

Tomonori Sadamoto

Curriculum Vitae

Assistant Professor

Department of Mechanical Engineering and Intelligent Systems
The University of Electro-Communications

Education

- Mar. 2015 **Ph.D** in Department of Mechanical and Environmental Informatics, Graduate School of Information Science and Engineering, Tokyo Institute of Technology
Advisor: Prof. Jun-ichi Imura
- Mar. 2011 **M.S** in Department of Mechanical and Control Engineering, Graduate School of Science and Engineering, Tokyo Institute of Technology
Advisor: Prof. Masaki Yamakita
- Mar. 2009 **B.E** in Department of Control and Systems Engineering, Faculty of Engineering, Tokyo Institute of Technology
Advisor: Prof. Masaki Yamakita

Academic Positions

- Nov. 2018 - Present **Assistant Professor** at Department of Mechanical and Intelligent Systems Engineering, The University of Electro-Communications
- Aug. 2016 - Nov. 2018 **Specially Appointed Assistant Professor** at Department of Systems & Control Engineering, Tokyo Institute of Technology, Japan
- Apr. 2016 - Aug. 2016 **Postdoctoral Researcher** at Department of Systems & Control Engineering, Tokyo Institute of Technology, Japan
Advisor: Prof. Jun-ichi Imura
- Jun. 2015 - Mar. 2016 **Postdoctoral Scholar** at KTH Royal Institute of Technology, Sweden
Advisor: Prof. Karl Henrik Johansson and Prof. Henrik Sandberg
- Jun. 2014 - Aug. 2014 **Visiting Student** at KTH Royal Institute of Technology, Sweden
Advisor: Prof. Karl Henrik Johansson and Prof. Henrik Sandberg

Research Experience

- Apr. 2016 - Present **CREST (Energy Management System) Project** at Tokyo Institute of Technology, Japan. *Control of power systems with high penetration of renewable power generation systems (collaboration with Prof. Aranya Chakraborty in North Carolina State University.)*
- Oct. 2017 - Nov. 2017 **Visiting Research** at North Carolina State University, United States. *Retrofit Control of Power Systems with large-scale DER penetration.*

- Jun. 2015 - Mar. 2016 **Postdoctoral Research** at KTH Royal Institute of Technology, Sweden. *Control theory for large-scale network systems (collaboration with Prof. Karl Henrik Johansson, Prof. Henrik Sandberg.)*
- Apr. 2013 - Mar. 2015 **Doctoral Research** at Tokyo Institute of Technology, Japan. *Control theory for large-scale dynamical network systems based on model reduction techniques (advisor: Jun-ichi Imura).*
- May. 2014 - Aug. 2014 **Visiting Research** at KTH Royal Institute of Technology, Sweden. *Low-dimensional controller design for large-scale network systems.*
- Apr. 2013 - Mar. 2014 **CREST Project** at Tokyo Institute of Technology, Japan. *Multiresolutional optimization towards supply-demand-storage balancing under PV prediction uncertainty*
- Apr. 2011 - Mar. 2013 **Researcher** at Research & Development Center in Sumitomo Heavy Industries, Ltd., Japan. *High-precision control of hydraulic drive system & Nonlinear reduced-order modeling of plasticization cylinders*
- Apr. 2009 - Mar. 2011 **Master's Research** at Tokyo Institute of Technology, Japan. *Optimal adaptive control of nonlinear systems based on reinforcement learning techniques (advisor: Prof. Masaki Yamakita.)*
- Apr. 2008 - Mar. 2009 **Undergraduate Research** at Tokyo Institute of Technology, Japan. *Fall avoidance control of a bipedal walking robot based on Q-learning (advisor: Prof. Masaki Yamakita.)*

Business Experience

- Apr. 2011 - Mar. 2013 Research & Development Center in Sumitomo Heavy Industries, Ltd, Japan

