

Masaki Ogura  
Curriculum Vitae  
Friday 21<sup>st</sup> February, 2020

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Graduate School of Information Science and Technology  
Osaka University  
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**AREAS OF EXPERTISE**

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

**EDUCATION**

Aug 2014	Ph.D. in Mathematics, <i>Texas Tech University</i>
Mar 2009	M.Sc. in Informatics, <i>Kyoto University</i>
Mar 2007	B.Eng., <i>Kyoto University</i>

**PROFESSIONAL APPOINTMENTS**

Nov 2019 –	<i>Associate Professor</i> Department of Bioinformatic Engineering, Graduate School of Information Science and Technology, Osaka University, Japan
Apr 2018 – Oct 2019	<i>Assistant Professor</i> Graduate School of Science and Technology, Division of Information Science Nara Institute of Science and Technology, Japan
Mar 2017 – Mar 2018	<i>Assistant Professor</i> Graduate School of Information Science Nara Institute of Science and Technology, Japan
Nov 2014 – Feb 2017	<i>Postdoctoral Researcher</i> Department of Electrical and Systems Engineering University of Pennsylvania

**SHORT TERM VISITS**

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

## SELECTED AWARDS AND HONORS

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

## PUBLICATIONS

### Book Chapters

- [1] M. Ogura and V. M. Preciado, “Optimal Containment of Epidemics in Temporal and Adaptive Networks,” in *Temporal Networks Epidemiology*. Springer, 2017, pp. 241–266.
- [2] 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, in press, 2015.
- [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. Høper and J. Trumpf, Eds. CreateSpace, 2013, pp. 291–300.

### Refereed Journal Articles

- [1] 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* (accepted for publication), 2020.
- [2] M. Ogura, M. Kishida, and J. Lam, “Geometric programming for optimal positive linear systems,” *IEEE Transactions on Automatic Control* (accepted for publication), 2020.
- [3] M. Ogura, V. M. Preciado, and M. Kishida, “Analysis of the susceptible-infected-susceptible epidemic dynamics in networks via the non-backtracking matrix,” *IMA Journal of Applied Mathematics* (accepted for publication), 2020.
- [4] M. Ogura, V. M. Preciado, and M. Kishida, “Analysis of the susceptible-infected-susceptible epidemic dynamics in networks via the non-backtracking matrix,” *IMA Journal of Applied Mathematics* (accepted for publication), 2020.
- [5] 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.
- [6] 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* (accepted for publication), 2019.
- [7] M. Ogura, W. Mei, and K. Sugimoto, “Synergistic effects in networked epidemic spreading dynamics,” *IEEE Transactions on Circuits and Systems II: Express Briefs* (accepted for publication), 2019.



- [23] 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.
- [24] 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.
- [25] M. Ogura and Y. Yamamoto, “Dissipativity of pseudorotational behaviors,” *IEEE Transactions on Automatic Control*, vol. 58, no. 4, pp. 823–833, 2013.
- [26] 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] T. Kimura and M. Ogura, “Distributed collaborative 3D-deployment of UAV base stations for on-demand coverage,” in *IEEE INFOCOM 2020* {\upshape (accepted)}, 2020. (acceptance rate \textit{19.8\%})
- [2] 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* {\upshape (accepted)}, 2020.
- [3] 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.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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.
- [8] 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. \textit{(Young Author Award Finalist)}
- [9] W. Mei and M. Ogura, “Instability analysis of Markov jump linear systems by spectral optimization,” in *SICE Annual Conference 2018*, 2018, pp. 419–422.
- [10] 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.
- [11] 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.

- [12] M. Ogura, J. Tagawa, and N. Masuda, “Distributed agreement on activity driven networks,” in *2018 American Control Conference*, 2018, pp. 4147–4152.
- [13] 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.
- [14] M. Ogura and V. M. Preciado, “Katz centrality of Markovian temporal networks: analysis and optimization,” in *2017 American Control Conference*, 2017, pp. 5001–5006.
- [15] 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.
- [16] 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.
- [17] 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.
- [18] 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.
- [19] 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.
- [20] 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.
- [21] M. Ogura, M. Wakaiki, J. P. Hespanha, and V. M. Preciado, “ $L^2$ -gain analysis of regenerative switched linear systems under sampled-data state-feedback control,” in *2016 American Control Conference*, 2016, pp. 709–714.
- [22] 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.
- [23] 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.
- [24] 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.
- [25] 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.
- [26] 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.

