業績リスト

加嶋 健司

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学術論文

国際論文誌

1. 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

2. 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

3. **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

4. Takuya Ikeda, **Kenji Kashima**,
   "Sparsity-constrained controllability maximization with application to time-varying control node selection,"
   IEEE Control Systems Letters, Vol. **2**, Issue 3, pp. 321/326, 2018
   DOI: 10.1109/LCSYS.2018.2833621

5. Naomi Kuze, Daichi Kominami, **Kenji Kashima**, Tomoaki Hashimoto, Masayuki Murata,
   "Self-organizing control mechanism based on collective decision-making for information uncertainty,"
   ACM Transactions on Autonomous and Adaptive Systems, vol. **13**, Issue 1, Article No. 7,
   DOI: 10.1145/3183340

6. 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

7. 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

8. 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
DOI: 10.1002/asjc.1402

9. **Kenji Kashima**,
"Noise response data reveal novel controllability Gramian for nonlinear network dynamics,"
Scientific Reports, **6**, 27300, 2016
DOI: 10.1038/srep27300

10. 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

11. 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
DOI: 10.1109/TVCG.2015.2459905

12. 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
DOI: 10.1016/j.automatica.2015.06.027

13. **Kenji Kashima**, Toshiyuki Ogawa, Tatsunari Sakurai,
"Selective pattern formation control: Spatial spectrum consensus and Turing instability approach,"
Automatica, Vol. **56**, Issue June, pp. 25/35, 2015
DOI: 10.1016/j.automatica.2015.03.019

14. Takayuki Ishizaki, Henrik Sandberg, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Dissipativity-preserving model reduction for large-scale distributed control systems,"
IEEE Transactions on Automatic Control, Vol. **60**, Issue 4, pp. 1023/1037, 2015
DOI: 10.1109/TAC.2014.2370271

15. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Masayasu Suzuki, Kazuyuki Aihara,
"Absolute instability of Lur'e systems and its application to oscillation analysis of uncertain genetic networks,"
International Journal of Robust and Nonlinear Control, Vol. **25**, Issue 18, pp. 3746/3762, 2014
DOI: 10.1002/rnc.3294

16. **Kenji Kashima**, Masakazu Kato, Jun-ichi Imura, Kazuyuki Aihara,
"Probabilistic evaluation of interconnectable capacity for wind power generation,"
European Physics Journal Special Topics (EPJ ST) on "Resilient power grids and extreme events," 2014
DOI: 10.1140/epjst/e2014-02276-9

17. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Model reduction and clusterization of large-scale bidirectional networks,"
IEEE Transactions on Automatic Control, Vol. **59**, Issue 1, pp. 48/63, 2014
DOI: 10.1109/TAC.2013.2275891

18. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Atsushi Kato, Hiroshi Morita, Kazuyuki Aihara,
"Distributed parameter modeling and finite-frequency loop-shaping of electromagnetic molding machine,"

Control Engineering Practice, Vol. **21**, Issue 12, pp. 1735/1743, 2013
DOI: 10.1016/j.conengprac.2013.08.003

19. Caterina Thomaseth, Patrick Marc Weber, Thomas Hamm, Kenji Kashima, Nicole Radde,
"Modeling sphingomyelin synthase 1 driven reaction at the Golgi apparatus can explain data by inclusion of a positive feedback mechanism,"
Journal of Theoretical Biology, Vol. **337**, Issue 11, pp. 174/180, 2013
DOI: 10.1016/j.jtbi.2013.08.022

20. **Kenji Kashima**, Yutaka Takahashi, Jun-ichi Imura,
"On the convergence rate of diffusion in the bidirectional Erdös-Rényi networks: an H^2-norm perspective,"
Physica A, Vol. **392**, Issue 21, pp. 5461/5472, 2013
DOI: 10.1016/j.physa.2013.05.057

21. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara,
"Robust bifurcation analysis of systems with dynamic uncertainties,"
International Journal of Bifurcation and Chaos, Vol. **23**, Issue 9, 1350157, 2013
DOI: 10.1142/S0218127413501575

22. **Kenji Kashima**, Reiichiro Kawai,
"On weak approximation of stochastic differential equations through hard bounds by mathematical programming,"
SIAM Journal on Scientific Computing, Vol. **35**, Issue 1, pp. A1/A21, 2013
DOI: 10.1137/110841497

23. **Kenji Kashima**, Yasuyuki Kawamura, Jun-ichi Imura,
"Oscillation analysis of linearly coupled piecewise affine systems: application to spatio-temporal neuron dynamics,"
Automatica, Vol. **47**, Issue 6, pp. 1249/1254, 2011
DOI: 10.1016/j.automatica.2011.02.039

