Christopher Kellett

List of Publications by Year in descending order

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		279798	265206
116	2,105	23	42
papers	citations	h-index	g-index
116	116	116	1536
110	110	110	1330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Asymmetric Stabilizer Based on Scheduling Shifted Coordinates for Single-Input Linear Systems With Asymmetric Saturation., 2022, 6, 746-751.		3
2	Robust Output Feedback Stabilization of MIMO Invertible Nonlinear Systems With Output-Dependent Multipliers. IEEE Transactions on Automatic Control, 2022, 67, 2989-2996.	5.7	4
3	Robust implementable regulator design of linear systems with non-vanishing measurements. Automatica, 2022, 143, 110418.	5.0	6
4	Explicit Construction of Stabilizing Robust Avoidance Controllers for Linear Systems With Drift. IEEE Transactions on Automatic Control, 2021, 66, 595-610.	5.7	6
5	Strict dissipativity for discrete time discounted optimal control problems. Mathematical Control and Related Fields, 2021, 11, 771.	1.1	5
6	On continuous-time infinite horizon optimal control—Dissipativity, stability, and transversality. Automatica, 2021, 134, 109907.	5.0	11
7	Infiniteâ€horizon optimal control – Asymptotics and dissipativity. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0
8	Towards price-based predictive control of a small-scale electricity network. International Journal of Control, 2020, 93, 40-61.	1.9	9
9	Adaptive Semiglobal Nonlinear Output Regulation: An Extended-State Observer Approach. IEEE Transactions on Automatic Control, 2020, 65, 2670-2677.	5.7	6
10	Feedback, dynamics, and optimal control in climate economics. Annual Reviews in Control, 2019, 47, 7-20.	7.9	33
11	Adaptive Tracking Control via Immersion and Invariance: An (i)ISS Perspective. , 2019, , .		2
12	Uniting control laws: On obstacle avoidance and global stabilization of underactuated linear systems. , 2019, , .		1
13	Complete control Lyapunov functions: Stability under state constraints. IFAC-PapersOnLine, 2019, 52, 358-363.	0.9	4
14	Numerical Calculation of Nonsmooth Control Lyapunov Functions via Piecewise Affine Approximation. IFAC-PapersOnLine, 2019, 52, 370-375.	0.9	1
15	Adaptive Nonlinear Regulator Design via Immersion and Invariance. IFAC-PapersOnLine, 2019, 52, 592-597.	0.9	1
16	A Small-Gain Theorem in the Absence of Strong ilSS. IEEE Transactions on Automatic Control, 2019, 64, 3897-3904.	5.7	6
17	Convergence Properties for Discrete-Time Nonlinear Systems. IEEE Transactions on Automatic Control, 2019, 64, 3415-3422.	5 . 7	22
18	Stabilization of strictly dissipative discrete time systems with discounted optimal control. Automatica, 2018, 93, 311-320.	5.0	23

