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学歴

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職歴

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2014年4月 テキサス工科大学 Summer Dissertation/Thesis Research Award

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研究助成

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- 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

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著書(book chapter)

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招待講演等

- [1] "Synthesis of positive linear systems by geometric programming," *University of Hong Kong* (to be presented), 2019.
- [2] "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 (発表予定), 2019.
- [3] "複雑ネットワークの最適設計:ネットワーク科学と制御工学のはざま(発表予定)," 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] "Networked epidemic spreading: modeling, analysis, and control," *National Institutite of Informatics*, 2018.
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- [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] "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.
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- [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.
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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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- [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.
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- [5] 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.
- [6] 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)
- [7] W. Mei and M. Ogura, "Instability analysis of Markov jump linear systems by spectral optimization," in *SICE Annual Conference 2018*, 2018, pp. 419–422.
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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)
- 数值解析 (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ト制御調査研究会,委員
- 2018年: Local Arrangements Vice Chair, SICE Annual Conference 2018
- 2017年 \sim : 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