC World Congress, pp. 11932-11937, Cape Town, South Africa, August 2014.
- [C57] T. Okajima, K. Tsumura, T. Hayakawa, and H. Ishii, "Leader following of partially heterogeneous multi-agent systems via cooperative adaptive control," Proc. 21st International Symposium on Mathematical Theory of Networks and Systems, pp. 1582–1588, Groningen, the Netherlands, July 2014.
- [C56] K. Okano and H. Ishii, "Stabilization of uncertain systems with finite data rates," Proc. European Control Conference, pp. 240–245, Strassburg, France, June 2014.
- [C55] S. M. Dibaji and H. Ishii, "Resilient consensus of double-integrator multi-agent systems," Proc. American Control Conference, pp. 5139–5144, Portland, Oregon, June 2014.
- [C54] Y. Kadowaki and H. Ishii, "Event-based distributed clock synchronization for wireless sensor networks," Proc. 52nd IEEE Conference on Decision and Control, pp. 6747–6752, Florence, Italy, December 2013.
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- [C52] P. Frasca, C. Ravazzi, R. Tempo, and H. Ishii, "Gossips and prejudices: Ergodic randomized dynamics in social networks," Proc. 4th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys'13), pp. 212–219, Koblenz, Germany, September 2013.
- [C51] X. Kang and H. Ishii, "Coarsest quantization for networked control of uncertain systems," Proc. 4th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys'13), pp. 1–6, Koblenz, Germany, September 2013.
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- [C49] C. Ravazzi, P. Frasca, H. Ishii, and R. Tempo, "A distributed randomized algorithm for relative localization in sensor networks," Proc. European Control Conference, pp. 1776–1781, Zurich, Switzerland, July 2013.
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- [C37] K. Cai and H. Ishii, "Further results on randomized quantized averaging: A surplus-based approach," Proc. 2010 IEEE Int. Symp. Computer-Aided Control System Design, pp. 1558–1563, Yokohama, Japan, September 2010.
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- [C32] H. Ishii and R. Tempo, "Distributed PageRank computation with link failures," Proc. 2009 American Control Conference, pp. 1976–1981, St. Louis, Missouri, June 2009.
- [C31] H. Ishii and R. Tempo, "A distributed randomized approach for the PageRank computation: Part 1," Proc. 47th IEEE Conference on Decision and Control, pp. 3523–3528, Cancun, Mexico, December 2008.
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- [C27] K. Okano, S. Hara, and H. Ishii, "Characterization of a complementary sensitivity property in feedback control: An information theoretic approach," Proc. 17th IFAC World Congress, pp. 5185–5190, Seoul, Korea, July 2008.
- [C26] H. Ishii, "On the feedback information in stabilization over unreliable channels," Proc. 17th IFAC World Congress, pp. 8050–8055, Seoul, Korea, July 2008.
- [C25] H. Ishii and R. Tempo, "Las Vegas randomized algorithms in distributed consensus problems," Proc. 2008 American Control Conference, pp. 2579–2584, Seattle, Washington, June 2008.
- [C24] H. Hoshina, K. Tsumura, and H. Ishii, "The coarsest logarithmic quantizers for stabilization of linear systems with packet losses," Proc. 46th IEEE Conference on Decision and Control, pp. 2235–2240, New Orleans, December 2007.
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- [C20] H. Ishii, "Stabilization under shared communication with message losses and its limitations," Proc. 45th IEEE Conference on Decision and Control, pp. 4974–4979, San Diego, California, December 2006.
- [C19] H. Ishii, "Remote control of sampled-data systems under constrained communication," *Proc. IEEE Conference on Control Applications*, pp. 1689–1694, Munich, Germany, October 2006.
- [C18] H. Ishii and S. Hara, "A subband coding approach to networked control," Proc. 17th International Symposium on Mathematical Theory of Networks and Systems, pp. 2906–2911, Kyoto, Japan, July 2006.
- [C17] T. Hayakawa, H. Ishii, and K. Tsumura, "Adaptive quantized control for nonlinear uncertain systems," Proc. 2006 American Control Conference, pp. 2706–2711, Minneapolis, Minnesota, June 2006.
- [C16] H. Ishii, " H^{∞} control with limited communication and message losses," Proc. 2006 American Control Conference, pp. 5620–5625, Minneapolis, Minnesota, June 2006.
- [C15] C. Ohyama, H. Ishii, and K. Tsumura, "Performance analysis of control systems under limited data rates," Proc. SICE Annual Conference 2005, pp. 3436–3442, Okayama, Japan, August 2005.
- [C14] T. Hayakawa, H. Ishii, and K. Tsumura, "Adaptive quantized control for linear uncertain discrete-time systems," Proc. 2005 American Control Conference, pp. 4784–4789, Portland, Oregon, June 2005.
- [C13] H. Ishii and T. Başar, "Robust identification over networks," Proc. 2005 American Control Conference, pp. 1233–1238, Portland, Oregon, June 2005.