24. **Kenji Kashima**, Reiichiro Kawai,
"A weak approximation of stochastic differential equations with jumps through tempered polynomial optimization,"
Stochastic Models, Vol. **27**, Issue 1, pp. 26/49, 2011
DOI: 10.1080/15326349.2011.542721

25. **Kenji Kashima**, Reiichiro Kawai,
"An optimization approach to weak approximation of stochastic differential equations with jumps,"
Applied Numerical Mathematics, Vol. **61**, Issue 5, pp. 641/650, 2011
DOI: 10.1016/j.apnum.2010.10.012

26. Jun-ichi Imura, **Kenji Kashima**, Masami Kusano, Tsukasa Ikeda, Tomohiro Morohoshi,
"Piecewise affine systems approach to control of biological networks,"
Philosophical Transactions of the Royal Society A, Vol. **368**, No. 1930, pp. 4977/4993, 2010
DOI: 10.1098/rsta.2010.0176

27. **Kenji Kashima**, Jun-ichi Imura,
"Local stability analysis of heterogeneous equilibrium patterns observed in Delta-Notch interaction,"
Journal of the Chinese Institute of Engineers, Vol. **33**, pp. 347/355, 2010 (invited paper)

28. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura,
"Reflection wave suppression in Frenkel-Kontrova model simulation –Analysis based on the GKYP lemma–,"
SICE Journal of Control, Measurement, and System Integration, Vol. **3**, Issue 3, pp. 172/177, 2010

29. Yukihiro Sakai, Hwayeong Yu, Kenji Kashima, Jun-ichi Imura,
"Polynomial optimization approach to stability analysis of boundary controlled 2-dimensional fluid flow,"
SICE Journal of Control, Measurement, and System Integration, Vol. **3**, Issue 1, pp. 20/26, 2010

30. Ravi Gondhalekar, Jun-ichi Imura, **Kenji Kashima**,
"Controlled invariant feasibility – A general approach to enforcing strong feasibility in MPC applied to move-blocking,"
Automatica, Vol. **45**, Issue 12, pp. 2869/2875, 2009
DOI: 10.1016/j.automatica.2009.09.020

31. Kazunori Nishio, **Kenji Kashima**, Jun-ichi Imura,
"Effects of time delay in feedback control of linear quantum systems,"
Physical Review A, **79**, 062105, 2009,
DOI: 10.1103/PhysRevA.79.062105

32. **Kenji Kashima**, Naoki Yamamoto,
"Control of quantum systems despite feedback delay,"
IEEE Transactions on Automatic Control, Vol. **54**, Issue 4, pp. 876/880, 2009
DOI: 10.1109/TAC.2008.2010969

33. **Kenji Kashima**,
"A new expression for the H^2 performance limit based on state-space representation,"
Automatica, Vol. **45**, Issue 1, pp. 283/290, 2009
DOI: 10.1016/j.automatica.2008.07.008

34. **Kenji Kashima**, Yutaka Yamamoto,
"Finite rank criteria for H^∞ control of infinite-dimensional systems,"
IEEE Transactions on Automatic Control, Vol. **53**, Issue 4, pp. 881/893, 2008
DOI: 10.1109/TAC.2008.920230

35. **Kenji Kashima**, Yutaka Yamamoto,
"On standard H^∞ control problems for systems with infinitely many unstable poles,"
Systems and Control Letters, Vol. **57**, Issue 4, pp. 309/314, 2008
DOI: 10.1016/j.sysconle.2007.09.008

36. **Kenji Kashima**, Yutaka Yamamoto, Hitay Özbay,
"Parameterization of suboptimal solutions of the Nehari problem for infinite-dimensional systems,"
IEEE Transactions on Automatic Control, Vol. **52**, Issue 12, pp. 2369/2374, 2007
DOI: 10.1109/TAC.2007.910725

37. **Kenji Kashima**, Yutaka Yamamoto,
"System theory for numerical analysis,"
Automatica, Vol. **43**, Issue 7, pp. 1156/1164, 2007
DOI: 10.1016/j.automatica.2006.12.028

38. **Kenji Kashima**, Hitay Özbay, Yutaka Yamamoto,
"A Hamiltonian-based solution to the mixed sensitivity optimization problem for stable pseudorational plants,"
Systems and Control Letters, Vol. **54**, Issue 11, pp. 1063/1068, 2005
DOI: 10.1016/j.sysconle.2005.03.002

39. **Kenji Kashima**, Yutaka Yamamoto,
"A new characterization of invariant subspace of H^2 and applications to the optimal sensitivity problem,"
Systems and Control Letters, Vol. **54**, Issue 6, pp. 539/545, 2005
DOI: 10.1016/j.sysconle.2004.10.004

