# Masaki Ogura

# Curriculum Vitae Thursday 10<sup>th</sup> November, 2022

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#### AREAS OF EXPERTISE

Control theory, network science, optimization, stochastic processes, biological physics

#### **EDUCATION**

- Ph.D. in Mathematics, Texas Tech University. 2014
- M.Sc. in Informatics, Kyoto University. 2009
- B.Eng., Kyoto University. 2007

#### PROFESSIONAL APPOINTMENTS

- Associate Professor, Department of Bioinformatic Engineering, Graduate School of Information Science and Technology, Osaka University, Japan. Nov 2019 – present
- Assistant Professor, Graduate School of Information Science, Nara Institute of Science and Technology, Japan. Mar 2017 Oct 2019
- Postdoctoral Researcher, Department of Electrical and Systems Engineering, University of Pennsylvania, Oct 2014 Feb 2017

#### **SHORT TERM VISITS**

- Department of Mechanical Engineering, University of Hong Kong. 2018, 2019
- ICTEAM Institute, Université catholique de Louvain, Belgium. 2013

## SELECTED AWARDS AND HONORS

- Runner-up of the 2019 Best Paper Award, IEEE Transactions on Network Science and Engineering.
   2019
- Summer Dissertation/Thesis Research Award, Texas Tech University. 2014
- Cash Family Endowed Fellowship, Texas Tech University. 2013
- Best Paper Award, The Society of Instrument and Control Engineers. 2012

#### **PUBLICATIONS**

### **Book Chapters**

- [1] V. M. Preciado, M. Zargham, C. Nowzari, S. Han, M. Ogura, A. Jadbabaie, and G. J. Pappas, "Bio-inspired Framework for Allocation of Protection Resources in Cyber-Physical Networks," in *Principles of Cyber-Physical Systems*. Cambridge University Press, 2020, pp. 293–322.
- [2] M. Ogura and V. M. Preciado, "Optimal Containment of Epidemics in Temporal and Adaptive Networks," in *Temporal Networks Epidemiology*. Springer, 2017, pp. 241–266.
- [3] M. Ogura and C. F. Martin, "Linear Switching Systems and Random Products of Matrices," in *Mathematical System Theory Festschrift in Honor of Uwe Helmke on the Occasion of his Sixtieth Birthday*, K. Hüper and J. Trumpf, Eds. CreateSpace, 2013, pp. 291–300.

### **Refereed Journal Articles**

- [1] B. Zhu, J. Lam, and M. Ogura, "Log-log convexity of an optimal control problem for positive linear systems," *Automatica*, vol. 146, p. 110553, 2022.
- [2] C. Zhao, K. Sakurama, and M. Ogura, "Optimization of buffer networks via DC programming," *IEEE Transactions on Circuits and Systems II: Express Briefs* (accepted for publication), 2022.
- [3] A. Fujioka, M. Ogura, and N. Wakamiya, "Shepherding heterogeneous flock with model-based discrimination," *Advanced Robotics* (accepted for publication), 2022.
- [4] M. Nagahara, M. Ogura, and Y. Yamamoto, "Iterative greedy LMI for sparse control," *IEEE Control Systems Letters*, vol. 6, pp. 986–991, 2022.
- [5] M. Kumazaki, M. Ogura, and T. Tachibana, "Dynamic service chain construction based on model predictive control in NFV environments," *IEICE Transactions on Communications*, vol. E105-B, no. 4, 2022.
- [6] R. Himo, M. Ogura, and N. Wakamiya, "Iterative algorithm for shepherding unresponsive sheep," *Mathematical Biosciences and Engineering*, vol. 19, no. 4, pp. 3509–3525, 2022.
- [7] M. Kishida\* and M. Ogura\*, "Temporal deep unfolding for constrained nonlinear stochastic optimal controls," *IET Control Theory & Applications*, vol. 16, no. 2, pp. 139–150, 2022. (\*equal contribution)
- [8] T. Kimura and M. Ogura, "Distributed 3D deployment of aerial base stations for on-demand communication," *IEEE Transactions on Wireless Communications*, vol. 20, no. 12, pp. 7728–7742, 2021.
- [9] K. Hashimoto, Y. Onoue, M. Ogura, and T. Ushio, "Event-triggered control for mitigating SIS spreading processes," *Annual Reviews in Control*, vol. 52, pp. 479–494, 2021.
- [10] K. Sugimoto, T. Aihara, M. Ogura, and K. Hanada, "Gain scheduling for sampled-data state estimation over lossy networks," *Transactions of the Institute of Systems, Control and Information Engineers*, vol. 34, no. 11, pp. 287–293, 2021.

