

# 業績リスト

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## 学術論文

## 国際論文誌

1. Takuya Ikeda, Masaaki Nagahara, **Kenji Kashima**,  
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## 査読付き国際会議

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## 招待講演

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  2. **Kenji Kashima**,  
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  3. **Kenji Kashima**,  
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1. 加嶋 健司,  
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  2. 加嶋 健司,  
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  4. 加嶋 健司,  
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  5. 加嶋 健司,  
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## 7. 加嶋 健司

“量子力学系のフィルタリングと制御,”

第 52 回システム制御情報学会研究発表講演会, 招待講演, 京都, 2008

## 受賞歴

1. 2016. 計測自動制御学会 論文賞 武田賞
2. 2015. 計測自動制御学会 論文賞
3. 2014. システム制御情報学会 学会賞 産業技術賞
4. 2014. システム制御情報学会 学会賞 論文賞
5. 2013. 計測自動制御学会 制御部門大会賞
6. 2012. システム制御情報学会 学会賞 論文賞
7. 2012. 計測自動制御学会 制御部門 パイオニア賞  
大規模系・分布定数系のシステム制御理論とその応用に関する一連の研究に対して
8. 2011. SICE Annual Conference International Award
9. 2010. 計測自動制御学会 論文賞
10. 2010. Humboldt Research Fellowship for Experienced Researchers - Alexander von Humboldt Foundation (Germany)  
Working Title ”Control Theoretic Approach to Spatially Distributed Dynamics and Stochasticity in Systems Biology”
11. 2008. 計測自動制御学会 制御部門大会賞
12. その他
  - 2012 大阪大学総長奨励賞
  - 2012 American Control Conference - Best Presentation Award
  - 2011 大阪大学総長による表彰
  - 2007 システム制御情報学会 学会賞奨励賞
  - 2006 計測自動制御学会 学術奨励賞研究奨励賞

## セミナー

- 2011 INRIA (France)
- 2010 Stuttgart University (Germany), Twente University (Netherlands), Oxford University (U.K.)
- 2005 Bilkent University (Turkey)

## 外部資金獲得実績

### 研究代表者

1. 平成 30～令和 3 年度科学研究費補助金 基盤研究 (B)  
「確率可制御性縮約による機械学習援用制御手法の可解釈性獲得」
2. 平成 26～29 年度科学研究費補助金 基盤研究 (B)  
「確率ゆらぎと相互作用し機能する制御系の設計論：不変測度解析と応用」
3. 平成 26～28 年度科学研究費補助金 挑戦的萌芽研究  
「大規模非負システム制御理論に基づく映像投影システムの設計論」
4. 2011 年度 Humboldt Research Fellowship for Experienced Researchers from the Alexander von Humboldt Foundation (Germany)  
“Control Theoretic Approach to Spatially Distributed Dynamics and Stochasticity in Systems Biology”
5. 平成 21～24 年度科学研究費補助金 若手研究 (A)  
「確率制御の新展開:レヴィ過程の制御と数理ファイナンスへの応用」
6. 平成 18～20 年度科学研究費補助金 若手研究 (B)  
「性能限界の解析に基づく制御系における情報伝達遅延の最適化」
1. 平成 28～30 年度 トヨタ自動車様（共同研究費）
2. 平成 25～26 年度 新日鐵住金様（共同研究費）
3. 平成 20 年度～ 住友重機械工業様（共同研究費・奨学寄付金）

### 研究分担者

1. 平成 30～令和 2 年度科学研究費補助金 挑戦的研究 (萌芽)（代表者: 岩井大輔）  
「適応的焦点多重化による立体プロジェクションマッピングの輻輳調節矛盾解決」
2. 平成 25～27 年度科学研究費補助金 基盤研究 (C)（代表者: 櫻井 建成）  
「生物を模倣した時空間秩序変数を持つネットワーク構造の理解と応用」
3. 平成 24～26 年度科学研究費補助金 基盤研究 (B)（代表者: 大塚 敏之）  
「大規模非線形時空間パターン制御の実時間最適化アルゴリズムと応用」
4. 平成 22～23 年度科学研究費補助金 挑戦的萌芽研究（代表者: 井村 順一）  
「外部環境に開いたオープン制御系の設計理論の創成」
5. 平成 21～25 年度最先端研究開発支援プログラム（中心研究者: 合原 一幸）  
「複雑系数理モデル学の基礎理論構築とその分野横断的科学技術応用」
6. 平成 20～22 年度科学研究費補助金 基盤研究 (B)（代表者: 井村 順一）  
「遺伝子発現ネットワークのためのモデリング・解析・制御」
7. 平成 18～20 年度科学研究費補助金 萌芽研究（代表者: 井村 順一）  
「遺伝子発現ネットワークの可制御性解析」



