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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

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|------------------|---------------------------|
| 2017年3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

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|----------|----------------------|
| 2018年7月 | 香港大学 (香港) |
| 2013年11月 | ルーヴァン・カトリック大学 (ベルギー) |

代表的な受賞

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|---------|--|
| 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] 永原編著 and 小蔵ほか著, ネットワーク化制御 (刊行予定). 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] “Synthesis of positive linear systems by geometric programming,” *University of Hong Kong* (to be presented), 2019.
- [2] “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.
- [3] “Networked epidemic spreading: modeling, analysis, and control,” *National Insitutite of Informatics*, 2018.
- [4] “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.
- [5] “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.
- [6] “Network epidemiology and control theory,” *University of Hong Kong*, 2018.
- [7] “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.
- [8] “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.
- [9] “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.
- [10] “How can we “control” spreading processes over complex networks?” 第4回数理モデリング研究会, 2017.
- [11] “Analysis and control of spreading processes over complex networks,” *Washington State University*, 2017.
- [12] “Analysis and control of spreading processes over complex networks,” *Tokyo University of Agriculture and Technology*, 2016.
- [13] “Dynamical systems over time-varying networks,” *Workshop on Recent Advances in Systems and Control*, Kyoto University, 2015.
- [14] “Dynamical systems over time-varying networks,” *Tokyo Institute of Technology*, 2015.
- [15] “Stability analysis of switched linear systems with non-traditional switching signals,” in *GRASP special seminar*, University of Pennsylvania, 2014.
- [16] “Mean stability of switched linear systems,” *Université Catholique de Louvain*, 2013.

解説・総説

- [1] 小蔵, “複雑ネットワークにおける最適資源配置—Geometric program によるアプローチ,” 電子情報通信学会基礎・境界ソサイエティ *IEICE Fundamentals Review*, vol. 12, no. 3, pp. 191–200, 2019.
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査読付き論文

- [1] 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.
- [2] 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.
- [3] 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.
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- [5] 蓼沼, 小蔵, and 杉本, “信号損失を考慮したゲイン切り替え型状態オブザーバの設計,” 計測自動制御学会論文集, vol. 55, no. 3, 2019.
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- [12] 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.
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- [16] 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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- [21] M. Nagahara, M. Ogura, and Y. Yamamoto, “ H^∞ 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)**

査読付き国際会議論文

- [1] M. Ogura, M. Kishida, K. Hayashi, and J. Lam, “Geometric programming for optimizing stability of distributed power control algorithms,” in *SICE Annual Conference 2019* (accepted), 2019.
- [2] M. Ogura, W. Mei, and K. Sugimoto, “Upper-bounding dynamics on networked synergistic susceptible-infected-susceptible model,” in *SICE Annual Conference 2019* (accepted), 2019.
- [3] M. Ogura, M. Kishida, K. Hayashi, and J. Lam, “Resource allocation for robust stabilization of Foschini-Miljanic Algorithm,” in *2019 American Control Conference* (accepted), 2019.
- [4] 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.
- [5] 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)**
- [6] W. Mei and M. Ogura, “Instability analysis of Markov jump linear systems by spectral optimization,” in *SICE Annual Conference 2018*, 2018, pp. 419–422.
- [7] 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.
- [8] 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.
- [9] M. Ogura, J. Tagawa, and N. Masuda, “Distributed agreement on activity driven networks,” in *2018 American Control Conference*, 2018, pp. 4147–4152.
- [10] 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.
- [11] M. Ogura and V. M. Preciado, “Katz centrality of Markovian temporal networks: analysis and optimization,” in *2017 American Control Conference*, 2017, pp. 5001–5006.
- [12] 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.
- [13] 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.
- [14] 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.

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- [16] 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.
- [17] 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.
- [18] 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.
- [19] 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.
- [20] 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.
- [21] 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.
- [22] 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.
- [23] 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.
- [24] 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.
- [25] M. Ogura and V. M. Preciado, “Disease spread over randomly switched large-scale networks,” in *2015 American Control Conference*, 2015, pp. 1782–1787.
- [26] 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.
- [27] 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.
- [28] 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.
- [29] 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.
- [30] M. Ogura and C. F. Martin, “Stability of switching systems and generalized joint spectral radius,” in *2013 European Control Conference*, 2013, pp. 3185–3190.
- [31] 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.
- [32] 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.
- [33] 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.
- [34] M. Ogura and Y. Yamamoto, “Dissipativity of pseudorational behaviors,” in *19th International Symposium on Mathematical Theory of Networks and Systems*, 2010, pp. 849–853.

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- [36] M. Nagahara, M. Ogura, and Y. Yamamoto, “A novel approach to repetitive control via sampled-data H^∞ filters,” in *7th Asian Control Conference*, 2009, pp. 160–165.
- [37] M. Nagahara, M. Ogura, and Y. Yamamoto, “Interpolation of nonuniformly decimated signals via sampled-data H^∞ optimization,” in *SICE Annual Conference 2008*, 2008, pp. 1151–1154.
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学会発表

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- [4] 八木, 小蔵, 岸田, 杉本, and 林, “構造的な不確かさをもつ環境における分散送信電力制御アルゴリズムのロバスト安定化,” 電子情報通信学会無線通信システム研究会, 2019.
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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