Conference/Journal Paper Awards

- 2015 **Best Paper Award** from ISCIE for the paper: Masakazu Koike, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura, *Hierarchical Decentralized Observer Design and Application to Power Networks*, vol.27, no.9, pp.353-363, 2014.
- 2014 **Top 5 of European Control Conference Best Student Paper Award** for the paper: Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura, *Projective State Observers for Large-Scale Linear Systems*, pp.2969-2974, 2014.
- 2014 **Best Paper Award** from ISCIE for the paper: Tomonori Sadamoto, Kenji Kashima, Hiroshi Morita, Hiroyuki Mizuno, *Nonlinear Reduced Order Modeling of Plasticization Cylinders*, vol. 26, no. 5, pp.174-181, 2013.
- 2012 **Research Encouragement Award** at the 41th SICE Conference on Control Theory

Fellowship Awards

- Apr. 2014 - Mar. 2016 **Research Fellowship for Young Scientist** with research grant from Japan Society for the Promotion of Science (JSPS)
- Apr. 2006 - Mar. 2011 **Scholarship** from Kitazawa scholarship foundation

Teaching Experience

- 2016 - 2018 Supervised two graduate students. Their outcomes are two refereed conference papers.
- 2014 - 2015 Supervised one undergraduate student. His outcomes are one refereed conference paper, one domestic conference paper, and one domestic journal article.
- 2013 - 2014 Supervised one graduate student. His outcomes are one refereed conference paper, two domestic conference papers, and total exemption of his student loan.
- 2009 - 2011 Teaching Assistant: Introduction to creative design (Robots design)

List of Publications

I. Journal Articles

1. Mitsuru Arahata, Masaki Inoue, Tomonori Sadamoto, Mitsuki Suzumura: Design of Power Flow to Enhance Damping Performance of Power Systems, Transactions of the Society of Instrument and Control Engineers, 2019, in Press (in Japanese)
2. Hampei Sasahara, Takayuki Ishizaki, Tomonori Sadamoto, Taisuke Masuta, Yuzuru Ueda, Hideharu Sugihara, Jun-ichi Imura: Damping Performance Improvement for PV-Integrated Power Grids via Retrofit Control, Control Engineering Practice, vol. 84, pp. 92-101, 2019
3. Tomonori Sadamoto, Aranya Chakraborty, Takayuki Ishizaki, Jun-ichi Imura: Dynamic Modeling, Stability, and Control of Power Systems with Distributed Energy Resources, Control System Magazine, in Press
4. Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura, Henrik Sandberg, Karl Henrik Johansson: Retrofit Control: Localization of Controller Design and Implementation, Automatica, vol. 95, pp. 336-346, 2018
5. Tomonori Sadamoto, Aranya Chakraborty, Takayuki Ishizaki, Jun-ichi Imura: Retrofit Control of Wind-Integrated Power Systems, IEEE Transactions on Power Systems, vol.33, no.3, pp.2804-2815, 2018 (**JST Press Release**)
6. Hampei Sasahara, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Distributed Design of Local Controllers for Transient Stabilization in Power Systems, Transactions of the Society of Instrument and Control Engineers, vol. 53, no. 11, pp. 608-617, 2017

7. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Average State Observers for Large-Scale Network Systems, IEEE Transactions on Control of Network Systems, vol.4, no.4, pp.761-769, 2017
8. Fumiya Watanabe, Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Average State Kalman Filters for Large-Scale Stochastic Networked Linear Systems, Transactions of the Society of Instrument and Control Engineers, vol.52, no.8, pp.419-427, 2016 (in Japanese)
9. Takayuki Ishizaki, Masakazu Koike, Nacim Ramdani, Yuzuru Ueda, Taisuke Masuta, Takashi Oozeki, Tomonori Sadamoto, Jun-ichi Imura: Interval Quadratic Programming for Day-Ahead Dispatch of Uncertain Predicted Demand, Automatica, vol.64, pp.163-173, 2016
10. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Average State Observers for Large-Scale Networked Linear Systems, Transactions of the Institute of Systems, Control and Information Engineers, vol. 28, no.2, pp.73-83, 2015 (in Japanese)
11. Tomonori Sadamoto, Takayuki Ishizaki, Masakazu Koike, Yuzuru Ueda, Jun-ichi Imura: Spatiotemporally Multiresolutional Optimization Toward Supply-Demand-Storage Balancing Under PV Prediction Uncertainty, IEEE Transactions on Smart Grid, vol.6, no.2, pp.853-865, 2015
12. Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Hierarchical Distributed Stabilization of Power Networks, The European Physical Journal Special Topics on Resilient Power Grids and Extreme Events, vol.223, issue 12, pp.2461-2473, 2014
13. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Low-Dimensional Functional Observer Design of Large-Scale Systems, Transactions of the Society of Instrument and Control Engineers, vol. 50, no. 6, pp.478-486, 2014 (in Japanese)
14. Masakazu Koike, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Hierarchical Decentralized Observer Design and Application to Power Networks, Transactions of the Institute of Systems, Control and Information Engineers, vol.27, no.9, pp.353-363, 2014 (in Japanese) **Best Paper Award**
15. Tomonori Sadamoto, Kenji Kashima, Hiroshi Morita, Hiroyuki Mizuno: Nonlinear Reduced Order Modeling of Plasticization Cylinders Transactions of the Institute of Systems, Control and Information Engineers, vol. 26, no. 5, pp.174-181, 2013 (in Japanese) **Best Paper Award**

II. Referred Conference Papers

1. Shin-ichiro Terao, Tomonori Sadamoto, Jun-ichi Imura: A Study on the Relationship between Power Flow and Characteristic of Power Systems, in Proc. of Grand Renewable Energy, 2018
2. Hampei Sasahara, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Distributed Design of Power System Stabilizers for PV-Integrated Grids via Retrofit Control, in Proc. of Grand Renewable Energy, 2018
3. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Retrofitting Based Power System Stabilizer Design of PV-Integrated Power Systems, in Proc. of IEEE Conference on Control Technology and Applications, pp. 40-45, 2018

4. Yosuke, Shiozaki, Nobuyuki Yamaguchi, Tomonori Sadamoto: Design of a Wide-Area Damping Controller Considering Communication Time Delays, in Proc. of Power Systems Computation Conference, 2018
5. Hampei Sasahara, Takayuki Ishizaki, Masaki Inoue, Tomonori Sadamoto, Jun-ichi Imura: A Characterization of All Retrofit Controllers. Proc. of American Control Conference, pp. 6194 - 6199, 2018
6. Hampei Sasahara, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura, Henrik Sandberg, Karl Henrik Johansson: Glocal Control for Network Systems via Hierarchical State-Space Expansion, in Proc. of IEEE Conference on Decision and Control, pp.6346-6351, 2017
7. Hampei Sasahara, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Distributed Design of Local Controllers for Transient Stabilization in Power Grids, in Proc. of IFAC World Congress, pp.5430-5435, 2017
8. Tomonori Sadamoto, Aranya Chakraborty, Takayuki Ishizaki, Jun-ichi Imura: A Retrofitting-based Supplementary Controller Design for Enhancing Damping Performance of Wind Power Systems, in Proc. of American Control Conference, pp.2755-2760, 2017
9. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura, Henrik Sandberg, Karl Henrik Johansson: Retrofitting State Feedback Control of Networked Nonlinear Systems Based on Hierarchical Expansion, in Proc. of IEEE Conference on Decision and Control, pp.3432-3437, 2016
10. Tomonori Sadamoto, Henrik Sandberg, Bart Besselink, Takayuki Ishizaki, Jun-ichi Imura, Karl Henrik Johansson: Weak Resilience of Networked Control Systems, in Proc. of European Control Conference, pp.977-982, 2016
11. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Hierarchical Distributed Design of Stabilizing Controllers for an Evolving Network System, in Proc. of IEEE Conference on Decision and Control, pp.3337-3342, 2015
12. Shinji Hara, Jun-ichi Imura, Koji Tsumura, Takayuki Ishizaki, Tomonori Sadamoto: Glocal (Global/Local) Control Synthesis for Hierarchical Networked Systems, in Proc. of IEEE Multi-Conference on Systems and Control, pp.107-112, 2015
13. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura, Bart Besselink, Henrik Sandberg, Karl Henrik Johansson: Distributed Design of Locally Stabilizing Controllers for Large-Scale Networked Linear Systems, in Proc. of IEEE Multi-Conference on Systems and Control, pp.1835-1840, 2015
14. Masakazu Koike, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Time-Shifted Request Scheduling for Supply-Demand-Storage Balancing Under Prediction Uncertainty of Photovoltaics, in Proc. of IEEE Multi-Conference on Systems and Control, pp.1534-1539, 2015
15. Masakazu Koike, Yoshihiro Tagawa, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Day-Ahead Scheduling for Model Predictive Power Generation Based on Interval Prediction of Photovoltaics -Generalization to Multiple Generators-, in Proc. of SICE Annual Conference, pp.870-873, 2015