40. **Kenji Kashima**, Yutaka Yamamoto, Masaaki Nagahara,
"Optimal wavelet expansion via sampled-data control theory,"
IEEE Signal Processing Letters, Vol. **11**, Issue 2, pp. 79/82, 2004
DOI: 10.1109/LSP.2003.821664

国内論文誌

1. 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

2. 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

3. 塚本　潤，岩井 大輔，**加嶋 健司**,
"分散最適化にもとづく協調型映像投影システムによる投影色補正,"
日本バーチャルリアリティ学会論文誌, Vol. **20**, Issue 2, pp. 143/150, 2015

4. 2016　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

5. **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
DOI: 10.9746/sicetr.50.712

6. 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,"
システム制御情報学会論文誌, Vol. **27**, Issue 10, pp. 405/411, 2014

7. 2014　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—,"
システム制御情報学会論文誌, Vol. **26**, Issue 7, pp. 225/231, 2013

8. 2014　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,"
システム制御情報学会論文誌, Vol. **26**, Issue 5, pp. 174/181, 2013
DOI: 10.5687/iscie.26.174

9. 2015　計測自動制御学会 論文賞
井上 正樹，鈴木 雅康，**加嶋 健司**，井村 順一，合原 一幸,
"ルーリエ系の絶対不安定条件,"
計測自動制御学会論文誌, Vol. **49**, Issue 3, pp. 401/407, 2013

10. 石崎 孝幸，**加嶋 健司**，井村 順一，合原 一幸,
"クラスタ可制御性に基づく動的ネットワークの低次元化,"
計測自動制御学会論文誌, Vol. **48**, Issue 10, pp. 589/598, 2012

11. 織田 知仁，**加嶋 健司**，井村 順一，宮崎 修司，森田　洋，
“大規模テプリッツ型方程式に対する定常反復法の制御理論的考察と磁場解析への応用,”
計測自動制御学会論文誌, Vol. **48**, Issue 7, pp. 441/449, 2012

12. 2013　システム制御情報学会 学会賞 論文賞
加嶋 健司,
“サンプル値 H^2 信号復元にもとづくレビー過程の弱近似,”
システム制御情報学会論文誌, Vol. **24**, Issue 10, pp. 241/249, 2011

13. 石崎 孝幸，**加嶋 健司**，井村 順一，
“単入出力動的ネットワークシステムにおける一次元反応拡散構造の抽出,”
計測自動制御学会論文誌, Vol. **46**, Issue 12, pp. 774/782, 2010

14. 石崎 孝幸，**加嶋 健司**，井村 順一，
“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,”
計測自動制御学会論文誌, Vol. **46**, Issue 10, pp. 615/622, 2010

15. 藤井　奨，裏山 晃史，**加嶋 健司**，井村 順一，黒川 哲明，足立 修一，
“鋼材加熱炉の装入スケジューリングと燃焼制御の同時最適化,”
鉄と鋼, Vol. **96**, Issue 7, pp. 434/442, 2010

16. 2010　計測自動制御学会 論文賞
石崎 孝幸，**加嶋 健司**，井村 順一，加藤　敦, 森田　洋,
“電磁型締め装置の分布定数モデリングと制御,”
計測自動制御学会論文誌, Vol. **45**, Issue 10, pp. 502/511, 2009

17. 西尾 和記，**加嶋 健司**，井村 順一
“量子ノイズレスサブシステムの大域的安定化,”
計測自動制御学会論文誌, Vol. **45**, Issue 9, pp. 459/468, 2009

18. **加嶋 健司**，西尾 和記，
“状態推定遅延を含む 2 次元量子スピン制御系の安定化,”
計測自動制御学会論文誌, Vol. **44**, Issue 7, pp. 558/565, 2008

19. **加嶋 健司**，
“二乗和緩和を用いた遅延存在下の量子スピン制御系設計,”
システム制御情報学会論文誌, Vol. **21**, Issue 4, pp. 111/119, 2008

20. **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,”
計測自動制御学会論文誌, Vol. **43**, Issue 8, pp. 656/662, 2007

21. **加嶋 健司**，
“状態空間表現にもとづく H^2 性能限界の解析表現 –非最小位相特性による最適制御性能の劣化について–,”
計測自動制御学会論文誌, Vol. **42**, Issue 12, pp. 1328/1335, 2006

査読付き国際会議

1. Takuya Ikeda, **Kenji Kashima**,
“Sparse optimal feedback control for continuous-time systems,”
2019 European Control Conf. (ECC), pp. xxx/xxx, 2019
DOI: xxxxx

2. Takuya Ikeda, **Kenji Kashima**,
"Sparsity-constrained controllability maximization with application to time-varying control node selection,"
56th IEEE Conf. Decision and Control (CDC), pp. xxx/xxx, 2018
DOI: xxx