- [11] M. Nagahara, B. Krishnamachari, M. Ogura, A. Ortega, Y. Tanaka, Y. Ushifusa, and T. W. Valente, "Control, intervention, and behavioral economics over human social networks against COVID-19," *Advanced Robotics*, vol. 35, no. 11, pp. 733–739, 2021.
- [12] C. Zhao, M. Ogura, M. Kishida, and A. Yassine, "Optimal resource allocation for dynamic product development process via convex optimization," *Research in Engineering Design*, vol. 32, no. 1, pp. 71–90, 2021.
- [13] X. Chen, M. Ogura, and V. M. Preciado, "SDP-Based moment closure for epidemic processes on networks," *IEEE Transactions on Network Science and Engineering*, vol. 7, no. 4, pp. 2850–2865, 2020.
- [14] M. Ogura, M. Kishida, and J. Lam, "Geometric programming for optimal positive linear systems," *IEEE Transactions on Automatic Control*, vol. 65, no. 11, pp. 4648–4663, 2020.
- [15] W. Mei, C. Zhao, M. Ogura, and K. Sugimoto, "Mixed  $H_2/H_\infty$  control of delayed Markov jump linear systems," *IET Control Theory Applications*, vol. 14, no. 15, pp. 2076–2083, 2020.
- [16] C. Zhao, M. Ogura, and K. Sugimoto, "Stability optimization of positive semi-Markov jump linear systems via convex optimization," *SICE Journal of Control, Measurement, and System Integration*, vol. 13, no. 5, pp. 233–239, 2020.
- [17] M. Kishida\*, M. Ogura\*, Y. Yoshida, and T. Wadayama, "Deep learning-based average consensus," *IEEE Access*, vol. 8, pp. 142 404 142 412, 2020. (\*equal contribution)
- [18] X. Chen, M. Ogura, and V. M. Preciado, "Bounds on the spectral radius of digraphs from motif counts," *SIAM Journal on Matrix Analysis and Applications*, vol. 41, no. 2, pp. 525–553, 2020.
- [19] N. Masuda, V. M. Preciado, and M. Ogura, "Analysis of the susceptible-infected-susceptible epidemic dynamics in networks via the non-backtracking matrix," *IMA Journal of Applied Mathematics*, vol. 85, no. 2, pp. 214–230, 2020.
- [20] M. Ogura, W. Mei, and K. Sugimoto, "Synergistic effects in networked epidemic spreading dynamics," *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 67, no. 3, pp. 496–500, 2020.
- [21] M. Ogura and V. M. Preciado, "Stability of SIS spreading processes in networks with non-Markovian transmission and recovery," *IEEE Transactions on Control of Network Systems*, vol. 7, no. 1, pp. 349–359, 2020.
- [22] Y. Abe, M. Ogura, H. Tsuji, A. Miura, and S. Adachi, "Resource and network management framework for a large-scale satellite communications system," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E103, no. 2, pp. 492–501, 2020. **Telecom System Technology Student Award**, Telecommunication Advancement Foundation.
- [23] M. Ogura, J. Harada, M. Kishida, and A. Yassine, "Resource optimization of product development projects with time-varying dependency structure," *Research in Engineering Design*, vol. 30, no. 3, pp. 435–452, 2019.
- [24] M. Ogura, V. M. Preciado, and N. Masuda, "Optimal containment of epidemics over temporal activity-driven networks," *SIAM Journal on Applied Mathematics*, vol. 79, no. 3, pp. 986–1006, 2019.