16. Kosuke Uchida, Eiki Arai, Masakazu Koike, Ikuma Muto, Tomonori Sadamoto, Takayuki Ishizaki, Yuzuru Ueda, Jun-ichi Imura: Study on Fair Battery Control in Residential Sector Considering with Grid Operator's Request, in Proc. of SICE Annual Conference 2015, pp.343-346, 2015
17. Fumiya Watanabe, Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Average State Kalman Filters for Large-Scale Stochastic Networked Linear Systems, in Proc. of European Control Conference, pp.2823-2828, 2015
18. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Hierarchical Distributed Control for Networked Linear Systems, in Proc. of IEEE Conference on Decision and Control, pp.2447-2452, 2014
19. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Projective State Observers for Large-Scale Linear Systems, in Proc. of European Control Conference, pp.2969-2974, 2014 (**Top 5 of Best Student Paper Award**)
20. Masakazu Koike, Takayuki Ishizaki, Yuzuru Ueda, Taisuke Masuta, Takashi Oozeki, Nacim Ramdani, Tomonori Sadamoto, Jun-ichi Imura: Planning of Optimal Daily Power Generation Tolerating Prediction Uncertainty of Demand and Photovoltaics, in Proc. of IFAC World Congress, pp.3657-3662, 2014
21. Tomonori Sadamoto, Ikuma Muto, Takayuki Ishizaki, Masakazu Koike, Jun-ichi Imura: Power Supply Scheduling Optimization from a Viewpoint of Spatio-Temporal Aggregation, in Proc. of IFAC World Congress, pp.4571-4577, 2014
22. Takayuki Ishizaki, Masakazu Koike, Tomonori Sadamoto, Jun-ichi Imura: Hierarchical Decentralized Observers for Networked Linear Systems, in Proc. of American Control Conference, pp.5718-5723, 2014
23. Tomonori Sadamoto, Kenji Kashima, Hiroshi Morita, Hiroyuki Mizuno: Nonlinear Reduced Order Modeling of Plasticization Cylinders, in Proc. of American Control Conference, pp.129-134, 2014
24. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Low-Dimensional Functional Observer Design for Linear Systems via Observer Reduction Approach, in Proc. of IEEE Conference on Decision and Control, pp.776-781, 2013
25. Tomonori Sadamoto, Masaki Yamakita: Robust Adaptive Optimal Control for Unknown Dynamical Systems with Discontinuous Cost Function, in Proc. of American Control Conference, pp.1123-1128, 2012
26. Tomonori Sadamoto, Masaki Yamakita: Robust Adaptive Optimal Control for Unknown Dynamical Systems without Re-Learning, in Proc. of IFAC World Congress, pp.2656-2661, 2011
27. Tomonori Sadamoto, Masaki Yamakita: Robust Adaptive Optimal Control for Unknown Dynamical Systems, in Proc. of American Control Conference, pp.4207-4212, 2011