- [C12] H. Ishii and T. Başar, "An analysis on quantization effects in H^{∞} parameter identification," Proc. IEEE Conference on Control Applications, pp. 468–473, Taipei, Taiwan, September, 2004.
- [C11] H. Ishii, T. Başar, and R. Tempo, "Randomized algorithms for some hybrid systems problems," Proc. 16th International Symposium on Mathematical Theory of Networks and Systems, Leuven, Belgium, July, 2003.
- [C10] H. Ishii, T. Başar, and R. Tempo, "Synthesis of switching rules for switched linear systems through randomized algorithms," Proc. 42nd IEEE Conf. on Decision and Control, pp. 4788– 4793, Maui, Hawaii, December, 2003.
- [C9] H. Ishii, T. Başar, and R. Tempo, "Randomized algorithms for quadratic stability of quantized sampled-data systems," Proc. 2003 American Control Conference, pp. 5046–5051, Denver, Colorado, June, 2003.
- [C8] H. Ishii and T. Başar, "Remote control of LTI systems over networks with state quantization," Proc. 41st IEEE Conference on Decision and Control, pp. 830–835, Las Vegas, Nevada, December, 2002.
- [C7] H. Ishii and B. A. Francis, "Quadratic stabilization of sampled-data systems with quantization," Proc. 15th IFAC World Congress, Barcelona, Spain, July, 2002.
- [C6] H. Ishii and B. A. Francis, "Stabilizing a linear system by switching control and output feedback with dwell time," Proc. 40th IEEE Conf. on Decision and Control, pp. 191–196, Orlando, Florida, December, 2001.
- [C5] H. Ishii and B. A. Francis, "Stabilizing a linear system by switching control with dwell time," *Proc.* 2001 American Control Conference, pp. 1876–1881, Arlington, Virginia, June, 2001.
- [C4] H. Ishii and B. A. Francis, "Control over networks," Proc. 38th Annual Allerton Conference on Communication, Control, and Computing, Monticello, Illinois, October, 2000.
- [C3] H. Ishii and B. A. Francis, "Stabilization with control networks," Proc. International Conference on Control 2000, Cambridge, U.K., September, 2000.
- [C2] H. Ishii, Y. Yamamoto, and B. A. Francis, "Sample-rate conversion via sampled-data H^{∞} control," *Proc. 38th IEEE Conf. on Decision and Control*, pp. 3440–3445, Phoenix, Arizona, December, 1999.
- [C1] H. Ishii and Y. Yamamoto, "Periodic compensation for sampled-data H^{∞} repetitive control," Proc. 37th IEEE Conf. on Decision and Control, pp. 331–336, Tampa, Florida, December, 1998.

Tutorial Articles

- [E1] J. Imura, H. Ishii, and Y. Ebihara, "Reflection on the IFAC WC 2023: From the viewpoint of the organizers," SICE Measurement and Control, 63(7): 392-400, 2024 (in Japanese).
- [E2] J. Imura and H. Ishii, "Towards the IFAC World Congress 2023," SICE Measurement and Control, 60(7): 532–534, 2021 (in Japanese).
- [E3] H. Ishii, "Resilient consensus and synchronization in multi-agent systems: Event-based communication approach," SICE Measurement and Control, 60(1): 53–58, 2021 (in Japanese).
- [E4] H. Asama, H. Ishii, and S. Hara, "Wa (Harmony): Control for solving societal problems and creating societal values," SICE Measurement and Control, 57(2): 69–72, 2018 (in Japanese).
- [E5] H. Ishii, "Towards systems supporting cyber secure cities," SICE Measurement and Control, 57: 101-105, 2018 (in Japanese).