- [25] W. Mei and M. Ogura, "Kronecker weights for instability analysis of Markov jump linear systems," *IET Control Theory & Applications*, vol. 13, no. 3, pp. 360–366, 2019.
- [26] M. Wakaiki, M. Ogura, and J. P. Hespanha, "LQ-optimal sampled-data control under stochastic delays: gridding approach for stabilizability and detectability," *SIAM Journal on Control and Optimization*, vol. 56, no. 4, pp. 2634–2661, 2018.
- [27] M. Ogura, A. Cetinkaya, T. Hayakawa, and V. M. Preciado, "State feedback control of Markov jump linear systems with hidden-Markov mode observation," *Automatica*, vol. 89, pp. 65–72, 2018.
- [28] M. Ogura and V. M. Preciado, "Second-order moment-closure for tighter epidemic thresholds," *Systems & Control Letters*, vol. 113, pp. 59–64, 2018.
- [29] M. Ogura and V. M. Preciado, "Optimal design of switched networks of positive linear systems via geometric programming," *IEEE Transactions on Control of Network Systems*, vol. 4, no. 2, pp. 213–222, 2017.
- [30] M. Ogura, M. Wakaiki, H. Rubin, and V. M. Preciado, "Delayed bet-hedging resilience strategies under environmental fluctuations," *Physical Review E*, vol. 95, p. 052404, 2017.
- [31] M. Ogura, V. M. Preciado, and R. M. Jungers, "Efficient method for computing lower bounds on the *p*-radius of switched linear systems," *Systems & Control Letters*, vol. 94, pp. 159–164, 2016.
- [32] M. Ogura and V. M. Preciado, "Epidemic processes over adaptive state-dependent networks," *Physical Review E*, vol. 93, p. 062316, 2016.
- [33] M. Ogura and V. M. Preciado, "Stability of Markov regenerative switched linear systems," *Automatica*, vol. 69, pp. 169–175, 2016.
- [34] M. Ogura and V. M. Preciado, "Stability of spreading processes over time-varying large-scale networks," *IEEE Transactions on Network Science and Engineering*, vol. 3, no. 1, pp. 44–57, 2016. Runner-up of **2019 IEEE TNSE Best Paper Award**.
- [35] M. Ogura and C. F. Martin, "Stability analysis of linear systems subject to regenerative switchings," *Systems & Control Letters*, vol. 75, pp. 94–100, 2015.
- [36] M. Ogura and C. F. Martin, "A limit formula for joint spectral radius with *p*-radius of probability distributions," *Linear Algebra and its Applications*, vol. 458, pp. 605–625, 2014.
- [37] M. Ogura and C. F. Martin, "Stability analysis of positive semi-Markovian jump linear systems with state resets," *SIAM Journal on Control and Optimization*, vol. 52, pp. 1809–1831, 2014.
- [38] M. Ogura and C. F. Martin, "Generalized joint spectral radius and stability of switching systems," *Linear Algebra and its Applications*, vol. 439, no. 8, pp. 2222–2239, 2013.
- [39] M. Ogura and Y. Yamamoto, "Dissipativity of pseudorational behaviors," *IEEE Transactions on Automatic Control*, vol. 58, no. 4, pp. 823–833, 2013.
- [40] M. Nagahara, M. Ogura, and Y. Yamamoto, " $H^{\infty}$  design of periodically nonuniform interpolation and decimation for non-band-limited signals," *SICE Journal of Control, Measurement, and System Integration*, vol. 4, no. 5, pp. 341–348, 2011. **2012 SICE Best Paper Award**.