3. Kaito Ito, **Kenji Kashima**,
"Theoretical error bounds for stochastic linearization of feedback systems,"
56th IEEE Conf. Decision and Control (CDC), pp. xxx/xxx, 2018
DOI: 10.1109/CDC.2018.8619319

4. Kazuhiro Shimizu, Hayato Nakada, **Kenji Kashima**,
"Feature extraction of internal dynamics of an engine air path system: Deep autoencoder approach,"
18th IFAC Symposium on System Identification (SYSID 2018), IFAC-PapersOnLine, Vol. **51**, Issue 25, pp. 736/741, 2018
DOI: 10.1016/j.ifacol.2018.09.167

5. Kazuhiro Shimizu, Hayato Nakada, **Kenji Kashima**,
"Experimental study on sparse modeling of a diesel engine air path system,"
2017 IEEE Conference on Control Technology and Applications (CCTA), pp. 1421/1426, 2017
DOI: 10.1109/CCTA.2017.8062659

6. Kentaro Ohki, Hideharu Sugihara, **Kenji Kashima**, Yoshito Ohta,
"Analyzing the effects of transmission line fault on the stochastic model predictive controlled IEEE 30-bus system with uncertain environment,"
2017 IEEE Conference on Control Technology and Applications (CCTA), pp. 1064/0169, 2017
DOI: 10.1109/CCTA.2017.8062600

7. Yuji Nagasawa, **Kenji Kashima**,
"Control-oriented denoising autoencoder: Robustified data-driven model reduction,"
20th IFAC World Congress, 2017
DOI: 10.1016/j.ifacol.2017.08.579

8. Takuya Ikeda, **Kenji Kashima**,
"Path planning and state estimation based on sparsity-in-time,"
20th IFAC World Congress, 2017
DOI: 10.1016/j.ifacol.2017.08.2458

9. **Kenji Kashima**,
"Nonlinear model reduction by deep autoencoder of noise response data,"
55th IEEE Conf. Decision and Control (CDC), pp. 5750/5755, 2016
DOI: 10.1109/CDC.2016.7799153

10. Takuya Ikeda, Masaaki Nagahara, **Kenji Kashima**,
"Consensus by maximum hands-off distributed control with sampled-data state observation,"
55th IEEE Conf. Decision and Control (CDC), pp. 962/966, 2016
DOI: 10.1109/CDC.2016.7798392

11. Jun Tsukamoto, Daisuke Iwai, **Kenji Kashima**,
"Distributed optimization for shadow removal in spatial augmented reality,"
15th IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2016), pp. 147/148, 2016

12. 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

13. Yuki Minami, **Kenji Kashima**,
"Dynamic quantizer design based on serial system decomposition,"
22nd Int'l Symp. on Mathematical Theory of Networks and Systems (MTNS), pp. 577/579, 2016

14. **Kenji Kashima**,
"Optimality of simulation-based nonlinear model reduction: Stochastic controllability perspective,"
2016 American Control Conf. (ACC), pp. 7243/7248, 2016
DOI: 10.1109/ACC.2016.7526816

15. Yuya Tomisawa, Kentaro Ohki, Hideharu Sugihara, **Kenji Kashima**, Yoshito Ohta,
"Power generation scheduling with transmission line thermal constraints: A case study,"
2nd SICE International Symposium on Control Systems 2016, pp. xxx/xxx, 2016

16. **Kenji Kashima**, Hiroki Aoyama, Yoshito Ohta,
"Modeling and linearization of systems under heavy-tailed stochastic noise with application to renewable energy assessment,"
54th IEEE Conf. Decision and Control (CDC), pp. 1852/1857, 2015
DOI: 10.1109/CDC.2015.7402480

17. Yuta Okumura, **Kenji Kashima**, Yoshito Ohta,
"Path integral approach to stochastic optimal control under non-Gaussian white noise,"
Proceedings of the 47th ISCIE International Symposium on Stochastic Systems Theory and Its Applications (SSS'15), pp. 16/19, 2015

18. Naomi Kuze, Daichi Kominami, **Kenji Kashima**, Tomoaki Hashimoto, Masayuki Murata,
"Hierarchical optimal control method for controlling self-organized networks with light-weight cost,"
IEEE GLOBECOM 2015, pp. 1/7, 2015
DOI: 10.1109/GLOCOM.2015.7417665

19. Jun Tsukamoto, Daisuke Iwai, **Kenji Kashima**,
"Radiometric compensation for cooperative distributed multi-projection system through 2-DOF distributed control,"
14th IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2015), pp. 1221/1229, 2015