- [E6] H. Ishii, "Cyber-security in multi-agent consensus problems," SICE Measurement and Control, 55: 936–941, 2016 (in Japanese).
- [E7] H. Ishii, "Distributed detection of cyber attacks against power systems," SICE Measurement and Control, 53: 916–921, 2014 (in Japanese).
- [E8] H. Ishii, "Control of multi-agent systems I: Introduction," ISCIE Systems, Control and Information, 57:221–228, 2013 (in Japanese).
- [E9] H. Ishii, "Recent trends in networked multi-agent systems and control," ISCIE Systems, Control and Information, 56: 492–497, 2012 (in Japanese).
- [E10] H. Ishii and R. Tempo, "Distributed probabilistic approach for the PageRank algorithm," SICE Measurement and Control, 50: 975-980, 2011 (in Japanese).
- [E11] H. Ishii, "Quantization in networked control systems," SICE Measurement and Control, 49: 776–782, 2010 (in Japanese).
- [E12] H. Ishii, "Networked control: New directions in control with shared communication," SICE Measurement and Control, 47: 627–636, 2008 (in Japanese).
- [E13] K. Tsumura and H. Ishii, "Design and identification of control systems using quantized signals," SICE Measurement and Control, 44: 70–77, 2005 (in Japanese).
- [E14] H. Ishii, "Control over networks: Bandwidth limitation and quantization," ISCIE Systems, Control and Information, 48: 303-308, 2004 (in Japanese).

Others

- [O1] H. Ishii, "A tribute to Bruce Francis: What I learned from him," *IEEE Control Systems Magazine*, 38(5) 101–102, 2018.
- [O2] A. Cetinkaya and H. Ishii, "Jamming attacks: A major threat to controlling over wireless channels," *IFAC Blog* (blog.ifac-control.org), 2017.

Selected Invited Lectures

- Pleneary Lecture, IFAC Conference on Networked Systems (NecSys), Hong Kong University of Science and Technology, Hong Kong, 2025.
- Workshop on Past and Future in Control of Networked Systems: Insights and Perspectives, 63rd
 IEEE Conference on Decision and Control, Milan, Italy, December 2024.
- Publishing Research in IEEE Journals and Conferences, IEEE Authorship and Open Access Symposium, Tokyo, October 2024.
- Workshop Fujita Fest (in honor of Professor Masayuki Fujita), The University of Tokyo, March 2024.
- Workshop on Emerging Challenges of Network-Enabled Control and Optimization, 62nd IEEE
 Conference on Decision and Control, Singapore, December 2023.
- Workshop on Control, Game, and Learning Theory for Security and Privacy, 62nd IEEE Conference on Decision and Control, Singapore, December 2023.
- Lecture at the IEEE Tokyo Section, Tokyo, October 2023.
- Publishing Research in IEEE Journals and Conferences, IEEE Authorship and Open Access Symposium, Tokyo, October 2023.

- Panel Session, Workshop on Skills and Perspectives for Early Career Development, 61st IEEE
 Conference on Decision and Control, Cancun, Mexico, December 2022.
- Publishing Research in IEEE Journals and Conferences, IEEE Authorship and Open Access Symposium, October 2022.
- IEEE CSS Workshop on Control for Societal-Scale Challenges: Future Directions, Stockholm, Sweden, June 2022.
- Stockholm Workshop on Emerging Topics in Systems and Control, Stockholm, Sweden, June 2022.
- IEEE CSS Workshop on Control for Societal-Scale Challenges: Future Directions (virtual workshop), June 2021.
- I2CNER-IMI Joint International Workshop, Kyushu University, Japan, January 2021.
- Workshop on Learning and Security for Multi-Agent Systems (with Ahmet Cetinkaya), 59th
 IEEE Conference on Decision and Control, Jeju Island, Republic of Korea, December 2020.
- 52nd ISCIE International Symposium on Stochastic Systems Theory and Its Applications (SSS'20),
 Osaka University, Japan, October 2020.
- Workshop on Data-based Methods for Interconnected Systems: Theory and Algorithm, 21st
 World Congress of the International Federation of Automatic Control (IFAC), Berlin, Germany,
 July 2020.
- IEICE Technical Committee on Information Theory, Hiroshima, Japan, January 2020.
- Workshop on Learning, Games and Control, Cyber-Physical Systems (with Ahmet Cetinkaya),
 58th IEEE Conference on Decision and Control, Nice, France, December 2019.
- 3rd Japanese-French Laboratory for Informatics (JFLI) Workshop, Tokyo Institute of Technology, May 2019.
- Workshop on Secure and Resilient Control Systems, 57th IEEE Conference on Decision and Control, Miami, Florida, December 2018.
- IFAC WC 2023 Pre-event Workshop, Nagoya, Japan, November 2018.
- Plenary Lecture, 18th International Conference on Control, Automation and Systems (ICCAS),
 PyeongChang, Korea, October 2018.
- Mini-Workshop on Entropy, Information and Control, Oberwolfach, Germany, March 2018.
- Scaling Heights: A Journey through Roberto Tempo's Research Activity, 56th IEEE Conference on Decision and Control, Melbourne, Australia, December 2017.
- COOPS Workshop, Milano, Italy, November 2017.
- IFAC Special Session, Japan Joint Automatic Control Conference, Tokyo, Japan, November 2017.
- A Tribute in Memory of Roberto Tempo, 20th IFAC World Congress, Toulouse, France, July 2017.
- Workshop on Cyber Threats in Distributed Model Predictive Control and Distributed Estimation, 20th IFAC World Congress, Toulouse, France, July 2017.
- Half a Century of Progress in Teams, Games and Control: A Workshop Dedicated to Tamer Başar's 70th Birthday, Las Vegas, December 2016
- COOPS Workshop, Osaka, Japan, December 2015.