#### **Refereed Conference Proceedings**

- [1] A. Li, M. Ogura, Y. Tsunoda, and N. Wakamiya, "Proposal of farthest-agent targeting algorithm with indirect chasing," in *SICE Annual Conference 2022*, 2022, pp. 92–94.
- [2] A. Fujioka, M. Ogura, and N. Wakamiya, "Shepherding algorithm based on variant agent detection for heterogeneous flock," in *SICE Annual Conference 2022*, 2022, pp. 87–91.
- [3] Y. Deng, M. Ogura, A. Li, and N. Wakamiya, "Shepherding control for separating a single agent from a swarm," in 1st IFAC Workshop on Control of Complex Systems (accepted), 2022.
- [4] M. Ogura, K. Kobayashi, and K. Sugimoto, "Static output feedback synthesis of time-delay linear systems via deep unfolding," in 17th IFAC Workshop on Time Delay Systems, 2022, pp. 214–215.
- [5] M. Kishida and M. Ogura, "Temporal deep unfolding for nonlinear stochastic optimal control," in 7th International Conference on Advances in Control & Optimization of Dynamical Systems, 2022, pp. 908–913.
- [6] M. Ogura and N. Wakamiya, "Model predictive control of fish schooling model with reduced-order prediction model," in *60th IEEE Conference on Decision and Control*, 2021, pp. 4115–4120.
- [7] M. Kishida and M. Ogura, "Temporal deep unfolding for nonlinear maximum hands-off control," in *SICE Annual Conference 2021*, 2021, pp. 1007–1010.
- [8] K. Kobayashi, M. Ogura, T. Kobayashi, and K. Sugimoto, "Deep unfolding-based output feedback control design for linear systems with input saturation," in *SICE International Symposium on Control Systems* 2021, 2021, pp. 33–39.
- [9] M. Kumazaki, M. Ogura, and T. Tachibana, "Service chain construction with efficient VNF sharing based on model predictive control," in *2020 International Conference on Emerging Technologies for Communications*, 2020, pp. M1–5.
- [10] K. Sugimoto, M. Ogura, K. Hanada, and T. Aihara, "Sampled-data suboptimal state estimation over lossy networks," in 52nd ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2020.
- [11] C. Zhao, M. Ogura, and K. Sugimoto, "Finite-time control of discrete-time positive linear systems via convex optimization," in *SICE Annual Conference 2020*, 2020, pp. 1230–1235.
- [12] Y. Abe, M. Ogura, H. Tsuji, A. Miura, and S. Adachi, "Resource and network management for satellite communications systems: a chance-constrained approach," in *21th IFAC World Congress*, 2020, pp. 3304–3309.
- [13] T. Kimura and M. Ogura, "Distributed collaborative 3D-deployment of UAV base stations for on-demand coverage," in *IEEE INFOCOM 2020*. IEEE, 2020, pp. 1748–1757. Acceptance rate 19.8 percent.
- [14] M. Aida, C. Takano, and M. Ogura, "On the fundamental equation of user dynamics and the structure of online social networks," in *NetSci-X 2020*, 2020, pp. 155–170.
- [15] M. Ogura, M. Kishida, K. Hayashi, and J. Lam, "Geometric programming for optimizing stability of distributed power control algorithms," in *SICE Annual Conference 2019*, 2019, pp. 679–680.