- [27] M. Ogura, M. Nagahara, and V. M. Preciado, “ $L^1$ -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.
- [28] 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.
- [29] M. Ogura and V. M. Preciado, “Disease spread over randomly switched large-scale networks,” in *2015 American Control Conference*, 2015, pp. 1782–1787.
- [30] M. Ogura and R. M. Jungers, “Efficiently computable lower bounds for the  $\rho$ -radius of switching linear systems,” in *53rd IEEE Conference on Decision and Control*, 2014, pp. 5463–5468.
- [31] 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.
- [32] 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.
- [33] M. Ogura and C. F. Martin, “Stability of switching systems and generalized joint spectral radius,” in *2013 European Control Conference*, 2013, pp. 3185–3190.
- [34] 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.
- [35] 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.
- [36] M. Ogura and Y. Yamamoto, “Dissipativity of pseudorational behaviors,” in *19th International Symposium on Mathematical Theory of Networks and Systems*, 2010, pp. 849–853.
- [37] 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.
- [38] 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.
- [39] 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.
- [40] 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.
- [41] 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] “ $\text{“}\ddot{a}\ddot{z}\ddot{i}\ddot{a}\ddot{i}\ddot{T}\ddot{e}\ddot{l}\ddot{L}\ddot{\zeta}\ddot{T}\ddot{z}\ddot{a}\ddot{s}\ddot{T}\ddot{a}\ddot{A}\ddot{n}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{N}\ddot{e}\ddot{A}\ddot{A}\ddot{a}\ddot{E}\ddot{a}\ddot{e}\ddot{Z}\ddot{z}\ddot{a}\ddot{L}\ddot{Z}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{a}\ddot{,}\text{”}$  2019 $\ddot{a}\ddot{z}\ddot{t}\ddot{'}\ddot{a}\ddot{z}\ddot{x}\ddot{a}\ddot{n}\ddot{q}\ddot{a}\ddot{y}\ddot{Y}\ddot{u}\ddot{z}\ddot{c}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{d}\ddot{'}\ddot{a}\ddot{C}\ddot{n}\ddot{a}\ddot{C}\ddot{z}\ddot{a}\ddot{L}\ddot{A}\ddot{e}\ddot{q}\ddot{S}\ddot{e}\ddot{n}\ddot{Z}\ddot{a}\ddot{z}\ddot{g}\ddot{i}\ddot{i}\ddot{J}\ddot{L}$  2020.
- [2] “ $\text{“}\ddot{a}\ddot{C}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{C}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{N}\ddot{U}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{a}\ddot{-}\ddot{a}\ddot{C}\ddot{t}\ddot{a}\ddot{C}\ddot{d}\ddot{'}\ddot{a}\ddot{C}\ddot{R}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{T}\ddot{a}\ddot{C}\ddot{c}\ddot{a}\ddot{C}\ddot{y}\ddot{a}\ddot{C}\ddot{n}\ddot{a}\ddot{C}\ddot{n}\ddot{a}\ddot{C}\ddot{u}\ddot{a}\ddot{C}\ddot{z}\ddot{a}\ddot{C}\ddot{E}\ddot{f}\ddot{a}\ddot{C}\ddot{a}\ddot{a}\ddot{C}\ddot{S}\ddot{\zeta}\ddot{R}\ddot{E}\ddot{e}\ddot{g}\ddot{c}\ddot{a}\ddot{A}\ddot{U}\ddot{i}\ddot{i}\ddot{j}\ddot{N}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{a}\ddot{,}\text{”}$  2020 $\ddot{a}\ddot{z}\ddot{t}\ddot{'}1\ddot{x}\ddot{I}\ddot{J}\ddot{L}\ddot{e}\ddot{n}\ddot{Y}\ddot{a}\ddot{F}\ddot{q}\ddot{e}\ddot{a}\ddot{i}\ddot{j}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{q}\ddot{e}\ddot{A}\ddot{Z}\ddot{a}\ddot{F}\ddot{q}\ddot{c}\ddot{a}\ddot{T}\ddot{\zeta}\ddot{l}\ddot{'}\ddot{u}\ddot{a}\ddot{i}\ddot{j}\ddot{Z}\ddot{i}\ddot{i}\ddot{j}\ddot{L}\ddot{\zeta}\ddot{Z}\ddot{e}\ddot{q}\ddot{l}\ddot{a}\ddot{Z}\ddot{L}\ddot{a}\ddot{o}\ddot{Z}\ddot{i}\ddot{i}\ddot{j}\ddot{L}$ , 2020.
- [3] “Optimization of positive linear systems via geometric programming,” *Guandong University of Technology*, 2019.
- [4] “Optimization of positive linear systems via geometric programming,” *Shenzhen University*, 2019.
- [5] “ $\text{“}\ddot{a}\ddot{C}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{C}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{A}\ddot{n}\ddot{a}\ddot{A}\ddot{L}\ddot{a}\ddot{A}\ddot{S}\ddot{a}\ddot{C}\ddot{N}\ddot{e}\ddot{I}\ddot{J}\ddot{A}\ddot{e}\ddot{A}\ddot{l}\ddot{'}\ddot{e}\ddot{s}\ddot{G}\ddot{a}\ddot{z}\ddot{R}\ddot{e}\ddot{E}\ddot{\zeta}\ddot{i}\ddot{o}\text{,}\text{”}$   $\ddot{a}\ddot{C}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{C}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{r}\ddot{c}\ddot{g}\ddot{S}\ddot{a}\ddot{\zeta}\ddot{e}\ddot{a}\ddot{C}\ddot{z}\ddot{a}\ddot{C}\ddot{S}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{i}\ddot{j}$  2019.
