

# 業績リスト Research Achievement

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## 学術論文等 Publication

### 国際論文誌 International Journal

41. Daisuke Iwai\*, Hidetoshi Izawa\*, **Kenji Kashima\***, Tatsuyuki Ueda, Kosuke Sato, (\* contributed equally)  
“Speeded-up focus control of electrically tunable lens by sparse optimization,”  
*Scientific Reports*, **9**, 12365, 2019  
DOI: 10.1038/s41598-019-48900-z
40. Takuya Ikeda, Masaaki Nagahara, **Kenji Kashima**,  
“Maximum hands-off distributed control for consensus of multi-agent systems with sampled-data state observation,”  
*IEEE Transactions on Control of Network Systems*, Vol. **6**, Issue 2, pp. 852/862, 2019  
DOI: 10.1109/TCNS.2018.2880296
39. Takuya Ikeda, **Kenji Kashima**,  
“On sparse optimal control for general linear systems,”  
*IEEE Transactions on Automatic Control*, Vol. **64**, Issue 5, pp. 2077/2083, 2019  
DOI: 10.1109/TAC.2018.2842145
38. **Kenji Kashima**, Hiroki Aoyama, Yoshito Ohta,  
“Stable process approach to analysis of systems under heavy-tailed noise: Modeling and stochastic linearization,”  
*IEEE Transactions on Automatic Control*, Vol. **64**, Issue 4, pp. 1344/1357, 2019  
DOI: 10.1109/TAC.2018.2842145

37. **2019 IEEE CSS Roberto Tempo Best CDC Paper Award**  
Takuya Ikeda, **Kenji Kashima**,  
“Sparsity-constrained controllability maximization with application to time-varying control node selection,”  
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DOI: 10.1109/LCSYS.2018.2833621  
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36. Naomi Kuze, Daichi Kominami, **Kenji Kashima**, Tomoaki Hashimoto, Masayuki Murata,  
“Self-organizing control mechanism based on collective decision-making for information uncertainty,”  
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35. Naomi Kuze, Daichi Kominami, **Kenji Kashima**, Tomoaki Hashimoto, Masayuki Murata,  
“Hierarchical optimal control method for controlling large-scale self-organizing networks,”  
*ACM Transactions on Autonomous and Adaptive Systems*, vol. **12**, Issue 4, Article No. 22, 2017  
DOI: 10.1145/3124644
34. Jun Tsukamoto, Daisuke Iwai, **Kenji Kashima**,  
“Distributed optimization framework for shadow removal in multi-projection systems,”  
*Computer Graphics Forum*, 2017,  
DOI: 10.1111/cgf.13085
33. Yuta Okumura, **Kenji Kashima**, Yoshito Ohta,  
“Iterative path integral approach to nonlinear stochastic optimal control under compound Poisson noise,”  
*Asian Journal of Control*, Vol. **19**, Issue 2, pp. 781/786, 2017  
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32. **Kenji Kashima**,  
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DOI: 10.1038/srep27300
31. Naomi Kuze, Daichi Kominami, **Kenji Kashima**, Tomoaki Hashimoto, Masayuki Murata,  
“Controlling large-scale self-organized networks with lightweight cost for fast adaptation to changing environments,”  
*ACM Transactions on Autonomous and Adaptive Systems*, vol. **11**, Issue 2, Article No. 9, June 2016  
DOI: 10.1145/2856424
30. Jun Tsukamoto, Daisuke Iwai, **Kenji Kashima**,  
“Radiometric compensation for cooperative distributed multi-projection system through 2-DOF distributed control,”  
*IEEE Transactions on Visualization and Computer Graphics*, Vol. **21**, Issue 11, pp. 1221/1229, 2015  
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29. Takayuki Ishizaki, **Kenji Kashima**, Antoine Girard, Jun-ichi Imura, Luonan Chen, Kazuyuki Aihara,  
“Clustered model reduction of positive directed networks,”  
*Automatica*, Vol. **59**, Issue September, pp. 238/247, 2015  
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28. **Kenji Kashima**, Toshiyuki Ogawa, Tatsunari Sakurai,  
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26. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Masayasu Suzuki, Kazuyuki Aihara,  
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 DOI: 10.1002/rnc.3294
25. **Kenji Kashima**, Masakazu Kato, Jun-ichi Imura, Kazuyuki Aihara,  
 “Probabilistic evaluation of interconnectable capacity for wind power generation,”  
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24. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,  
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21. **Kenji Kashima**, Yutaka Takahashi, Jun-ichi Imura,  
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20. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara,  
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19. **Kenji Kashima**, Reiichiro Kawai,  
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4. **Kenji Kashima**, Yutaka Yamamoto,  
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2. **Kenji Kashima**, Yutaka Yamamoto,  
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1. **Kenji Kashima**, Yutaka Yamamoto, Masaaki Nagahara,  
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21. 伊藤 海斗, 林 輝, 加嶋 健司, 加藤 政一,  
 “風力発電連係による擾乱のべき乗則の検証と確率システム解析,”  
 計測自動制御学会論文誌, Vol. **54**, Issue 12, pp. 878/885, 2018  
 DOI: 10.9746/sicetr.54.878
20. 南 裕樹, 加嶋 健司,  
 “システムの直列分解に基づく動的量子化器設計,”  
 計測自動制御学会論文誌, Vol. **52**, Issue 1, pp. 46/51, 2016  
 DOI: 10.9746/sicetr.52.46
19. 塚本 潤, 岩井 大輔, 加嶋 健司,  
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18. **2016 年度 計測自動制御学会 論文賞 武田賞**  
 梅津 佑介, 小川 知之, 加嶋 健司,  
 “反応拡散系における不安定定在波の選択的安定化,”  
 計測自動制御学会論文誌, Vol. **51**, Issue 2, pp. 110/119, 2015  
 DOI: 10.9746/sicetr.51.110

