Murat Arcak

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168
papers4,373
citations32
h-index63
g-index193
ext. papers5,476
ext. citations3.9
avg, IF6.16
L-index

#	Paper	IF	Citations
168	Compositional Analysis of Interconnected Systems Using Delta Dissipativity 2022 , 6, 662-667		
167	Monotonicity-Based Symbolic Control for Safety in Driving Scenarios 2022 , 6, 830-835		
166	Imitation Learning With Stability and Safety Guarantees 2022 , 6, 409-414		5
165	Backward Reachability Using Integral Quadratic Constraints for Uncertain Nonlinear Systems 2021 , 5, 707-712		2
164	Dissipativity Tools for Convergence to Nash Equilibria in Population Games. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 39-50	4	7
163	Abstraction-Based Control Synthesis. Springer Briefs in Electrical and Computer Engineering, 2021, 93-10	10.4	1
162	Backward Reachability for Polynomial Systems on A Finite Horizon. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	3
161	Stability Analysis using Quadratic Constraints for Systems with Neural Network Controllers. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	3
160	Mixed Monotonicity. Springer Briefs in Electrical and Computer Engineering, 2021, 33-41	0.4	
159	Sampled-Data Mixed Monotonicity. Springer Briefs in Electrical and Computer Engineering, 2021, 43-59	0.4	
158	An Efficient Algorithm to Compute Norms for Finite Horizon, Linear Time-Varying Systems 2021 , 5, 159	7-1602	2 0
157	Computing Worst-Case Disturbances for Finite-Horizon Linear Time-Varying Approximations of Uncertain Systems 2021 , 5, 1753-1758		
156	Measure of Robustness Against Parameter Uncertainty. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2021 , 87-92	0.4	
155	Approximate abstractions of control systems with an application to aggregation. <i>Automatica</i> , 2020 , 119, 109065	5.7	O
154	Cell-in-the-loop pattern formation with optogenetically emulated cell-to-cell signaling. <i>Nature Communications</i> , 2020 , 11, 1355	17.4	19
153	Reachability analysis using dissipation inequalities for uncertain nonlinear systems. <i>Systems and Control Letters</i> , 2020 , 142, 104736	2.4	3
152	Interval Reachability Analysis using Second-Order Sensitivity. IFAC-PapersOnLine, 2020, 53, 1825-1830	0.7	

(2018-2020)

151	Continuous and discrete abstractions for planning, applied to ship docking. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1831-1836	0.7	1	
150	PIRK: Scalable Interval Reachability Analysis for High-Dimensional Nonlinear Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 556-568	0.9	3	
149	Robust Control of the Sit-to-Stand Movement for a Powered Lower Limb Orthosis. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2390-2403	4.8	7	
148	Improving Urban Traffic Throughput With Vehicle Platooning: Theory and Experiments. <i>IEEE Access</i> , 2020 , 8, 141208-141223	3.5	9	
147	Data-Driven Reachable Set Computation using Adaptive Gaussian Process Classification and Monte Carlo Methods 2020 ,		4	
146	Cooperative Control for Multirotors Transporting an Unknown Suspended Load Under Environmental Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 653-660	4.8	28	
145	A Spatial Filtering Approach to Biological Patterning. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019 , 18, 1694-1721	2.8		
144	TIRA 2019 ,		18	
143	Flexible Computational Pipelines for Robust Abstraction-Based Control Synthesis. <i>Lecture Notes in Computer Science</i> , 2019 , 591-608	0.9		
142	Continuous Abstraction of Nonlinear Systems using Sum-of-Squares Programming 2019 ,		4	
141	Finite Horizon Backward Reachability Analysis and Control Synthesis for Uncertain Nonlinear Systems 2019 ,		4	
140	Editorial to the Special Issue of L-CSS on Control and Network Theory for Biological Systems 2019 , 3, 228-229		3	
139	Finite horizon robustness analysis of LTV systems using integral quadratic constraints. <i>Automatica</i> , 2019 , 100, 135-143	5.7	23	
138	Designing Spatially Distributed Gene Regulatory Networks To Elicit Contrasting Patterns. <i>ACS Synthetic Biology</i> , 2019 , 8, 119-126	5.7	4	
137	Transformation of Optimal Centralized Controllers Into Near-Globally Optimal Static Distributed Controllers. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 66-80	5.9	11	
136	Major Computational Breakthroughs in the Synthesis of Symbolic Controllers via Decomposed Algorithms 2018 ,		1	
135	Exploiting symmetry for discrete-time reachability computations 2018 , 2, 213-217		5	
134	. IEEE Transactions on Control of Network Systems, 2018 , 5, 525-535	4	6	