- [16] M. Ogura, W. Mei, and K. Sugimoto, "Upper-bounding dynamics on networked synergistic susceptible-infected-susceptible model," in *SICE Annual Conference 2019*, 2019, pp. 1430–1431.
- [17] M. Ogura, M. Kishida, and A. Yassine, "Optimizing product development projects under asynchronous and aperiodic system-local interactions," in *21st International DSM Conference*, 2019, pp. 97–106.
- [18] M. Ogura, M. Kishida, K. Hayashi, and J. Lam, "Resource allocation for robust stabilization of Foschini-Miljanic Algorithm," in *2019 American Control Conference*, 2019, pp. 4030–4035.
- [19] M. Kumazaki, M. Ogura, and T. Tachibana, "VNF management with model predictive control for multiple service chains," in *IEEE International Conference on Consumer Electronics Taiwan*, 2019.
- [20] T. Tadenuma, M. Ogura, and K. Sugimoto, "Sampled-data state observation over lossy networks under round-robin scheduling," in *5th IFAC Conference on Analysis and Control of Chaotic Systems*, 2018, pp. 197–202. **Young Author Award Finalist**.
- [21] W. Mei and M. Ogura, "Instability analysis of Markov jump linear systems by spectral optimization," in *SICE Annual Conference 2018*, 2018, pp. 419–422.
- [22] M. Ogura, J. Wan, and S. Kasahara, "Model predictive control for energy-efficient operation of data centers with cold aisle containments," in *6th IFAC Conference on Nonlinear Model Predictive Control*, 2018, pp. 241–246.
- [23] M. Ogura and J. Harada, "Resource allocation for containing epidemics from temporal network data," in 23rd International Symposium on Mathematical Theory of Networks and Systems, 2018, pp. 537–542.
- [24] M. Ogura, J. Tagawa, and N. Masuda, "Distributed agreement on activity driven networks," in *2018 American Control Conference*, 2018, pp. 4147–4152.
- [25] X. Chen, M. Ogura, K. R. Ghusinga, A. Singh, and V. M. Preciado, "Semidefinite bounds for moment dynamics: Application to epidemics on networks," in 56th IEEE Conference on Decision and Control, 2017, pp. 2448–2454.
- [26] M. Wakaiki, M. Ogura, and J. P. Hespanha, "Linear quadratic control for sampled-data systems with stochastic delays," in *2017 American Control Conference*, 2017, pp. 1978–1983.
- [27] M. Ogura and V. M. Preciado, "Katz centrality of Markovian temporal networks: analysis and optimization," in 2017 American Control Conference, 2017, pp. 5001–5006.
- [28] M. Ogura and V. M. Preciado, "Efficient containment of exact SIR Markovian processes on networks," in *55th IEEE Conference on Decision and Control*, 2016, pp. 967–972.
- [29] M. Ogura, M. Wakaiki, and V. M. Preciado, "Dynamic analysis of bet-hedging strategies as a protection mechanism against environmental fluctuations," in *55th IEEE Conference on Decision and Control*, 2016, pp. 4178–4183.
- [30] M. Wakaiki, M. Ogura, and J. P. Hespanha, "Robust stability under asynchronous sensing and control," in *55th IEEE Conference on Decision and Control*, 2016, pp. 5962–5967.