III. Domestic Conference Papers (in Japanese)

1. Mitsuru Arahata, Masaki Inoue, Tomonori Sadamoto, Mitsuki Suzumura: Power Flow Design to Enhance Damping Performance in Power System, The 61st Japan Automatic Control Conference, to Appear, 2018
2. Yusuke Shiozaki, Nobuyuki Yamaguchi, Tomonori Sadamoto: Preliminary Analysis on The Effect of WADC with Communication Delays, IEEJ Annual meeting, 2018
3. Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Power System Stabilizer Design of PV-Integrated Power Systems based on Retrofit Control, The 5th Multi-symposium on Control Systems, 2018
4. Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: A Compensation Principle for Controller Retrofit, The 4th Multi-symposium on Control Systems, 1C3-4, 2017
5. Yuki Otani, Nobuyuki Yamaguchi, Tomonori Sadamoto: Evaluation of power stabilizer by multiple input considering internal phase angle, IEEJ Annual meeting, 2017
6. Yusuke Shiozaki, Nobuyuki Yamaguchi, Tomonori Sadamoto: A Preliminary Study on Influence of Communication Delay with WADC for Power System Stability, IEEJ Annual meeting, 2017
7. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Retrofitting State Feedback Control of Networked Nonlinear Systems Based on Hierarchical Expansion, The 59th Japan Automatic Control Conference, 2016
8. Tomonori Sadamoto, Takayuki Ishizaki, Masakazu Koike, Jun-ichi Imura: Control of Expandable Network Systems from Glocal Point of View, The 2nd Multi-symposium on Control Systems, 2015
9. Fumiya Watanabe, Tomonori Sadamoto, Takayuki Ishizaki, Masakazu Koike, Jun-ichi Imura: Average State Kalman Filters for Large-Scale Stochastic Networked Linear Systems, The 2nd Multi-symposium on Control Systems, 2015
10. Ikuma Muto, Takayuki Ishizaki, Tomonori Sadamoto, Masakazu Koike, Jun-ichi Imura: Supply-Demand-Storage Balancing Based on Moving Average Utility Power Requests to Demand Side, The 57th Japan Automatic Control Conference, pp.955-962, 2014
11. Masakazu Koike, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Monotonicity Analysis of Interval Quadratic Programming with Application to Regulating Capacity Minimization Problem of Thermal Power Plants, The 1st Multi-symposium on Control Systems, 2014
12. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Projective State Observers for Large-Scale Linear Systems, The 1st Multi-symposium on Control Systems, 2014
13. Tomonori Sadamoto, Takayuki Ishizaki, Masakazu Koike, Ikuma Muto, Jun-ichi Imura: Novel Framework of Power Supply Scheduling from a Viewpoint of Spatio-Temporal Aggregation, The 1st Multi-symposium on Control Systems, 2014
14. Masakazu Koike, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Analysis of Parameter-Dependent Quadratic Programming and Its Application to Power Systems, The 59th Japan Automatic Control Conference, pp.178-183, 2013

15. Tomonori Sadamoto, Kenji Kashima, Hiroyuki Mizuno, Hiroshi Morita: Nonlinear Reduced Order Modeling of Plasticization Cylinders, The 41th SICE Conference on Control Theory, 2012 (**Research Encouragement Award**)
16. Tomonori Sadamoto, Masaki Yamakita: Robust Adaptive Optimal Control for Unknown Dynamical Systems with Discontinuous Cost Function, The 55th Annual Conference of the Institute of Systems, Control and Information Engineers, 2011
17. Tomonori Sadamoto, Masaki Yamakita: Robust Adaptive Optimal Control for Unknown Dynamical Systems without Re-Learning, The 11th Symposium on Adaptive Control, 2011
18. Tomonori Sadamoto, Masaki Yamakita: Robust Adaptive Optimal Control for Unknown Dynamical Systems, The 39th SICE Conference on Control Theory, 2010