#	Article	IF	CITATIONS
19	Hierarchical distributed ADMM for predictive control with applications in power networks. IFAC Journal of Systems and Control, 2018, 3, 10-22.	1.7	39
20	Complete Instability of Differential Inclusions using Lyapunov Methods. , 2018, , .		4
21	Unsafe Point Avoidance in Linear State Feedback. , 2018, , .		8
22	MPC-DICE: An open-source Matlab implementation of receding horizon solutions to DICE âž âŽTF acknowledges support from the Daimler Benz Foundation. The authors are supported by the Australian Research Council under ARC-DP180103026 IFAC-PapersOnLine, 2018, 51, 120-125.	0.9	4
23	Towards a FAIR-DICE IAM: Combining DICE and FAIR Models ⎠âŽTF acknowledges support from the Daimler Benz Foundation. TF, CMK, and SRW are supported by the Australian Research Council under ARC-DP180103026 IFAC-PapersOnLine, 2018, 51, 126-131.	0.9	6
24	Numerical Construction of Nonsmooth Control Lyapunov Functions. Lecture Notes in Mathematics, 2018, , 343-373.	0.2	2
25	Residential load and rooftop PV generation: an Australian distribution network dataset. International Journal of Sustainable Energy, 2017, 36, 787-806.	2.4	129
26	Qualitative equivalences of ISS and <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi> </mml:mi></mml:mrow><mml:mrow><mml:mi>p<td>mi><td>:m⁵ow></td></td></mml:mi></mml:mrow></mml:msub></mml:math>	mi> <td>:m⁵ow></td>	:m ⁵ ow>
27	On the Relation Between Turnpike Properties for Finite and Infinite Horizon Optimal Control Problems. Journal of Optimization Theory and Applications, 2017, 173, 727-745.	1.5	14
28	Relationships Between Subclasses of Integral Input-to-State Stability. IEEE Transactions on Automatic Control, 2017, 62, 2476-2482.	5.7	3
29	Impact of Climate Model Parametric Uncertainty in an MPC Implementation of the DICE Integrated Assessment Model. IFAC-PapersOnLine, 2017, 50, 959-965.	0.9	3
30	A new formulation of small-gain theorem without imposing strong iISS with respect to Disturbances on components. , 2017, , .		3
31	Feedback design using nonsmooth control Lyapunov functions: A numerical case study for the nonholonomic integrator. , 2017, , .		14
32	Transient climate response in the DICE integrated assessment model of climate-economy. , 2016, , .		2
33	Analysis of discrete-time nonlinear â,," <inf>2</inf> -gain bounds via dynamic programming. , 2016, , .		O
34	Incremental stability properties for discrete-time systems. , 2016, , .		16
35	On a discounted notion of strict dissipativity**C.M. Kellett and L. Grüne are supported by Australian Research Council Discovery Project DP160102138. L. Grüne is supported by the Deutsche Forschungsgemeinschaft, Grant GR 1569/13-1. The paper was written while L. Grüne was visiting the University of Newcastle IFAC-PapersOnLine. 2016. 49. 247-252.	0.9	8
36	ilSS and ISS dissipation inequalities: preservation and interconnection by scaling. Mathematics of Control, Signals, and Systems, 2016, 28, 1.	2.3	11

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37	Input-to-State Stability, Integral Input-to-State Stability, and <inline-formula> <tex-math notation="LaTeX">\${cal L}_{2} \$</tex-math></inline-formula> -Gain Properties: Qualitative Equivalences and Interconnected Systems. IEEE Transactions on Automatic Control, 2016, 61, 3-17.	5.7	28
38	A Distributed Optimization Algorithm for the Predictive Control of Smart Grids. IEEE Transactions on Automatic Control, 2016, 61, 3898-3911.	5.7	55
39	Central versus localized optimization-based approaches to power management in distribution networks with residential battery storage. International Journal of Electrical Power and Energy Systems, 2016, 80, 396-406.	5.5	55
40	Nonlinear Scaling of (i)ISS-Lyapunov Functions. IEEE Transactions on Automatic Control, 2016, 61, 1087-1092.	5.7	18
41	Model Predictive Control of Residential Energy Systems Using Energy Storage and Controllable Loads. Mathematics in Industry, 2016, , 617-623.	0.3	3
42	Equivalences of Stability Properties for Discrete-Time Nonlinear Systems. IFAC-PapersOnLine, 2015, 48, 772-777.	0.9	1
43	AnsÃæe zur modellprÃdiktiven Regelung der longitudinalen Strahldynamik in Synchrotronen. Automatisierungstechnik, 2015, 63, 621-632.	0.8	0
44	Preservation and interconnection of iISS and ISS dissipation inequalities by scalingâ—â—The work was supported in part by JSPS KAKENHI Grant Number 26420422. The work of Kellett was supported by the Australian Research Council under FT1101000746 IFAC-PapersOnLine, 2015, 48, 766-771.	0.9	5
45	Computation of continuous and piecewise affine Lyapunov functions for discrete-time systems. Journal of Difference Equations and Applications, 2015, 21, 486-511.	1.1	7
46	Input-to-state stability with respect to two measurement functions: Discrete-time systems., 2015,,.		6
47	Nonlinear model predictive controller design for extreme load mitigation in transition operation region in wind turbines. , $2015, \ldots$		10
48	A receding horizon control approach to estimating the social cost of carbon in the presence of emissions and temperature uncertainty. , 2015 , , .		12
49	Feasibility of 2 $\$$ #x00B0;C as a post-2020 warming threshold via input-constrained optimal control. , 2015, , .		1
50	Predictive control of a Smart Grid: A distributed optimization algorithm with centralized performance properties. , 2015 , , .		5
51	Distributed and Decentralized Control of Residential Energy Systems Incorporating Battery Storage. IEEE Transactions on Smart Grid, 2015, 6, 1914-1923.	9.0	162
52	Scheduling residential battery storage with solar PV: Assessing the benefits of net metering. Applied Energy, 2015, 155, 881-891.	10.1	86
53	Computation of Lyapunov functions for systems with multiple local attractors. Discrete and Continuous Dynamical Systems, 2015, 35, 4019-4039.	0.9	24
54	An optimization-based approach to scheduling residential battery storage with solar PV: Assessing customer benefit. Renewable Energy, 2015, 75, 123-134.	8.9	122