20. **Kenji Kashima**, Daisuke Inoue,
"Replay attack detection in control systems with quantized signals,"
2015 European Control Conf. (ECC), pp. 782/787, 2015
DOI: 10.1109/ECC.2015.7330637

21. **Kenji Kashima**, Yusuke Umezu,
"Delayed feedback selective pattern formation in reaction-diffusion systems,"
10th Asian Control Conference, pp. 1/6, 2015

22. **Kenji Kashima**, Hiroki Aoyama, Yoshito Ohta,
"On stochastic linearization of feedback systems driven by stable processes,"
1st SICE International Symposium on Control Systems 2015, pp. xxx/xxx, 2015

23. Takayuki Yoshida, Masakazu Kato, **Kenji Kashima**,
"Probabilistic evaluation method of interconnectable capacity for wind power generation using actual data,"
International Conference on Renewable Energy and Power Quality Journal (ICREPQ'15), pp. xxx/xxx, 2015

24. Masaki Inoue, Jun-ichi Imura, Takayuki Arai, **Kenji Kashima**, Kazuyuki Aihara,
"Saddle-node bifurcation and its robustness analysis: A mechanism for inducing pluripotency in stem cell,"
53rd IEEE Conf. Decision and Control (CDC), pp. 5973/5978, 2014
DOI: 10.1109/CDC.2014.7040324

25. Naomi Kuze, Daichi Kominami, **Kenji Kashima**, Tomoaki Hashimoto, Masayuki Murata,
"Enhancing convergence with optimal feedback for controlled self-organizing networks,"
IEEE 80th Vehicular Technology Conference (IEEE VTC 2014-fall), pp. 1/7, 2014
DOI: 10.1109/VTCFall.2014.6965964

26. Yosuke Kotani, Hitoshi, Yamao, Hitoshi, Masatomo Kishi, **Kenji Kashima**,
"Output feedback H^∞ preview control of railroad vehicle active suspension,"
SICE Annual Conf. 2014, pp. 1535/1538, 2014

27. Masaki Inoue, Takayuki Arai, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara
"Robustness analysis of genetic circuits constructed by bottom-up strategy,"
19th IFAC World Congress, pp. 1736/1741, 2014

28. **Kenji Kashima**, Daisuke Inoue
"Stationary performance evaluation of control systems with random dither quantization,"
2014 European Control Conf. (ECC), pp. 1625/1630, 2014

29. Masaki Inoue, Takayuki Arai, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara
"Robust stability and instability of nonlinear feedback system with uncertainty-dependent equilibrium,"
2014 European Control Conf. (ECC), pp. 1486/1491, 2014

30. Tomonori Sadamoto, **Kenji Kashima**, Morita Hiroshi, Mizuno Hiroyuki,
"Nonlinear reduced order modeling of plasticization cylinders,"
2014 American Control Conf. (ACC), pp. 129/134, 2014

31. Takayuki Ishizaki, Henrik Sandberg, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Dissipativity-preserving model reduction based on generalized singular perturbation,"
52nd IEEE Conf. Decision and Control (CDC), pp. 5540/5545, 2013

32. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara,
"Robust bifurcation analysis based on the Nyquist stability criterion,"
52nd IEEE Conf. Decision and Control (CDC), pp. 1768/1773, 2013

33. Yusuke Umezu, **Kenji Kashima**,
"On reduced model for pattern control in a chemotaxis-diffusion-growth system,"
SICE Annual Conf. 2013, pp. xxx/xxx, 2013

34. Takayuki Ishizaki, Henrik Sandberg, Karl Henrik Johansson, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Singular perturbation approximation of semistable linear systems,"
2013 European Control Conf. (ECC), pp. 4508/4513, 2013

35. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Takayuki Arai, Kazuyuki Aihara,
"An instability condition for uncertain systems toward robust bifurcation analysis,"
2013 European Control Conf. (ECC), pp. 3264/3269, 2013

36. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara,
"Instability of uncertain large-scale networks,"
9th Asian Control Conference, 2013

37. **Kenji Kashima**, Toshiyuki Ogawa, Tatsunari Sakurai,
"Feedback stabilization of non-uniform spatial pattern in reaction-diffusion systems,"
2013 American Control Conf. (ACC), pp. 3759/3764, 2013

38. Takayuki Ishizaki, Henrik Sandberg, Karl H. Johansson, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Structured model reduction of interconnected linear systems based on singular perturbation,"
2013 American Control Conf. (ACC), pp. 5544/5549, 2013

39. Masaki Inoue, Jun-ichi Imura, **Kenji Kashima**, Kazuyuki Aihara,
"Instability criteria for Lur'e systems toward oscillation analysis of uncertain gene networks,"
2013 American Control Conf. (ACC), pp. 4086/4091, 2013