IV. Seminars, Workshops, and Symposia

1. Tomonori Sadamoto: Preconditioned Off-Policy Iteration based on Dimensionality Reduction Techniques, Kirishima International Hotel, 2018
2. Tomonori Sadamoto: Modeling and Control of Smart Grids, Plenary Talk on Workshop of Control Technology for Development of Smart Society, Keio University, 2018
3. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Retrofit Control of Power Systems, The fifth CRREST HARPS meeting, 2018
4. Tomonori Sadamoto, Takayuki Ishizaki, Hampei Sasahara, Jun-ichi Imura: Retrofit Control of PV-Integrated Power Systems, JST-NSF-DFG-RCN Workshop on Distributed Energy Management Systems, 2017
5. Tomonori Sadamoto: Instruction to HARPS Simulator, Seminar at the University of Tokyo, 2016
6. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Retrofitting State Feedback Control of Networked Nonlinear Systems Based on Hierarchical Expansion, International Workshop at Waseda University, 2016
7. Tomonori Sadamoto: Retrofitting State Feedback Control of Networked Nonlinear Systems Based on Hierarchical Expansion, Seminar at KTH Royal Institute of Technology, 2016
8. Tomonori Sadamoto: Issues on reduced-order time-varying Kalman Filter Design, Seminar at KTH Royal Institute of Technology, 2016
9. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Hierarchical Subsystem Clustering for Distributed Control of Networked Systems, SIAM Conference on Applications of Dynamical Systems, MS41, 2015
10. Masakazu Koike, Takayuki Ishizaki, Tomonori Sadamoto, Jun-ichi Imura: Optimal Load Dispatch Towards Supply-Demand-Storage Balancing under Prediction Uncertainty of Photovoltaic Power Generation, The 6th International Conference on Integration of Renewable and Distributed Energy Resources (IREN2014), P8-8, 2014

11. Tomonori Sadamoto: Hierarchical Distributed Control for Networked Linear Systems, Seminar at the University of Tokyo, 2014
12. Tomonori Sadamoto: Hierarchical Distributed Control for Networked Linear Systems, Seminar at KTH Royal Institute of Technology, 2014
13. Tomonori Sadamoto: Hierarchical Supply-Demand Balancing based on PV Prediction Uncertainty, The 1st Symposium on Control Theory, 2013

V. Book Chapters

1. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Distributed Design of Smart Grids for Large-Scalability and Evolution, Springer Verlag, Accepted
2. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Plug-in-type control for ensuring the stable power supply of wind-integrated power systems, OHM, Ohmsha, pp.36-39, 2018
3. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Kalman Filters for Smart Grid, Journal of the Society of Instrument and Control Engineers, vo.56, no.9, pp. 687-690, 2017 (in Japanese)
4. Tomonori Sadamoto, Takayuki Ishizaki, Jun-ichi Imura: Plug-in-type control for ensuring the stable power supply of wind-integrated power systems, JST Press Release, 2017
5. Masaki Yamakita, Tomonori Sadamoto: Particle Type Kalman Filters and Its Applications Systems, Control and Information Engineers, vol.50, no.11, pp.963-968, 2011 (in Japanese)

VI. Patents

1. Tomonori Sadamoto: Feedback Controller Design Devises, Feedback Controllers, and Feedback Controller Design Methods, Patent No. 2013-206408
2. Tomonori Sadamoto: Feedback Controller Design Devises, Feedback Controllers, and Feedback Controller Design Methods, Patent No. 2013-254396.
3. Tomonori Sadamoto: Injection Molding Machines, Patent No. 2014-046488.
4. Tomonori Sadamoto, Hiroyuki Mizuno: Injection Molding Machines, Patent No. 2014-046489.
5. Hiroshi Morita, Tomonori Sadamoto: Injection Molding Machines, Patent No. 2013-224017.