133	Compositional Abstraction for Networks of Control Systems: A Dissipativity Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1003-1015	4	20
132	Pattern Formation over Multigraphs. IEEE Transactions on Network Science and Engineering, 2018, 5, 55	-64 .9	1
131	Constructing Control System Abstractions from Modular Components 2018,		10
130	Finite Time Robust Control of the Sit-to-Stand Movement for Powered Lower Limb Orthoses 2018 ,		2
129	Hierarchical Control via an Approximate Aggregate Manifold 2018,		2
128	Control and Optimization Problems in Hyperpolarized Carbon-13 MRI. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , 2018 , 29-40	0.2	
127	Simulation-Based Reachability Analysis for Nonlinear Systems Using Componentwise Contraction Properties. <i>Lecture Notes in Computer Science</i> , 2018 , 61-76	0.9	5
126	Reachability Analysis for Robustness Evaluation of the Sit-to-Stand Movement for Powered Lower Limb Orthoses 2018 ,		2
125	Spatio-Temporally Constrained Reconstruction for Hyperpolarized Carbon-13 MRI Using Kinetic Models. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2603-2612	11.7	5
124	Investigation of analysis methods for hyperpolarized 13C-pyruvate metabolic MRI in prostate cancer patients. <i>NMR in Biomedicine</i> , 2018 , 31, e3997	4.4	44
123	Symmetry reduction for dynamic programming. <i>Automatica</i> , 2018 , 97, 367-375	5.7	4
122	Sampled-Data Reachability Analysis Using Sensitivity and Mixed-Monotonicity 2018 , 2, 761-766		13
121	Offset optimization in signalized traffic networks via semidefinite relaxation. <i>Transportation Research Part B: Methodological</i> , 2017 , 100, 82-92	7.2	12
120	An Input Dutput Framework for Submanifold Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5170-5184	5.9	
119	Symbolic control design for monotone systems with directed specifications. <i>Automatica</i> , 2017 , 83, 10-1	95.7	12
118	Formal Methods for Control of Traffic Flow: Automated Control Synthesis from Finite-State Transition Models. <i>IEEE Control Systems</i> , 2017 , 37, 109-128	2.9	14
117	Symmetry reduction for dynamic programming and application to MRI 2017,		2
116	A Tug-of-War Mechanism for Pattern Formation in a Genetic Network. <i>ACS Synthetic Biology</i> , 2017 , 6, 2056-2066	5.7	3

115	Motion Planning of the Sit to Stand Movement for Powered Lower Limb Orthoses 2017,		2
114	A Small Gain Theorem for Parametric Assume-Guarantee Contracts 2017 ,		8
113	Finite abstraction of mixed monotone systems with discrete and continuous inputs. <i>Nonlinear Analysis: Hybrid Systems</i> , 2017 , 23, 254-271	4.5	9
112	Passivity-based Formation Control for UAVs with a Suspended Load. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1315	50 0 1 , 31.	55 ₁₇
111	Pattern Formation in Large-Scale Networks with Asymmetric Connections. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10944-10949	0.7	
110	Dynamic contracts for distributed temporal logic control of traffic networks 2017 ,		8
109	A scalable method for designing distributed controllers for systems with unknown initial states 2017 ,		1
108	2017,		7
107	Offset optimization of signalized intersections via the Burer-Monteiro method 2017,		3
106	Optimizing Flip Angles for Metabolic Rate Estimation in Hyperpolarized Carbon-13 MRI. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2403-2412	11.7	24
105	Stability of traffic flow networks with a polytree topology. <i>Automatica</i> , 2016 , 66, 246-253	5.7	24
104	Stability of an analog optimization circuit for quadratic programming. <i>Systems and Control Letters</i> , 2016 , 88, 68-74	2.4	12
103	Traffic Network Control From Temporal Logic Specifications. <i>IEEE Transactions on Control of Network Systems</i> , 2016 , 3, 162-172	4	28
102	Modular Synthetic Inverters from Zinc Finger Proteins and Small RNAs. <i>PLoS ONE</i> , 2016 , 11, e0149483	3.7	6
101	Comparison to Other Input/Output Approaches. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 , 73-81	0.4	
100	Dissipativity with Dynamic Supply Rates. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2016 , 63-72	0.4	1
99	Stability of Interconnected Systems. Springer Briefs in Electrical and Computer Engineering, 2016, 13-21	0.4	
98	Mixed monotonicity of partial first-in-first-out traffic flow models 2016 ,		12