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55	Classical converse theorems in Lyapunov's second method. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 2333-2360.	0.9	62
56	Computing continuous and piecewise affine lyapunov functions for nonlinear systems. Journal of Computational Dynamics, 2015, 2, 227-246.	1.1	17
57	Computation of Lyapunov functions for discrete-time systems using the Yoshizawa construction. , 2014, , .		6
58	Predictive control for longitudinal beam dynamics in heavy ion synchrotrons. , 2014, , .		2
59	Computation of continuous and piecewise affine Lyapunov functions by numerical approximations of the Massera construction., 2014,,.		19
60	Bayesian dynamic system estimation. , 2014, , .		3
61	Nonlinear systems with nonlinear & amp; #x2112; < inf & gt; 2< /inf & gt; -gain., 2014, , .		2
62	Optimal coding functions for pairwise message sharing on finite-field multi-way relay channels. , 2014, , .		1
63	On the capacity of the binaryâ€symmetric parallelâ€relay network. Transactions on Emerging Telecommunications Technologies, 2014, 25, 217-230.	3.9	7
64	Continuous and piecewise affine Lyapunov functions using the Yoshizawa construction. , 2014, , .		15
65	ISS-Lyapunov Functions for Discontinuous Discrete-Time Systems. IEEE Transactions on Automatic Control, 2014, 59, 3098-3103.	5.7	33
66	A compendium of comparison function results. Mathematics of Control, Signals, and Systems, 2014, 26, 339-374.	2.3	150
67	Distributed Control of Residential Energy Systems using a Market Maker. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11641-11646.	0.4	9
68	Nonlinear L2-gain verification for bilinear systems. , 2014, , .		1
69	Offset-free output feedback predictive control for longitudinal beam dynamics in heavy ion synchrotrons. , 2014, , .		О
70	Stability of (integral) input-to-state stable interconnected nonlinear systems via qualitative equivalences. , 2013, , .		1
71	An optimization-based approach for assessing the benefits of residential battery storage in conjunction with solar PV. , 2013, , .		17
72	The Three-User Finite-Field Multi-Way Relay Channel with Correlated Sources. IEEE Transactions on Communications, 2013, 61, 3125-3135.	7.8	7

#	Article	IF	Citations
73	Input-to-State Stability, Integral Input-to-State Stability, and Unbounded Level Sets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 38-43.	0.4	4
74	The Half-Duplex AWGN Single-Relay Channel: Full Decoding or Partial Decoding?. IEEE Transactions on Communications, 2012, 60, 3156-3160.	7.8	5
75	A weak L <inf>2</inf> -gain property for nonlinear systems. , 2012, , .		5
76	A generalization of Input-to-State Stability. , 2012, , .		5
77	A Project-Based Learning Approach to Programmable Logic Design and Computer Architecture. IEEE Transactions on Education, 2012, 55, 378-383.	2.4	29
78	On the Equal-Rate Capacity of the AWGN Multiway Relay Channel. IEEE Transactions on Information Theory, 2012, 58, 5761-5769.	2.4	33
79	Nonlinear -gain verification for nonlinear systems. Systems and Control Letters, 2012, 61, 563-572.	2.3	8
80	On achievable rate regions of the asymmetric AWGN two-way relay channel. , 2011, , .		3
81	State Feedback Controller Synthesis to Achieve a Nonlinear L2-gain Property. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11061-11066.	0.4	1
82	The Capacity Region of Multiway Relay Channels Over Finite Fields With Full Data Exchange. IEEE Transactions on Information Theory, 2011, 57, 3016-3031.	2.4	62
83	Joint channelâ€network coding strategies for networks with lowâ€complexity relays. European Transactions on Telecommunications, 2011, 22, 396-406.	1.2	6
84	The finite field multi-way relay channel with correlated sources: The three-user case., 2011,,.		2
85	Belief propagation as a dynamical system: the linear case and open problems. IET Control Theory and Applications, 2010, 4, 1188-1200.	2.1	11
86	Connection between cooperative positive systems and integral input-to-state stability of large-scale systems. Automatica, 2010, 46, 1019-1027.	5.0	62
87	A Bounded Real Lemma for nonlinear ℒ <inf>2</inf> -gain. , 2010, , .		3
88	The capacity of a class of multi-way relay channels. , 2010, , .		1
89	Functional-decode-forward for the general discrete memoryless two-way relay channel. , 2010, , .		3
90	Nonlinear ℒ <inf>2</inf> -gain analysis via a cascade., 2010,,.		9

