

Boumediene Hamzi

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Learning dynamical systems from data: A simple cross-validation perspective, part I: Parametric kernel flows. <i>Physica D: Nonlinear Phenomena</i> , 2021, 421, 132817.	2.8	44
2	Analysis and Control of Hopf Bifurcations. <i>SIAM Journal on Control and Optimization</i> , 2004, 42, 2200-2220.	2.1	41
3	Nonlinear discrete-time control of systems with a Naimark-Sacker bifurcation. <i>Systems and Control Letters</i> , 2001, 44, 245-258.	2.3	32
4	Kernel Methods for the Approximation of Nonlinear Systems. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 2460-2492.	2.1	28
5	Kernel-Based Approximation of the Koopman Generator and Schrödinger Operator. <i>Entropy</i> , 2020, 22, 722.	2.2	26
6	Ignored input dynamics and a new characterization of control Lyapunov functions. <i>Automatica</i> , 2001, 37, 831-841.	5.0	20
7	The Controlled Center Dynamics. <i>Multiscale Modeling and Simulation</i> , 2005, 3, 838-852.	1.6	19
8	The controlled center dynamics of discrete time control bifurcations. <i>Systems and Control Letters</i> , 2006, 55, 585-596.	2.3	13
9	Local modal participation analysis of nonlinear systems using Poincaré linearization. <i>Nonlinear Dynamics</i> , 2020, 99, 803-811.	5.2	11
10	Kernel methods for center manifold approximation and a weak data-based version of the Center Manifold Theorem. <i>Physica D: Nonlinear Phenomena</i> , 2021, 427, 133007.	2.8	10
11	Approximation of Lyapunov functions from noisy data. <i>Journal of Computational Dynamics</i> , 2020, 7, 57-81.	1.1	10
12	A Characterization of Normal Forms for Control Systems. <i>Journal of Dynamical and Control Systems</i> , 2015, 21, 273-284.	0.8	9
13	Dimensionality Reduction of Complex Metastable Systems via Kernel Embeddings of Transition Manifolds. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	2.1	9
14	Kernel methods for the approximation of some key quantities of nonlinear systems. <i>Journal of Computational Dynamics</i> , 2017, 4, 1-1.	1.1	9
15	On the control of Hopf bifurcations. , 0, , .		8
16	Balanced reduction of nonlinear control systems in reproducing kernel Hilbert space. , 2010, , .		7
17	Resonant terms and bifurcations of nonlinear control systems with one uncontrollable mode. <i>Systems and Control Letters</i> , 2003, 49, 267-278.	2.3	6
18	Practical Stabilization of Systems with a Fold Control Bifurcation. <i>Lecture Notes in Control and Information Sciences</i> , 0, , 37-48.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Kernel methods for the approximation of discrete-time linear autonomous and control systems. SN Applied Sciences, 2019, 1, 1.	2.9	5
20	A note on kernel methods for multiscale systems with critical transitions. Mathematical Methods in the Applied Sciences, 2019, 42, 907-917.	2.3	5
21	Control of center manifolds. , 0, , .		4
22	Some results on inverse optimality based designs. Systems and Control Letters, 2001, 43, 239-246.	2.3	3
23	The controlled center dynamics of discrete time control bifurcations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 669-674.	0.4	3
24	Empirical estimators for stochastically forced nonlinear systems: Observability, controllability and the invariant measure. , 2012, , .		3
25	Local mode-in-state participation factors for nonlinear systems. , 2014, , .		3
26	STABILIZATION OF DISCRETE TIME SYSTEMS WITH A FOLD OR PERIOD DOUBLING CONTROL BIFURCATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 240-245.	0.4	2
27	The Controlled Center Systems. IEEE Transactions on Automatic Control, 2007, 52, 2188-2192.	5.7	2
28	Kernel Methods and the Maximum Mean Discrepancy for Seizure Detection. , 2018, , .		2
29	Low Codimension Control Singularities for Single Input Nonlinear Systems. , 0, , 181-192.		1
30	CONTROL SINGULARITIES OF CODIMENSIONS ONE AND TWO. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 245-250.	0.4	1
31	ON THE CONVERGENCE AND BEHAVIOR OF THREE DIMENSIONAL NORMAL FORMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 239-244.	0.4	1
32	The Controlled Center Systems. , 2006, , .		1
33	Kernel Methods for Discrete-Time Linear Equations. Lecture Notes in Computer Science, 2019, , 178-191.	1.3	0