97	Semidefinite relaxations in optimal experiment design with application to substrate injection for hyperpolarized MRI 2016 ,		6
96	Symmetric Monotone Embedding of Traffic Flow Networks with First-In-First-Out Dynamics. <i>IFAC-PapersOnLine</i> , 2016 , 49, 642-647	0.7	1
95	Parallel dynamic programming for optimal experiment design in nonlinear systems 2016,		6
94	Networks of Dissipative Systems. Springer Briefs in Electrical and Computer Engineering, 2016,	0.4	26
93	Reachability Analysis of Nonlinear Systems Using Matrix Measures. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 265-270	5.9	35
92	Decoupling translational and rotational effects on the phase synchronization of rotating helices. <i>Physical Review E</i> , 2015 , 91, 023018	2.4	1
91	A Compartmental Model for Traffic Networks and Its Dynamical Behavior. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2698-2703	5.9	40
90	Compositional performance certification of interconnected systems using ADMM. <i>Automatica</i> , 2015 , 61, 55-63	5.7	16
89	Efficient finite abstraction of mixed monotone systems 2015,		47
88	Adaptive Synchronization of Diffusively Coupled Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2015 , 2, 131-141	4	11
87	A Dissipativity Approach to Safety Verification for Interconnected Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1722-1727	5.9	24
86	Compositional controller synthesis for vehicular traffic networks 2015 ,		26
85	Controlling a network of signalized intersections from temporal logical specifications 2015,		7
84	A Compartmental Lateral Inhibition System to Generate Contrasting Patterns. <i>IEEE Life Sciences Letters</i> , 2015 , 1, 7-10		
83	Optimal experiment design for physiological parameter estimation using hyperpolarized carbon-13 magnetic resonance imaging 2015 ,		7
82	A computational approach to synthesizing guards for hybrid systems. <i>Systems and Control Letters</i> , 2014 , 73, 25-32	2.4	1
81	Dynamical properties of a compartmental model for traffic networks 2014 ,		17
80	Freeway traffic control from linear temporal logic specifications 2014 ,		13

79	Performance certification of interconnected nonlinear systems using ADMM 2014,		3
78	Trajectory-based reachability analysis of switched nonlinear systems using matrix measures 2014 ,		2
77	A GRAPH PARTITIONING APPROACH TO PREDICTING PATTERNS IN LATERAL INHIBITION SYSTEMS. SIAM Journal on Applied Dynamical Systems, 2013 , 12, 2012-2031	2.8	10
76	Synchronization of diffusively-coupled limit cycle oscillators. <i>Automatica</i> , 2013 , 49, 3613-3622	5.7	13
75	Delay Robustness of Interconnected Passive Systems: An Integral Quadratic Constraint Approach. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 712-724	5.9	15
74	Pattern Formation by Lateral Inhibition in Large-Scale Networks of Cells. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1250-1262	5.9	22
73	Synchronization of limit cycle oscillations in diffusively-coupled systems 2013,		4
72	Spatial uniformity in diffusively-coupled systems using weighted L2 norm contractions 2013,		3
71	Verifying safety of interconnected passive systems using SOS programming 2013,		1
70	Scaling the size of a formation using relative position feedback. <i>Automatica</i> , 2012 , 48, 2677-2685	5.7	49
69	Stability certification of large scale stochastic systems using dissipativity. <i>Automatica</i> , 2012 , 48, 2956-2	29 6 4	12
69	Stability certification of large scale stochastic systems using dissipativity. <i>Automatica</i> , 2012 , 48, 2956-2005. Guard synthesis for safety of hybrid systems using sum of squares programming 2012 ,	29 6 .47	3
		2 96 47 5.9	
68	Guard synthesis for safety of hybrid systems using sum of squares programming 2012 , Graph Weight Allocation to Meet Laplacian Spectral Constraints. <i>IEEE Transactions on Automatic</i>		3
68 67	Guard synthesis for safety of hybrid systems using sum of squares programming 2012 , Graph Weight Allocation to Meet Laplacian Spectral Constraints. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1872-1877 Quaternion-Based Hybrid Feedback for Robust Global Attitude Synchronization. <i>IEEE Transactions</i>	5.9	3 17
68 67 66	Guard synthesis for safety of hybrid systems using sum of squares programming 2012, Graph Weight Allocation to Meet Laplacian Spectral Constraints. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1872-1877 Quaternion-Based Hybrid Feedback for Robust Global Attitude Synchronization. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2122-2127 A feedback quenched oscillator produces turing patterning with one diffuser. <i>PLoS Computational</i>	5.9 5.9	3 17 42
68 67 66 65	Guard synthesis for safety of hybrid systems using sum of squares programming 2012, Graph Weight Allocation to Meet Laplacian Spectral Constraints. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1872-1877 Quaternion-Based Hybrid Feedback for Robust Global Attitude Synchronization. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2122-2127 A feedback quenched oscillator produces turing patterning with one diffuser. <i>PLoS Computational Biology</i> , 2012, 8, e1002331	5.9 5.9	3 17 42 23