#	Article	IF	Citations
91	Capacity Theorems for the AWGN multi-way relay channel. , 2010, , .		38
92	An optimal coding strategy for the binary multi-way relay channel. IEEE Communications Letters, 2010, 14, 330-332.	4.1	57
93	The binary-symmetric parallel-relay network. , 2010, , .		1
94	Achievable rate regions of the butterfly network with noisy links and end-to-end error correction. , 2009, , .		1
95	Integral input-to-state stability of interconnected iISS systems by means of a lower-dimensional comparison system., 2009,,.		2
96	Bifurcations in iterative decoding and root locus plots. IET Control Theory and Applications, 2008, 2, 1086-1093.	2.1	0
97	A dynamic programming approach to the approximation of nonlinear L <inf>2</inf> -gain., 2008,,.		11
98	On the Dynamics of TCP's Higher Moments. IEEE Communications Letters, 2007, 11, 210-212.	4.1	3
99	On AIMD Congestion Control in Multiple Bottleneck Networks. IEEE Communications Letters, 2007, 11, 631-633.	4.1	3
100	A non-invasive method for link upgrade planning using coarse-grained measurements. IEEE Communications Letters, 2007, 11, 1037-1039.	4.1	0
101	Joint network and channel coding for cooperative networks. , 2007, , .		2
102	Sufficient conditions for robustness of \$\$mathcal{K}mathcal{L}\$\$ -stability for difference inclusions. Mathematics of Control, Signals, and Systems, 2007, 19, 183-205.	2.3	7
103	Adaptive tuning of drop-tail buffers for reducing queueing delays. IEEE Communications Letters, 2006, 10, 570-572.	4.1	6
104	Fairness and Convergence Results for Additive-Increase Multiplicative-Decrease Multiple-Bottleneck Networks. , 2006, , .		4
105	Bifurcations and EXIT charts for the Binary Erasure Channel. , 2006, , .		0
106	Sizing Internet Router Buffers, Active Queue Management, and the Lur'e Problem., 2006, , .		12
107	Root Locus Plots and Iterative Decoding. , 2006, , .		0
108	STABILITY RESULTS FOR NETWORKED CONTROL SYSTEMS SUBJECT TO PACKET DROPOUTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 73-78.	0.4	4

#	ARTICLE	IF	CITATION
109	On the Robustness of \$mathcalKL\$-stability for Difference Inclusions: Smooth Discrete-Time Lyapunov Functions. SIAM Journal on Control and Optimization, 2005, 44, 777-800.	2.1	87
110	Discrete-time asymptotic controllability implies smooth control-Lyapunov function. Systems and Control Letters, 2004, 52, 349-359.	2.3	44
111	Smooth Lyapunov functions and robustness of stability for difference inclusions. Systems and Control Letters, 2004, 52, 395-405.	2.3	107
112	Further Results on Robustness of (Possibly Discontinuous) Sample and Hold Feedback. IEEE Transactions on Automatic Control, 2004, 49, 1081-1089.	5.7	33
113	Weak Converse Lyapunov Theorems and Control-Lyapunov Functions. SIAM Journal on Control and Optimization, 2004, 42, 1934-1959.	2.1	44
114	Nonlinear control tools for low thrust orbital transfer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 79-86.	0.4	8
115	Robustness of discontinuous feedback via sample and hold control. , 2002, , .		7
116	Results on discrete-time control-lyapunov functions. , 0, , .		6