40. Takayuki Ishizaki, **Kenji Kashima**, Antoine Girard, Jun-ichi Imura, Luonan Chen, Kauzyuki Aihara,
"Clustering-based H^2-state aggregation of positive networks and its application to reduction of chemical master equation,"
51st IEEE Conf. Decision and Control (CDC), pp. 4175/4180, 2012

41. **Kenji Kashima**, Tomohito Oda, Jun-ichi Imura,
"Control theoretic approach to stationary iterative methods for large-scale Toeplitz-type equations,"
2012 American Control Conf. (ACC), pp. 1500/1506, 2012

42. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Kauzyuki Aihara,
"Model reduction of multi-input dynamical networks based on clusterwise controllability,"
2012 American Control Conf. (ACC), pp. 2301/2306, 2012

43. **Kenji Kashima**, Antonis Papachristodoulou, Frank Allgöwer,
"A linear multi-agent systems approach to diffusively coupled piecewise affine systems: delay robustness,"
50th IEEE Conf. Decision and Control and European Control Conf., pp. 603/608, 2011

44. Takayuki Ishizaki, Yukihiro Sakai, **Kenji Kashima**, Jun-ichi Imura,
"Hierarchical decentralized observer design for linearly coupled network systems,"
50th IEEE Conf. Decision and Control and European Control Conf., pp. 7831/7836, 2011

45. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Reaction-diffusion clustering of single-input dynamical networks,"
50th IEEE Conf. Decision and Control and European Control Conf., pp. 7837/7842, 2011

46. 2011 SICE Annual Conference International Award
Kenji Kashima, Antonis Papachristodoulou, Frank Allgöwer,
"Connection profile robustness in a heterogeneous network of piecewise affine FitzHugh-Nagumo models,"
SICE Annual Conf. 2011, pp. 2093/2098, 2011

47. Tomohito Oda, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Iterative method design for Toeplitz-type linear equations: spatially invariant system perspective,"
3rd International Conference on Control and Optimization With Industrial Applications (COIA), 2011

48. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Network clustering for SISO linear dynamical networks via reaction-diffusion transformation,"
2011 IFAC World Congress, pp. 5639/5644, 2011

49. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Kazuyuki Aihara,
"Model order reduction for MIMO linear dynamical networks via reaction-diffusion transformation,"
2011 American Control Conf. (ACC), pp. 5019/5024, 2011

50. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura,
"Extraction of 1-dimensional reaction-diffusion structure in SISO linear dynamical networks,"
49th IEEE Conf. Decision and Control (CDC), pp. 5350/5355, 2010

51. Ahmet Cetinkaya, **Kenji Kashima**, Tomohisa Hayakawa,
"Stability and stabilization of switching stochastic differential equations subject to probabilistic state jumps,"
49th IEEE Conf. Decision and Control (CDC), pp. 2378/2383, 2010

52. Susumu Fujii, Koji Urayama, **Kenji Kashima**, Jun-ichi Imura, Tetsuaki Kurokawa, Shuichi Adachi,
"Machine-based modeling of conveyor-type flowshops with application to scheduling and temperature control in slab reheating furnace,"
2010 IEEE Multi-Conference on Systems and Control (MSC), pp. 2059/2064, 2010

53. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura, Atushi Katoh, Hiroshi Morita,
"PI control system design for electromagnetic molding machine based on linear programing,"
2010 IEEE Multi-Conference on Systems and Control (MSC), pp. 2415/2420, 2010

54. Takayuki Ishizaki, **Kenji Kashima**, Jun-ichi Imura,
"Distributed parameter modeling and control of electromagnetic molding machine,"
2010 American Control Conf. (ACC), pp. 3512/3517, 2010

55. Ahmet Cetinkaya, **Kenji Kashima**, Tomohisa Hayakawa,
"Stability of stochastic systems with probabilistic mode switching and state jump,"
2010 American Control Conf. (ACC), 4046/4051, 2010

56. **Kenji Kashima**, Reiichiro Kawai,
"An optimization approach to weak approximation of Lévy-driven stochastic differential equations with application to option pricing,"
48th IEEE Conf. Decision and Control (CDC), 3673/3678, 2009

57. Ravi Gondhalekar, Jun-ichi Imura, **Kenji Kashima**,
"Rigorous determination of maximum controlled invariant feasible sets,"
2009 European Control Conf. (ECC), 2821/2826, 2009

58. **Kenji Kashima**, Reiichiro Kawai,
"Polynomial programming approach to weak approximation of Lévy-driven stochastic differential equations with application to option pricing,"
ICROS-SICE Int'l Joint Conf. 2009 (ICCAS-SICE 2009), 3902/3907, 2009