61	Scaling the size of a multiagent formation via distributed feedback 2011 ,		5
60	. IEEE Transactions on Automatic Control, 2011 , 56, 2766-2777	.9	27
59	Equilibrium-independent passivity: A new definition and numerical certification. <i>Automatica</i> , 2011 , 47, 1949-1956	-7	57
58	Certifying spatially uniform behavior in reactiondiffusion PDE and compartmental ODE systems. Automatica, 2011 , 47, 1219-1229	-7	48
57	Graph weight design for Laplacian eigenvalue constraints with multi-agent systems applications 2011 ,		4
56	A quenched oscillator network for pattern formation in gene expression 2011 ,		4
55	On spatially uniform behavior in reaction-diffusion systems 2010 ,		1
54	Nonlinear analysis of ring oscillator circuits 2010 ,		1
53	Equilibrium-independent passivity: a new definition and implications 2010,		1
52	Robust global asymptotic attitude synchronization by hybrid control 2010 ,		3
52 51	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An	.9	135
	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An	2.9	
51	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An Input-Output Approach. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1367-1379		
51	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An Input-Output Approach. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1367-1379 2010, Instability Mechanisms in Cooperative Control. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 258-263; In situ detection of anode flooding of a PEM fuel cell. <i>International Journal of Hydrogen Energy</i> .		135
515049	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An Input-Output Approach. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1367-1379 2010 , Instability Mechanisms in Cooperative Control. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 258-263; In situ detection of anode flooding of a PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6765-6770 A sufficient condition for additive -stability and application to reaction diffusion models. <i>Systems</i>	.9	135 1 13
51504948	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An Input-Output Approach. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1367-1379 2010 , Instability Mechanisms in Cooperative Control. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 258-263 In situ detection of anode flooding of a PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6765-6770 A sufficient condition for additive -stability and application to reaction diffusion models. <i>Systems</i>	·4	135 1 13 41
5150494847	Synchronization of Interconnected Systems With Applications to Biochemical Networks: An Input-Output Approach. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1367-1379 2010, Instability Mechanisms in Cooperative Control. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 258-263; In situ detection of anode flooding of a PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6765-6770 A sufficient condition for additive -stability and application to reaction diffusion models. <i>Systems and Control Letters</i> , 2009 , 58, 736-741 Real-time optimization of net power in a fuel cell system. <i>Journal of Power Sources</i> , 2009 , 187, 422-430 Time-scale separation redesigns for stabilization and performance recovery of uncertain nonlinear	·4	135 1 13 41 8

(2007-2009)

	43	Robust Stabilization and Performance Recovery of Nonlinear Systems With Unmodeled Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1351-1356	5.9	19	
	42	Estimation of Radial Power System Transfer Path Dynamic Parameters Using Synchronized Phasor Data. <i>IEEE Transactions on Power Systems</i> , 2008 , 23, 564-571	7	37	
,	41	Robust stabilization and performance recovery of nonlinear systems with input unmodeled dynamics 2008 ,		1	
	40	A Passivity-Based Approach to Stability of Spatially Distributed Systems With a Cyclic Interconnection Structure. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 75-86	5.9	24	
	39	Adaptive design for reference velocity recovery in motion coordination. <i>Systems and Control Letters</i> , 2008 , 57, 602-610	2.4	72	
,	38	Area aggregation and time-scale modeling for sparse nonlinear networks. <i>Systems and Control Letters</i> , 2008 , 57, 142-149	2.4	32	
	37	Rigid body attitude coordination without inertial frame information. <i>Automatica</i> , 2008 , 44, 3170-3175	5.7	112	
	36	Using electrochemical impedance to determine airflow rates. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4694-4701	6.7	11	
	35	Gradient climbing in formation via extremum seeking and passivity-based coordination rules. <i>Asian Journal of Control</i> , 2008 , 10, 201-211	1.7	25	
	34	A passivity-based stability criterion for a class of biochemical reaction networks. <i>Mathematical Biosciences and Engineering</i> , 2008 , 5, 1-19	2.1	85	
,	33	A Three-time-scale redesign for robust stabilization and performance recovery of nonlinear systems with input uncertainties 2007 ,		2	
	32	Synchronized Phasor Data Based Energy Function Analysis of Dominant Power Transfer Paths in Large Power Systems. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 727-734	7	57	
	31	Passivity-based designs for synchronized path-following. <i>Automatica</i> , 2007 , 43, 1508-1518	5.7	166	
,	30	A Two-Time-Scale Redesign for Robust Stabilization and Performance Recovery of Uncertain Nonlinear Systems. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	13	
	29	Remarks on the stability of spatially distributed systems with a cyclic interconnection structure. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3	
	28	A decentralized design for group alignment and synchronous rotation without inertial frame information 2007 ,		5	
	27	Group Coordination when the Reference Velocity is Available Only to the Leader: An Adaptive Design. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3	
	26	Gradient climbing in formation via extremum seeking and passivity-based coordination rules 2007 ,		33	

