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# Curriculum Vitae Thursday 9<sup>th</sup> April, 2020

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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)

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 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

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### 研究助成

- 公益財団法人電気通信普及財団 研究調査助成 深層学習を用いた超高精度な行列因子分解 2020年度
- 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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- [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.
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### 招待講演等

- [1] "幾何計画法による送信電力制御," 2019年度次世代ワイヤレス技術講座(発表予定), 2020.
- [2] "ネットワーク化制御-サイバーフィジカルシステムを理解し,制御するために-," 2020年1月高信頼制御通信研究会, 2020.
- [3] "Optimization of positive linear systems via geometric programming," *Guandong University of Technology*, 2019.
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- [5] "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.
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- [11] "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.
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- [14] "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.
- [15] "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.
- [16] "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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- [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.

# 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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- [2] T. Kimura and M. Ogura, "Distributed collaborative 3D-deployment of UAV base stations for on-demand coverage," in *IEEE INFOCOM 2020*, 2020. Acceptance rate **19.8 percent**.

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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

- 2020年 $\sim$ : Program Committee member, International Conference on Complex Networks and their Applications
- 2020年~: Associate Editor, Journal of The Franklin Institute
- 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 Editor	: 5th IFAC	C Workshoj	p on Distribu	ıted Estimat	ion and Co	ntrol in Netv	vorked System	s, Associate