59. Sompach Kongviwattanakul, **Kenji Kashima**, Jun-ichi Imura,
"MPC of 2D channel flow via staggered grid,"
ICROS-SICE Int'l Joint Conf. 2009 (ICCAS-SICE 2009), 2144/2149, 2009

60. Gou Nishida, Daiji Ichishima, **Kenji Kashima**, Kenji Fujimoto, Masaki Yamakita, Bernhard Maschke, Ryojun Ikeura,
"Scaling reduction of port-Hamiltonian systems for numerical calculation,"
ICROS-SICE Int'l Joint Conf. 2009 (ICCAS-SICE 2009), 686/690, 2009

61. Kazunori Nishio, **Kenji Kashima**, Jun-ichi Imura,
"Global feedback stabilization of quantum noiseless subsystems,"
2009 American Control Conf. (ACC), 1499/1504, 2009

62. Kazunori Nishio, **Kenji Kashima**, Jun-ichi Imura,
"Optimal control of linear quantum systems despite feedback delay,"
47th IEEE Conf. Decision and Control (CDC), 835/840, 2008

63. Kazunori Nishio, **Kenji Kashima**, Jun-ichi Imura,
"Optimal control of linear quantum systems despite feedback delay,"
International Mini-Workshop: Theoretical Foundations and Applications of Quantum Control, 2008

64. Kazunori Nishio, **Kenji Kashima**, Jun-ichi Imura,
"Feedback control of noiseless subsystems,"
9th Int'l Conf. on Quantum Communication, Measurement and Computing (QCMC), 2008

65. Kazunori Nishio, **Kenji Kashima**, Jun-ichi Imura,
"Feedback control of noiseless subsystems,"
The Principles and Applications of Control in Quantum Systems, 2008

66. Hwayeong Yu, **Kenji Kashima**, Jun-ichi Imura,
"Stability analysis of 2-dimensional fluid flow based on sum of squares relaxation,"
SICE Annual Conf. 2008, 3321/3326, 2008

67. **Kenji Kashima**,
"Semi-algebraic problem approach for stability analysis of a class of nonlinear stochastic delay system,"
2008 American Control Conf. (ACC), 5258/5263, 2008

68. **Kenji Kashima**, Kazunori Nishio,
"Global stabilization of two dimensional quantum spin systems despite estimation delay,"
46th IEEE Conf. Decision and Control (CDC), 6352/6357, 2007

69. **Kenji Kashima**,
"A new expression for the H^2 performance limit based on state-space representation,"
2007 European Control Conf. (ECC), 4474/4479, 2007

70. **Kenji Kashima**, Takashi Yamamoto, Yutaka Yamamoto,
"A Smith-type predictor for non-minimum phase infinite-dimensional plants and its dual structure,"
45th IEEE Conf. Decision and Control (CDC), 4706/4711, 2006

71. Kazunori Nishio, **Kenji Kashima**,
"A new expression for the discrete-time H^2 performance limit based on state-space representation,"
SICE-ICCAS Int'l Joint Conf., 3959/3962, 2006

72. **Kenji Kashima**, Yutaka Yamamoto, Hitay Özbay,
"Parameterization of sub-optimal interpolants for the Nehari problem,"
17th Int'l Symp. on Mathematical Theory of Networks and Systems (MTNS), 1676/1679, 2006

73. **Kenji Kashima**, Yutaka Yamamoto,
"General solution to standard H^∞ control problems for a class of infinite-dimensional systems,"
Joint 44th IEEE Conf. Decision and Control (CDC) and 2005 European Control Conf. (ECC), 2457/2462, 2005

74. **Kenji Kashima**, Yutaka Yamamoto,
"On standard H^∞ control problems for systems with infinitely many unstable poles,"
Int'l Workshop on Control of Infinite-dimensional Systems, 2005

75. **Kenji Kashima**, Shinjiro Ashida, Yutaka Yamamoto,
"System theory for numerical analysis,"
16th IFAC World Congress, We-E09-TO/6, 2005

76. **Kenji Kashima**, Hitay Özbay, Yutaka Yamamoto,
"Hamiltonian-based solution to the mixed sensitivity problem for stable pseudorational plants,"
16th Int'l Symp. on Mathematical Theory of Networks and Systems (MTNS), WP5-3, 2004

77. **Kenji Kashima**, Yutaka Yamamoto,
"Equivalent characterization of invariant subspaces of H^2 and applications to optimal sensitivity problem,"
42nd IEEE Conf. Decision and Control (CDC), 1824/1829, 2003

78. **Kenji Kashima**, Hitay Özbay, Yutaka Yamamoto,
"On the mixed sensitivity optimization problem for stable pseudorational plants,"
IFAC Workshop on Time-Delay Systems, TM1-1, 2003