- Workshop on Control Theory: A Mathematical Perspective on Cyber-Physical Systems, Oberwolfach, Germany, February 2015.
- Workshop on Uncertain Dynamical Systems, Amsterdam, The Netherlands, August 2014.
- Semi-Plenary Lecture, The 21st International Symposium on Mathematical Theory of Networks and Systems (MTNS), Groningen, The Netherlands, July 2014.
- Kimura Award Lecture, The 1st SICE Multi-Symposium on Control Systems, Tokyo, March 2014.
- Workshop on Cooperative Distributed Control for Energy Management Systems: New Frameworks and Research Directions, 52nd IEEE Conference on Decision and Control, Florence, Italy, December 2013.
- Collective Agency and Cooperation in Natural and Artificial Systems, University of Stuttgart, Germany, July 2013.
- International Workshop on Modeling, Analysis and Control of Cyber-Physical Systems, Hong Kong University of Science and Technology, China, June 2012.
- Satellite Meeting of the 2nd International Symposium on Innovative Mathematical Modelling, University of Tokyo, Japan, May 2012.
- Symposium on Developments in Control Theory Towards Glocal Control (in honor of Professor Shinji Hara), University of Tokyo, Japan, January 2012.
- Workshop on Uncertain Dynamical Systems, Udine, Italy, August 2011.
- The 4th HYCON2 Ph.D. School on Control of Networked and Large-Scale Systems, University of Trento, Italy, June 2011.
- Symposium on Systems, Control, and Signal Processing (in honor of Professor Yutaka Yamamoto), Kyoto University, Japan, March 2010.
- Pioneer Award Lecture, Symposium of the SICE Control Division, University of Kumamoto, Japan, March 2010.
- International Workshop on Networked Control Systems, Shenzhen, China, December 2009.
- The 3rd WIDE Ph.D. School on Networked Control Systems, University of Siena, Italy, July 2009.
- Workshop on Uncertain Dynamical Systems, Awaji Yumebutai, Hyogo, Japan, July 2008.
- Global COE Workshop on Networked Control Systems, Kyoto University, Japan, March 2008.
- Japan Joint Automatic Control Conference, Kobe, Japan, November 2006 (Tutorial Lecture).
- Japan Joint Automatic Control Conference, Okayama, Japan, November 2003 (Tutorial Lecture).