- [6] “Synthesis of positive linear systems by geometric programming,” *University of Hong Kong*, 2019.
- [7] “ $\text{“}\ddot{e}\ddot{d}\ddot{G}\ddot{e}\ddot{Z}\ddot{S}\ddot{a}\ddot{C}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{C}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{A}\ddot{o}\ddot{a}\ddot{e}\ddot{I}\ddot{J}\ddot{A}\ddot{e}\ddot{A}\ddot{l}\ddot{'}\ddot{e}\ddot{l}\ddot{I}\ddot{i}\ddot{i}\ddot{j}\ddot{Z}\ddot{a}\ddot{A}\ddot{l}\ddot{a}\ddot{A}\ddot{I}\ddot{J}\ddot{c}\ddot{g}\ddot{A}\ddot{a}\ddot{N}\ddot{a}\ddot{C}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{C}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{r}\ddot{c}\ddot{g}\ddot{S}\ddot{a}\ddot{\zeta}\ddot{e}\ddot{a}\ddot{A}\ddot{l}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{a}\ddot{,}\text{”}$   $\ddot{e}\ddot{U}\ddot{s}\ddot{\zeta}\ddot{r}\ddot{n}\ddot{N}\ddot{c}\ddot{a}\ddot{T}\ddot{a}\ddot{C}\ddot{z}\ddot{a}\ddot{C}\ddot{S}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{i}\ddot{j}$ , 2019.
- [8] “ $\text{“}\ddot{a}\ddot{z}\ddot{i}\ddot{a}\ddot{i}\ddot{T}\ddot{e}\ddot{l}\ddot{L}\ddot{\zeta}\ddot{T}\ddot{z}\ddot{a}\ddot{s}\ddot{T}\ddot{a}\ddot{A}\ddot{o}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{a}\ddot{q}\ddot{a}\ddot{e}\ddot{I}\ddot{J}\ddot{\zeta}\ddot{T}\ddot{I}\text{,}\text{”}$   $\ddot{e}\ddot{Z}\ddot{z}\ddot{a}\ddot{\zeta}\ddot{R}\ddot{a}\ddot{C}\ddot{E}\ddot{a}\ddot{a}\ddot{s}\ddot{e}\ddot{A}\ddot{Z}\ddot{a}\ddot{F}\ddot{q}\ddot{a}\ddot{\zeta}\ddot{e}\ddot{a}\ddot{i}\ddot{j}\ddot{Z}\ddot{a}\ddot{F}\ddot{q}\ddot{a}\ddot{R}\ddot{u}\ddot{a}\ddot{G}\ddot{e}\ddot{\zeta}\ddot{R}\ddot{E}\ddot{c}\ddot{a}\ddot{T}\ddot{\zeta}\ddot{l}\ddot{'}\ddot{u}\ddot{a}\ddot{i}\ddot{j}\ddot{Z}$ , 2019.
- [9] “Networked epidemic spreading: modeling, analysis, and control,” *National Insitutite of Informatics*, 2018.
- [10] “ $\text{“}\ddot{a}\ddot{C}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{C}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{r}\ddot{a}\ddot{A}\ddot{n}\ddot{a}\ddot{A}\ddot{L}\ddot{a}\ddot{A}\ddot{S}\ddot{a}\ddot{C}\ddot{N}\ddot{e}\ddot{c}\ddot{z}\ddot{c}\ddot{O}\ddot{G}\ddot{c}\ddot{Z}\ddot{D}\ddot{a}\ddot{i}\ddot{j}\ddot{I}\ddot{a}\ddot{e}\ddot{S}\ddot{\zeta}\ddot{a}\ddot{C}\ddot{c}\ddot{a}\ddot{C}\ddot{G}\ddot{a}\ddot{C}\ddot{n}\ddot{a}\ddot{A}\ddot{o}\ddot{e}\ddot{g}\ddot{c}\ddot{a}\ddot{e}\ddot{d}\ddot{R}\ddot{a}\ddot{A}\ddot{l}\ddot{a}\ddot{L}\ddot{u}\ddot{a}\ddot{i}\ddot{a}\text{,}\text{”}$   $\ddot{x}\ddot{U}\ddot{e}\ddot{a}\ddot{I}\ddot{J}\ddot{n}\ddot{a}\ddot{C}\ddot{l}\ddot{a}\ddot{C}\ddot{Z}\ddot{a}\ddot{C}\ddot{n}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{u}\ddot{a}\ddot{C}\ddot{g}\ddot{a}\ddot{C}\ddot{s}\ddot{a}\ddot{C}\ddot{z}\ddot{a}\ddot{C}\ddot{z}\ddot{a}\ddot{C}\ddot{l}\ddot{a}\ddot{C}\ddot{t}\ddot{a}\ddot{C}\ddot{i}\ddot{j}\ddot{a}\ddot{C}\ddot{A}\ddot{a}\ddot{\zeta}\ddot{e}\ddot{a}\ddot{i}\ddot{j}\ddot{Z}\ddot{c}\ddot{n}\ddot{n}279\ddot{a}\ddot{Z}\ddot{d}\ddot{a}\ddot{i}\ddot{E}\ddot{a}\ddot{A}\ddot{q}\ddot{e}\ddot{q}\ddot{N}\ddot{a}\ddot{L}\ddot{U}\ddot{c}\ddot{a}\ddot{T}\ddot{\zeta}\ddot{l}\ddot{'}\ddot{u}\ddot{e}\ddot{C}\ddot{l}\ddot{a}\ddot{i}\ddot{j}\ddot{Z}$ , 2018.
- [11] “ $\text{“}\ddot{e}\ddot{G}\ddot{\zeta}\ddot{e}\ddot{e}\ddot{A}\ddot{a}\ddot{z}\ddot{z}\ddot{c}\ddot{L}\ddot{'}\ddot{a}\ddot{A}\ddot{f}\ddot{a}\ddot{A}\ddot{a}\ddot{a}\ddot{C}\ddot{N}\ddot{i}\ddot{i}\ddot{j}\ddot{S}\ddot{i}\ddot{i}\ddot{d}\ddot{a}\ddot{A}\ddot{d}\ddot{'}\ddot{a}\ddot{A}\ddot{l}\ddot{a}\ddot{A}\ddot{N}\ddot{a}\ddot{C}\ddot{L}\ddot{a}\ddot{C}\ddot{S}\ddot{c}\ddot{g}\ddot{S}\ddot{a}\ddot{\zeta}\ddot{e}\ddot{a}\ddot{A}\ddot{Z}\ddot{a}\ddot{C}\ddot{N}\text{,}\text{”}$   $\ddot{c}\ddot{T}\ddot{S}\ddot{e}\ddot{g}\ddot{S}\ddot{a}\ddot{y}\ddot{C}\ddot{c}\ddot{n}\ddot{N}\ddot{a}\ddot{y}\ddot{\zeta}\ddot{a}\ddot{\zeta}\ddot{e$