79. **Kenji Kashima**, Yutaka Yamamoto, Masaaki Nagahara,
"Optimal wavelet expansion via sampled-data control theory,"
40th IEEE Conf. Decision and Control (CDC), 4788/4793, 2001

【原著・編著書】

1. Hitay Özbay, Suat Gümüşsoy, **Kenji Kashima** and Yutaka Yamamoto,
"Frequency Domain Techniques for H^∞ Control of Distributed Parameter Systems,"
SIAM, 2018

2. **Kenji Kashima**, Yasuyuki Kawamura and Jun-ichi Imura,
"Oscillation analysis of linearly coupled PWA systems,"
Proceedings of the 13th ACM International Conference on Hybrid Systems: Computation and Control, HSCC 2010 (ISBN 978-1605589558), K. H. Johansson and W. Yi, Eds. ACM, 2010, pp. 121/130

3. **Kenji Kashima**, Reiichiro Kawai,
"An optimization approach to weak approximation of Lévy-driven stochastic differential equations,"
Perspectives in Mathematical System Theory, Control, and Signal Processing: A Festschrift in Honor of Yutaka Yamamoto on the Occasion of his 60th Birthday (Lecture Notes in Control and Information Sciences 398, (ISBN 978-3540939177), J. C. Willems, S. Hara, Y. Ohta and H. Fujioka, Eds. Springer, 2010, pp. 263/272

【総説・学術資料等】

1. **加嶋 健司**
"総論 機械学習と調和する制御理論を模索して,"
計測と制御, Vol. **58**, Issue 3, pp. 153/155, 2018
DOI: 10.11499/sicejl.58.153

2. 佐々木 智丈, **加嶋 健司**
"制御工学者のための強化学習入門,"
計測と制御, Vol. **58**, Issue 3, pp. 182/188, 2018
DOI: 10.11499/sicejl.58.182

3. **加嶋 健司**
"ディザ量子化制御系の線形解析,"
システム／制御／情報, Vol. **60**, Issue 5, pp. 193/198, 2016
DOI: 10.11509/isciesci.60.5$_1$93

4. 岸田 昌子，**加嶋 健司**
"反応移流拡散系の制御と安定性,"
計測と制御, Vol. **55**, Issue 4, pp. 350/355, 2016
DOI: 10.11499/sicejl.55.350

5. 大木 健太郎，**加嶋 健司**
“確率的な現象とその多様な捉え方,”
計測と制御, Vol. **52**, Issue 4, pp. 348/353, 2013
DOI: 10.11499/sicejl.52.348

6. **加嶋 健司**，河合 玲一郎
“レビー過程—白色雑音の一般化,”
システム／制御／情報, Vol. **55**, Issue 12, pp. 505/512, 2011
DOI: 10.11509/isciesci.55.12$_5$05

招待講演

1. **Kenji Kashima**,
“Guided Self-Organization in Engineering and Science,”
Keynote Speech by 2016 SICE Takeda Award Winner, Tsukuba, Japan, 2016

2. **Kenji Kashima**,
“Selective Pattern Formation of Reaction-Diffusion Systems,”
9th Workshop on Control of Distributed Parameter Systems, Beijing, China, 2015

3. **Kenji Kashima**,
“Smith-Predictor type Structure for a Class of Infinite-Dimensional Systems: Optimal Control and Performance Limitation Formula,”
Semi-Plenary Talk in *19th. Int'l Symp. on Mathematical Theory of Networks and Systems (MTNS)*, Budapest, Hungary, 2010

1. **加嶋 健司**,
“大規模ネットワークの可制御性,”
, 電子情報通信学会 2017 年ソサイエティ大会, 2017

2. **加嶋 健司**,
“モデル低次元化の基礎理論と研究動向,”
第 59 回システム制御情報学会研究発表講演会，チュートリアル講演，大阪, 2015

3. **加嶋 健司**,
“線形系の合意形成と反応拡散系におけるパターン形成,”
第 56 回システム制御情報学会研究発表講演会，招待講演，京都, 2012

4. **加嶋 健司**,
“動的システムの空間構造：均質性とスケーラビリティ,”
第 12 回制御部門大会，パイオニア賞受賞記念講演，奈良, 2012

5. **加嶋 健司**,
“非線形制御理論にもとづく量子制御系の解析・設計,”
動的システムの情報論 (9) 「大自由度非線形系の制御：生体現象を例にして」（統計数理研究所共同研究集会），東京, 2009

6. **加嶋 健司**,
“量子力学系のフィルタリングと制御,”
第 2 回制御理論ワーキングセミナー（計測自動制御学会中部支部主催）, 名古屋，2008

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 (Netherland), 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 モデルベースト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）