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Curriculum Vitae
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専門分野

ネットワーク科学, 制御工学, 最適化, 確率過程, 設計工学

学歴

2014年8月	テキサス工科大学 Ph.D. (Mathematics)
2009年3月	京都大学 修士 (情報学)
2007年3月	京都大学 学士 (工学)

職歴

2019年11月-	大阪大学 准教授
2017年3月-2019年10月	奈良先端科学技術大学院大学 助教
2014年11月-2017年2月	ペンシルバニア大学 電気システム工学科 博士研究員

短期滞在

2018年, 2019年	香港大学 (香港)
2013年	ルーヴァン・カトリック大学 (ベルギー)

代表的な受賞

2019年2月	IEEE Transactions on Network Science and Engineering 準最優秀論文賞
2018年3月	計測自動制御学会 制御部門 制御部門大会賞
2018年1月	計測自動制御学会 関西支部 支部長賞 奨励賞
2014年4月	テキサス工科大学 Summer Dissertation/Thesis Research Award
2013年7月	テキサス工科大学 Cash Family Endowed Fellowship
2012年6月	計測自動制御学会 論文賞

研究助成

- 国立情報学研究所 自由提案公募型共同研究 2019年度
- 国立情報学研究所 自由提案公募型共同研究 2018年度
- 科学研究費 若手研究 2018年度～2020年度 ネットワークにおける伝播の解析と制御：モチーフを活用した多項式時間アルゴリズム
- 科学研究費 基盤研究B 2018年度～2021年度 計測や通信の品質が保証されない環境下での事象トリガ調整型2自由度制御系 (代表者 杉本謙二)

研究業績

著書

- [1] 永原正章, 岡野訓尚, 小蔵正輝, and 若生将史, ネットワーク化制御. コロナ社, 2019.

著書 (book chapter)

- [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. Hüper and J. Trumpf, Eds. CreateSpace, 2013, pp. 291–300.

招待講演等

- [1] “ネットワークにおける最適資源配置,” ネットワーク科学セミナー2019, 2019.
- [2] “Synthesis of positive linear systems by geometric programming,” *University of Hong Kong*, 2019.
- [3] “複雑ネットワークの最適設計：なぜ私がネットワーク科学と制御工学のはざまにいるのか,” 足立研セミナー, 2019.
- [4] “幾何計画法の制御応用,” 電子情報通信学会信号処理研究会, 2019.
- [5] “ネットワークにおける確率的伝播モデルの解析と制御,” 日本オペレーションズ・リサーチ学会第279回待ち行列研究部会, 2018.
- [6] “Networked epidemic spreading: modeling, analysis, and control,” *National Insitutite of Informatics*, 2018.
- [7] “重要人物はだれ？～つながりを科学する,” 生駒市立中学校出前授業, 2018.
- [8] “Network epidemiology and control theory,” *University of Hong Kong*, 2018.
- [9] “テンポラルネットワークの数理モデリング,” 第62回システム制御情報学会研究発表講演会, 2018.
- [10] “じゃんけんでまなぶ複雑ネットワーク,” 生駒市立中学校出前授業, 2017.
- [11] “How can we “control” spreading processes over complex networks?” 第4回数理モデリング研究会, 2017.
- [12] “伝播の解析と制御：確率微分方程式によるアプローチ,” ERATO河原林プロジェクト複雑ネットワーク・地図グラフセミナー, 2017.
- [13] “Analysis and control of spreading processes over complex networks,” *Washington State University*, 2017.
- [14] “Analysis and control of spreading processes over complex networks,” *Tokyo University of Agriculture and Technology*, 2016.
- [15] “Dynamical systems over time-varying networks,” *Tokyo Institute of Technology*, 2015.
- [16] “Dynamical systems over time-varying networks,” *Workshop on Recent Advances in Systems and Control*, Kyoto University, 2015.
- [17] “Stability analysis of switched linear systems with non-traditional switching signals,” in *GRASP special seminar*, University of Pennsylvania, 2014.
- [18] “Mean stability of switched linear systems,” *Université Catholique de Louvain*, 2013.

解説・総説

- [1] 小蔵正輝, “フェイルセーフな海外研究生活,” システム／制御／情報, vol. 11, pp. 449–454, 2018.
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査読付き論文

- [1] 今林亘, 韓心又, 小蔵正輝, and 杉本謙二, “フィードバック誤差学習制御におけるフィルタ設計と強正実性の達成,” 計測自動制御学会論文集 (accepted for publication), vol. 56, no. 3, 2020.
- [2] 蓼沼知秀, 小蔵正輝, and 杉本謙二, “観測信号と操作信号の損失にロバストなラウンドロビンスケジューリング切り替え制御系,” 計測自動制御学会論文集 (accepted for publication), vol. 56, no. 3, 2020.
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- [19] M. Ogura and C. F. Martin, “Stability analysis of linear systems subject to regenerative switchings,” *Systems & Control Letters*, vol. 75, pp. 94–100, 2015.
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査読付き国際会議論文

- [1] 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* (accepted), 2020.
- [2] 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.
- [3] 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.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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)**
- [8] W. Mei and M. Ogura, “Instability analysis of Markov jump linear systems by spectral optimization,” in *SICE Annual Conference 2018*, 2018, pp. 419–422.
- [9] 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.
- [10] 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.

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- [12] 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.
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- [15] 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.
- [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. 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.
- [18] 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.
- [19] 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.
- [20] 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.
- [21] 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.
- [22] 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.
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- [25] 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.
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- [28] M. Ogura and V. M. Preciado, “Disease spread over randomly switched large-scale networks,” in *2015 American Control Conference*, 2015, pp. 1782–1787.
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- [31] 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.
- [32] M. Ogura and C. F. Martin, “Stability of switching systems and generalized joint spectral radius,” in *2013 European Control Conference*, 2013, pp. 3185–3190.
- [33] 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.
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- [37] 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.
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学会発表

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教育経験

奈良先端科学技術大学院大学

- 情報科学特別講義 (2018)
- 知能システム制御特論 (2017, 2018)

ペンシルバニア大学

- Convex Optimization in Systems and Control (Co-lecturer, Fall 2015)

テキサス工科大学

- 講師
 - Calculus II (Summer 2014, Spring 2014, Spring 2013)
 - Calculus I (Summer 2013, Fall 2012)
 - Trigonometry (Fall 2011)
 - College Algebra (Fall 2013, Spring 2012)
- ティーチングアシスタント
 - Advanced Calculus (Summer 2012)
 - Linear Algebra (Summer 2012)
 - Higher Mathematics for Engineers and Scientists I (Summer 2011)

京都コンピュータ学院

- 制御工学 (2009, 2009)
- 電気回路 (2008)
- データ構造 (2008)
- 数値解析 (2009, 2010)

京都大学 (ティーチング・アシスタント)

- 自然現象と数学 (2009)
- 現代制御論 (2008, 2009)

学会活動

- 2019年度～：計測自動制御学会 関西支部 庶務幹事
- 2019年～：計測自動制御学会 制御部門 真なるダイナミクスの追求による次世代システム制御理論調査研究委員会, 委員
- 2018年度～：電子情報通信学会 高信頼制御通信研究会(RCC), 幹事補佐
- 2018年～：計測自動制御学会 制御部門 IoT時代に向けたイベントベース制御調査研究会, 委員
- 2018年：Local Arrangements Vice Chair, SICE Annual Conference 2018

- 2017年～ : International Federation of Automatic Control, Technical Committee 1.5. Networked Systems, Member
- 2015年 : 5th IFAC Workshop on Distributed Estimation and Control in Networked Systems, Associate Editor