Lectures at Various Universities

- Nanyang Technological University (2025)
- University of Tokyo (2012, 2017, 2022)
- University of California, Los Angeles (2022)
- Tsinghua University (2022)
- KTH Royal Institute of Technology (2014, 2021)
- New York University (2019)

- Electric Power Research Institute, Knoxville, TN, USA (2018)
- University of Tennessee, TN, USA (2018)
- Iowa State University, IA, USA (2017, 2018)
- Ruhr-Universität Bochum (2018)
- University of Stuttgart (2014, 2018)
- University of Groningen (2018)
- Technische Universität Berlin (2009, 2018)
- Otto-von-Guericke University Magdeburg (2017)
- Politecnico di Torino (2007, 2008, 2014, 2017)
- University of Seville (2016)
- Waseda University (2015)
- SINTEF Trondheim (2015)
- City University of Hong Kong (2015)
- Arizona State University (2015)
- Nagoya University (2015)
- Technical Universität Munich (2015)
- Eindhoven University of Technology (2015)
- Delft University of Technology (2015)
- Zhejiang University (2011)
- Japan Science and Technology Agency (2011)
- The Iron and Steel Institute of Japan (2009)
- Tokyo Institute of Technology (2008, 2009)
- University of Alberta (2008)
- Kobe University (2008)
- Kyushu Institute of Technology (2008)
- Kanazawa University (2007)
- University of Padova (2007)
- Tohoku University (2006)
- Kyoto University (2003)
- Osaka University (2003)

Research Supervision

Postdocs

- Jiaqi Yan (2021–2023, Postdoc at ETH Zurich, Switzerland)
- Shuai Feng (2019–2020, Professor at Nanjing University of Science and Technology, China)
- Ahmet Cetinkaya (2015–2019, Associate Professor at Shibaura Institute of Technology, Tokyo)

- Song Fang (2017–2018)
- Yacine Chakhchoukh (2013–2016, Associate Professor at the University of Idaho, USA)

Doctoral Students

- Zhonghui Tian (Started in October 2024)
- Zhongmin Zheng (Started in October 2024)
- Kousei Sakata (Started in April 2024)
- Qiulin Xu (Started in September 2022)
- Xile Kang (Started in April 2020)
- Rui Kato (March 2024, Postdoc at the Université Claude Bernard Lyon 1, France)
- Naime Ahmadi (March 2023, Postdoc at the Unviersity of Aarhus University, Denmark)
- Liwei Yuan (September 2022, Postdoc at the University of Hunan, China)
- Rajiv Mishra (March 2022, Assistant Professor at National Institute of Technology Rourkela, India)
- Yuan Wang (August 2019, Professor at the University of Hunan, China)
- Seyed Mehran Dibaji (March 2016)
- Kunihisa Okano (September 2013, Associate Professor at Ritsumeikan University)
- Kai Cai (September 2011, Professor at Osaka Metropolitan University)

Master's Thesis Supervision: 47

Undergraduate Thesis Supervision: 24

Visiting Ph.D. Students

- Koen Scheres (Eindhoven University of Technology, the Netherlands, July-October 2023)
- Shuaiting Huang (Zhejiang University, August 2022–February 2023)
- Xin Wang (Zhejiang University, October 2018–October 2019)
- Wicak Ananduta (Technical University of Catalonia, Spain, January, March-May 2018)
- Steffen Linsenmayer (University of Stuttgart, Germany, October 2017–January 2018)
- Bas Vermij (Eindhoven University of Technology, the Netherlands, September-December 2017)
- Shuai Feng (University of Groningen, the Netherlands, April–July 2017)
- Song Fang (City University of Hong Kong, January 2013–April 2013)

Ph.D. External Examiner

- David Unsomst (Opponent, KTH Royal Institute of Technology, Sweden, 2021)
- Jiaqi Yan (Nanyang Technical University, Singapore, 2021)
- Javad Jazaeri (University of Melbourne, Australia, 2019)
- Mengbin Ye (Australian National University, Australia, 2018)
- Andre Teixeira (KTH Royal Institute of Technology, Sweden, 2014)

Teaching Activities

University of Tokyo (since 2024)

- Control Theory 2 (Undergraduate, Fall 2024)
- Control Theory 1 (Undergraduate, Spring 2024)
- Undergraduate Projects (Undergraduate, 2024)

Tokyo Institute of Technology (2008–2024)

- Introduction to Data Science (Graduate, 1st Quarter 2022–2024)
- Continuous Systems and Modeling (Graduate, Spring 2017–2019, 1st Quarter 2020–2023)
- Dynamical Systems (Graduate, Spring 2016)
- Control of Multi-Agent Systems (Graduate, Fall 2011–2013, 2015)
- System Modeling (Graduate, Spring 2010, 2011)
- Dynamical Systems Theory (Graduate, Spring 2008–2011)
- Systems Control (Undergraduate, 4th Quarter 2018–2023)
- Digital Control (Undergraduate, Fall 2008–2013, 2015)