- [31] M. Ogura, A. Cetinkaya, T. Hayakawa, and V. M. Preciado, "Efficient criteria for stability of large-scale networked control systems," in 6th IFAC Workshop on Distributed Estimation and Control in Networked Systems, 2016, pp. 13–18.
- [32] V. M. Preciado and M. Ogura, "Structural analysis of spreading processes from ego-nets," in 6th IFAC Workshop on Distributed Estimation and Control in Networked Systems, 2016, pp. 345–350.
- [33] M. Ogura, M. Wakaiki, J. P. Hespanha, and V. M. Preciado, "L<sup>2</sup>-gain analysis of regenerative switched linear systems under sampled-data state-feedback control," in *2016 American Control Conference*, 2016, pp. 709–714.
- [34] M. Ogura and V. M. Preciado, "Optimal design of networks of positive linear systems under stochastic uncertainty," in *2016 American Control Conference*, 2016, pp. 2930–2935.
- [35] M. Ogura and V. M. Preciado, "Cost-optimal switching protection strategy in adaptive networks," in *54th IEEE Conference on Decision and Control*, 2015, pp. 3574–3579.
- [36] M. Ogura and V. M. Preciado, "Spreading processes over socio-technical networks with phase-type transmissions," in *54th IEEE Conference on Decision and Control*, 2015, pp. 3548–3553.
- [37] C. Nowzari, M. Ogura, V. M. Preciado, and G. J. Pappas, "A general class of spreading processes with non-Markovian dynamics," in *54th IEEE Conference on Decision and Control*, 2015, pp. 5073–5078.
- [38] M. Ogura, M. Nagahara, and V. M. Preciado, "L<sup>1</sup>-optimal disturbance rejection for disease spread over time-varying networks," in *SWARM 2015: The First International Symposium on Swarm Behavior and Bio-Inspired Robotics*, 2015, pp. 377–378.
- [39] C. Nowzari, M. Ogura, V. M. Preciado, and G. J. Pappas, "Optimal resource allocation for containing epidemics on time-varying networks," in 49th Asilomar Conference on Signals, Systems and Computers, 2015, pp. 1333–1337.
- [40] M. Ogura, A. Cetinkaya, and V. M. Preciado, "State-feedback stabilization of Markov jump linear systems with randomly observed markov states," in *2015 American Control Conference*, 2015, pp. 1764–1769.
- [41] M. Ogura and V. M. Preciado, "Disease spread over randomly switched large-scale networks," in *2015 American Control Conference*, 2015, pp. 1782–1787.
- [42] M. Ogura and R. M. Jungers, "Efficiently computable lower bounds for the *p*-radius of switching linear systems," in *53rd IEEE Conference on Decision and Control*, 2014, pp. 5463–5468.
- [43] M. Ogura and C. F. Martin, "Mean stability of continuous-time semi-Markov jump linear positive systems," in *2014 American Control Conference*, 2014, pp. 3261–3266.
- [44] M. Ogura and C. F. Martin, "On the mean stability of a class of switched linear systems," in *52nd IEEE Conference on Decision and Control*, 2013, pp. 97–102.
- [45] M. Ogura and C. F. Martin, "Stability of switching systems and generalized joint spectral radius," in *2013 European Control Conference*, 2013, pp. 3185–3190.
- [46] M. Ogura and C. F. Martin, "Stochastic properties of switched Riccati differential equations," in 51st IEEE Conference on Decision and Control, 2012, pp. 1319–1324.

- [47] M. Ogura, Y. Yamamoto, and J. C. Willems, "On the dissipativity of pseudorational behaviors," in 49th IEEE Conference on Decision and Control, 2010, pp. 1737–1742.
- [48] M. Ogura and Y. Yamamoto, "Dissipativity of pseudorational behaviors," in 19th International Symposium on Mathematical Theory of Networks and Systems, 2010, pp. 849–853.
- [49] Y. Yamamoto, J. C. Willems, and M. Ogura, "Pseudorational behaviors and Bezoutians," in 19th International Symposium on Mathematical Theory of Networks and Systems, 2010, pp. 1917–1921.
- [50] M. Ogura and Y. Yamamoto, "Hankel norm computation for pseudorational transfer functions," in 48th IEEE Conference on Decision and Control held jointly with 2009 28th Chinese Control Conference, 2009, pp. 5502–5507.
- [51] M. Nagahara, M. Ogura, and Y. Yamamoto, "A novel approach to repetitive control via sampled-data  $H^{\infty}$  filters," in 7th Asian Control Conference, 2009, pp. 160–165.
- [52] M. Nagahara, M. Ogura, and Y. Yamamoto, "Interpolation of nonuniformly decimated signals via sampled-data  $H^{\infty}$  optimization," in SICE Annual Conference 2008, 2008, pp. 1151–1154.
- [53] M. Ogura, M. Nagahara, and Y. Yamamoto, "Optimal wavelet expansion via sampled-data  $H^{\infty}$  control theory," in SICE Annual Conference 2007, 2007, pp. 1422–1426.