- [18] “Analysis and control of spreading processes over complex networks,” *Tokyo University of Agriculture and Technology*, 2016.
- [19] “Dynamical systems over time-varying networks,” *Workshop on Recent Advances in Systems and Control*, Kyoto University, 2015.
- [20] “Dynamical systems over time-varying networks,” *Tokyo Institute of Technology*, 2015.
- [21] “Stability analysis of switched linear systems with non-traditional switching signals,” in *GRASP special seminar*, University of Pennsylvania, 2014.
- [22] “Mean stability of switched linear systems,” *Université Catholique de Louvain*, 2013.

## TEACHING ACTIVITIES

### **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

Jan 2016 - **Associate Editor:** Journal of The Franklin Institute

**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:** Annual Reviews in Control; Automatica; Applied Mathematics and Computation; Asian Journal of Control; Computer Communications; European Journal of Control European Physical Journal B; Foundations of Computational Mathematics; IEEE Control Systems Letters; IEEE Intelligent Systems; IEEE Transactions on Automatic Control; 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; Neurocomputing; Nonlinear Analysis: Hybrid Systems; Physica A; Physics Letters A; SIAM Journal on Control and Optimization; Stochastics and Dynamics; Systems and Control Letters; Research in Engineering Design

Masaki Ogura, February 2020