17. 加嶋 健司, 井上 大輔,  
“ネットワーク化制御系における確率雑音の白色化効果と非再現性の同時活用,”  
計測自動制御学会論文誌, Vol. **50**, Issue 10, pp. 712/720, 2014  
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16. 亀本 大貴, 橋本 智昭, 加嶋 健司, 大塚 敏之,  
“モデル予測制御に基づいた実時間価格制による電力系統の負荷周波数制御,”  
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15. **2014 年度 システム制御情報学会 学会賞 論文賞**  
井上 正樹, 新井 貴行, 井村 順一, 加嶋 健司, 合原 一幸,  
“動的不確かさを含むシステムのロバスト分岐解析—平衡点の安定性変化による局所分岐の場合—,”  
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14. **2014 年度 システム制御情報学会 学会賞 産業技術賞**  
定本 知徳, 加嶋 健司, 森田 洋, 水野 博之,  
“射出成形機むけ加熱シリンダの非線形モデリングと低次元化,”  
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井上 正樹, 鈴木 雅康, 加嶋 健司, 井村 順一, 合原 一幸,  
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“スケール変換を介した連続極限解析による大規模カスケードシステムの低次元化,”  
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“電磁型締め装置の分布定数モデリングと制御,”  
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4. 加嶋 健司, 西尾 和記,  
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2. 加嶋 健司, 西尾 和記,  
“離散時間系における最適  $H^2$  制御性能の非最小位相特性による特徴付け,”  
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## 査読付き国際会議 Refereed International Conference

82. Takuya Ikeda, Daniel Zelazo, **Kenji Kashima**,  
“Maximum hands-off distributed bearing-based formation control,”  
to be presented in *57th IEEE Conf. Decision and Control (CDC)*, pp. xxx/xxx, 2019  
DOI: xxx
81. Shuto Yamada, Kentaro Ohki, **Kenji Kashima**,  
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*SICE Annual Conf. 2019*, pp. xxx/xxx, 2019  
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80. Takuya Ikeda, **Kenji Kashima**,  
“Sparse optimal feedback control for continuous-time systems,”  
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79. Takuya Ikeda, **Kenji Kashima**,  
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78. Kaito Ito, **Kenji Kashima**,  
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75. Kazuhiro Shimizu, Hayato Nakada, **Kenji Kashima**,  
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74. Kentaro Ohki, Hideharu Sugihara, **Kenji Kashima**, Yoshito Ohta,  
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73. Yuji Nagasawa, **Kenji Kashima**,  
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72. Takuya Ikeda, **Kenji Kashima**,  
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71. **Kenji Kashima**,  
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70. Takuya Ikeda, Masaaki Nagahara, **Kenji Kashima**,  
 “Consensus by maximum hands-off distributed control with sampled-data state observation,”  
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69. Jun Tsukamoto, Daisuke Iwai, **Kenji Kashima**,  
 “Distributed optimization for shadow removal in spatial augmented reality,”  
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68. Yuya Tomisawa, Kentaro Ohki, Hideharu Sugihara, **Kenji Kashima**, Yoshito Ohta,  
 “Exploitation of uncertain weather forecast data in power network management,”  
*6th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys’16)*, 2016
67. Yuki Minami, **Kenji Kashima**,  
 “Dynamic quantizer design based on serial system decomposition,”  
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66. **Kenji Kashima**,  
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65. Yuya Tomisawa, Kentaro Ohki, Hideharu Sugihara, **Kenji Kashima**, Yoshito Ohta,  
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