## 主な学会活動

- 2017- Associate Editor of IEEE Trans. Automatic Control
- 2011- Associate Editor of Conference Editorial Board, IEEE Control Systems Society
- 2014- Associate Editor of Asian Journal of Control
- 2014- Member of Program Committee of SIAM Conference on Control & its Applications
- 2017-2018 Local Arrangements Chair of SICE Annual Conference 2018
- 2016-2017 Secretary, IEEE Control Systems Society Kansai Chapter
- 2014-2015 Treasurer, IEEE Control Systems Society Kansai Chapter
- 2019- 計測自動制御学会 機械学習と調和する制御理論 調査研究会（主査）<http://dml.sice-ctrl.jp/>
- 2017-2018 計測自動制御学会 モデルベース制御における機械学習とダイナミクスの融合 調査研究会（副主査）
- 2014- 計測自動制御学会 制御部門 学術委員会（[2015-2016] 幹事, [2014,2017] 副幹事）
- 2017-2018 計測自動制御学会 会誌出版委員会
- 2017-2018 計測自動制御学会 関西支部 庶務幹事
- 2015-2018 計測自動制御学会 代議員
- 2014-2018 計測自動制御学会 制御部門 国際委員会
- 2013-2014 計測自動制御学会 制御部門 制御理論部会（[2014] 幹事）
- 2012, 2018 システム制御情報学会 研究発表講演会 実行委員会
- 2012-2013 システム制御情報学会 編集委員会
- 2011-2012 計測自動制御学会関西支部 運営委員会
- 2009-2010 計測自動制御学会 制御部門 制御理論部会
- 2008-2009 計測自動制御学会 制御部門 事業委員会

## 初等・中等教育活動歴

1. 出張講義 兵庫高校 (兵庫県) 2017/12/20
2. SSH マスツアー 講演 大手前高校 (大阪府) 2016/10/09
3. 京都大学 ELCAS 基盤コース後期 数理工学 実習指導 2015/1-3

## アウトリーチ活動

1. 「機械学習と調和する制御理論」講演, トヨタ自動車株式会社 東富士研究所 2019/3/18

## 新聞・雑誌等

1. 『京大と JST、風力発電の出力変動が電力系統へ及ぼす影響の評価手法を開発』 日本経済新聞 オンライン版 2018/05/31

## 学内委員会（現職のみ）

1. 人を対象とする研究倫理小委員会 委員長 2018/04/01～2019/03/31
2. 工学部情報学科数理工学コース カリキュラム委員会 副委員長 2018/04/01～2019/03/31
3. 工学部情報学科 教務委員 2017/04/01～2018/03/31
4. 工学部情報学科数理工学コース 副教務委員 2016/04/01～2017/03/31
5. その他 情報学研究科 各種委員会 委員（基盤整備委員会, 財務委員会, 評価WG, 情報セキュリティ作業委員会, 計算機小委員会 など）

## 講義担当（現職のみ）

- 制御システム特論（情報学研究科）
- 現代制御論（工学部4回生）
- 信号とシステム（工学部4回生）
- 線形制御理論（工学部3回生）
- 数理工学セミナー（工学部3回生）（2016-2018）
- ILAS セミナー（工学部1回生）（2016）

## 指導学生の受賞（現職着任以降）

1. 伊藤 海斗: 一般財団法人丸文財団 国際交流助成（2018/12）
2. 清水 一浩: 計測自動制御学会関西支部 支部長賞（2018/01）
3. 山本 一輝: 第61回システム制御情報学会研究発表講演会 学生発表賞（2017/05），計測自動制御学会制御部門 研究奨励賞（2019/03）
4. 池田 卓矢: 第13回 IEEE 関西支部 学生研究奨励賞（2016/01），公益財団法人 NEC C&C 財団 2016 年度 C&C 若手優秀論文賞（2016/12），計測自動制御学会関西支部 支部長賞 奨励賞（2017/01）
5. 長澤 雄二: 第60回システム制御情報学会研究発表講演会 学生発表賞（2016/05），計測自動制御学会制御部門 学術奨励賞 研究奨励賞（2017/02）
6. 塚本 潤: 計測自動制御学会関西支部・システム制御情報学会 若手研究発表会 優秀発表賞（2015/01），計測自動制御学会関西支部 支部長賞（2016/01），計測自動制御学会制御部門 研究奨励賞（2017/03）
7. 奥村 悠太: 計測自動制御学会関西支部・システム制御情報学会 若手研究発表会 最優秀発表賞（2015/01），
8. 井上 大輔: 計測自動制御学会制御部門 研究奨励賞（2014/03）
9. 梅津 佑介: 計測自動制御学会制御部門 研究奨励賞（2014/03），計測自動制御学会 論文賞 武田賞（2016/9）