#### **Invited and Hourly Talks**

- [1] "When deep unfolding meets control engineering," 37th International Technical Conference on Circuits \Systems, Computers and Communications, 2022.
- [2] "Optimization of positive linear systems via geometric programming," *Guandong University of Technology*, 2019.
- [3] "Optimization of positive linear systems via geometric programming," Shenzhen University, 2019.
- [4] "Synthesis of positive linear systems by geometric programming," University of Hong Kong, 2019.
- [5] "Networked epidemic spreading: modeling, analysis, and control," *National Institutite of Informatics*, 2018.
- [6] "Network epidemiology and control theory," University of Hong Kong, 2018.
- [7] "Analysis and control of spreading processes over complex networks," *Washington State University*, 2017.
- [8] "Analysis and control of spreading processes over complex networks," *Tokyo University of Agriculture and Technology*, 2016.
- [9] "Stability analysis of switched linear systems with non-traditional switching signals," in *GRASP* special seminar, University of Pennsylvania, 2014.
- [10] "Mean stability of switched linear systems," Université Catholique de Louvain, 2013.

#### TEACHING ACTIVITIES

#### **Osaka University**

- Basic Theory of Bio-networks (2021-)
- Informatics for Engineering Science 1 (2020-)
- Fundamentals of Information and Computer Sciences (2020-)
- Bio-network Engineering (2020-)

# Nara Institute of Science and Technology

- Machine Learning and Intelligent Control (Spring 2019)
- Advanced Intelligent System Control (Spring 2017, 2018)

## University of Pennsylvania

#### Co-lecturer:

• Convex Optimization in Systems and Control (Fall 2015)

## **Texas Tech University**

**Graduate Part-Time Instructor:** 

- Calculus II (Summer 2014, Spring 2014, Spring 2013)
- Calculus I (Summer 2013, Fall 2012)
- Trigonometry (Fall 2011)
- College Algebra (Fall 2013, Spring 2012)

#### Teaching Assistant:

- Advanced Calculus (Summer 2012)
- Linear Algebra (Summer 2012)
- Higher Mathematics for Engineers and Scientists I (Summer 2011)

## **Kyoto School of Computer Science**

#### Lecturer:

- Control Engineering (Fall 2009, Fall 2008)
- Electrical Circuits (Spring 2008)
- Data Structures (Spring 2008)
- Numerical Analysis (Spring 2010, Spring 2009)

## **Kyoto University**

Teaching Assistant:

• Modern Control Theory (Fall 2009, Fall 2008)

#### PROFESSIONAL SERVICE

- Associate Editor, Franklin Open, 2022-.
- Registration Chair, 10th IFAC Symposium on Robust Control Design, 2022.
- Program Committee member, International Conference on Complex Networks and their Applications, 2020—.
- Associate Editor, Journal of The Franklin Institute, 2020-.
- Local Arrangements Vice Chair, SICE Annual Conference 2018.

 Associate Editor, The 5th IFAC Workshop on Distributed Estimation and Control in Networked Systems, 2015.

#### Journal Reviewer

Advanced Robotics; Annual Reviews in Control; Automatica; Applied Mathematics and Computation; Asian Journal of Control; Computer Communications; Discrete Mathematics; European Journal of Control European Physical Journal B; Foundations of Computational Mathematics; IEEE Access; IEEE/ACM Transactions on Computational Biology and Bioinformatics; IEEE Circuits and Systems Magazine; IEEE Control Systems Letters; IEEE Intelligent Systems; IEEE Transactions on Automatic Control; IEEE Transactions on Big Data; IEEE Transactions on Circuits and Systems; IEEE Transactions on Control of Network Systems; IEEE Transactions on Fuzzy Systems; IEEE Transactions on Signal Processing; IEEE Transactions on Systems, Man and Cybernetics: Systems; IEEE Transactions on Network Science and Engineering; IEEE Transactions on Neural Networks and Learning Systems; IET Control Theory & Applications; International Journal of Robust and Nonlinear Control; Journal of Biological Dynamics; Journal of the Franklin Institute; Mathematics of Control, Signals, and Systems; Neurocomputing; Nonlinear Analysis: Hybrid Systems; Operations Research and Decisions; Physica A; Physics Letters A; SIAM Journal on Control and Optimization; SICE Journal of Control, Measurement, and System Integration; Stochastics and Dynamics; Systems and Control Letters; Research in Engineering Design;

Masaki Ogura, November 2022