25 Passivity as a Design Tool for Group Coordination. *IEEE Transactions on Automatic Control*, **2007**, 52, 1389-5390501

24	A passivity-based stability criterion for a class of interconnected systems and applications to biochemical reaction networks 2007 ,		8
23	Area Aggregation and Time Scale Modeling for Sparse Nonlinear Networks 2006,		3
22	Passivity-Based Designs for Synchronized Path Following 2006 ,		14
21	. IEEE/ACM Transactions on Networking, 2006, 14, 1313-1322	3.8	3
20	Diagonal stability of a class of cyclic systems and its connection with the secant criterion. <i>Automatica</i> , 2006 , 42, 1531-1537	5.7	150
19	An algorithm for estimation of membrane water content in PEM fuel cells. <i>Journal of Power Sources</i> , 2006 , 157, 389-394	8.9	53
18	A hybrid redesign of Newton observers in the absence of an exact discrete-time model. <i>Systems and Control Letters</i> , 2006 , 55, 429-436	2.4	23
17	Observer designs for fuel processing reactors in fuel cell power systems. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 447-457	6.7	28
16	Robustness of network flow control against disturbances and time-delay. <i>Systems and Control Letters</i> , 2004 , 53, 13-29	2.4	27
15	A relaxed condition for stability of nonlinear observer-based controllers. <i>Systems and Control Letters</i> , 2004 , 53, 311-320	2.4	22
14	A framework for nonlinear sampled-data observer design via approximate discrete-time models and emulation. <i>Automatica</i> , 2004 , 40, 1931-1938	5.7	137
13	Feedback tuning of bifurcations. Systems and Control Letters, 2003, 50, 229-239	2.4	17
12	Observer design for systems with multivariable monotone nonlinearities. <i>Systems and Control Letters</i> , 2003 , 50, 319-330	2.4	158
11	Circle and Popov criteria as tools for nonlinear feedback design. <i>Automatica</i> , 2003 , 39, 643-650	5.7	64
10	Input-to-state stability for a class of Lurie systems. <i>Automatica</i> , 2002 , 38, 1945-1949	5.7	62
9	Boundedness without Absolute Stability in Systems with Stiffening Nonlinearities. <i>European Journal of Control</i> , 2002 , 8, 243-250	2.5	13
8	Feasibility conditions for circle criterion designs. Systems and Control Letters, 2001, 42, 405-412	2.4	35

LIST OF PUBLICATIONS

7	Redesign of backstepping for robustness against unmodelled dynamics. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 633-643	3.6	4
6	Constructive nonlinear control: a historical perspective. <i>Automatica</i> , 2001 , 37, 637-662	5.7	450
5	Nonlinear observers: a circle criterion design and robustness analysis. <i>Automatica</i> , 2001 , 37, 1923-1930	5.7	311
4	Robust nonlinear control of feedforward systems with unmodeled dynamics. <i>Automatica</i> , 2001 , 37, 265	- <i>37</i> ₇ 2	59
3	Robust nonlinear control of systems with input unmodeled dynamics. <i>Systems and Control Letters</i> , 2000 , 41, 115-122	2.4	34
2	Automatic Generation of Communication Requirements for Enforcing Multi-Agent Safety. Electronic Proceedings in Theoretical Computer Science, EPTCS,269, 3-16		
1	Cell-in-the-loop pattern formation with optogenetically emulated cell-to-cell signaling		1