# 小蔵 正輝

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〒630-0223 奈良県 生駒市 高山町 8916-5 奈良先端科学技術大学院大学 先端科学技術研究科 情報科学領域 知能システム制御研究室 oguram@is.naist.jp https://masakiogura.com

#### 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

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

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

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

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#### 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.
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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] "TBD," 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] "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 Institutite 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.
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- [11] "How can we "control" spreading processes over complex networks?" 第4回数理モデリング研究会, 2017.
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- [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, "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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- [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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# 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