

# Antonis Papachristodoulou

## List of Publications by Citations

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188  
papers

3,063  
citations

29  
h-index

46  
g-index

205  
ext. papers

3,760  
ext. citations

4.2  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
188	Delay robustness in consensus problems. <i>Automatica</i> , <b>2010</b> , 46, 1252-1265	5.7	185
187	Consensus in Multi-Agent Systems With Coupling Delays and Switching Topology. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 2976-2982	5.9	142
186	Effects of Delay in Multi-Agent Consensus and Oscillator Synchronization. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 1471-1477	5.9	129
185	Structural Identifiability of Dynamic Systems Biology Models. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1005153	11.0	110
184	Analysis of Non-polynomial Systems Using the Sum of Squares Decomposition. <i>Lecture Notes in Control and Information Sciences</i> , <b>2005</b> , 23-43	0.5	90
183	Tuning the dials of Synthetic Biology. <i>Microbiology (United Kingdom)</i> , <b>2013</b> , 159, 1236-1253	2.9	78
182	Delay Robustness in Non-Identical Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1597-1603	5.9	76
181	Robust Consensus Controller Design for Nonlinear Relative Degree Two Multi-Agent Systems With Communication Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 145-151	5.9	76
180	Algorithmic Construction of Lyapunov Functions for Power System Stability Analysis. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 2533-2546	3.9	75
179	Model decomposition and reduction tools for large-scale networks in systems biology. <i>Automatica</i> , <b>2011</b> , 47, 1165-1174	5.7	66
178	Positive Forms and Stability of Linear Time-Delay Systems. <i>SIAM Journal on Control and Optimization</i> , <b>2009</b> , 47, 3237-3258	1.9	62
177	A real-time control framework for smart power networks: Design methodology and stability. <i>Automatica</i> , <b>2015</b> , 58, 43-50	5.7	60
176	SOSTOOLS and Its Control Applications. <i>Lecture Notes in Control and Information Sciences</i> , <b>2005</b> , 273-292	0.5	53
175	Synchronization in Oscillator Networks: Switching Topologies and Non-homogeneous Delays		51
174	On validation and invalidation of biological models. <i>BMC Bioinformatics</i> , <b>2009</b> , 10, 132	3.6	48
173	Consensus reaching in multi-agent packet-switched networks with non-linear coupling. <i>International Journal of Control</i> , <b>2009</b> , 82, 953-969	1.5	47
172	Advanced Methods and Algorithms for Biological Networks Analysis. <i>Proceedings of the IEEE</i> , <b>2006</b> , 94, 832-853	14.3	43

171	A Decomposition Technique for Nonlinear Dynamical System Analysis. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1516-1521	5.9	42
170	Engineering and ethical perspectives in synthetic biology. Rigorous, robust and predictable designs, public engagement and a modern ethical framework are vital to the continued success of synthetic biology. <i>EMBO Reports</i> , <b>2012</b> , 13, 584-90	6.5	41
169	Synthetic negative feedback circuits using engineered small RNAs. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 9875-9889	5.0	40
168	Discriminating between rival biochemical network models: three approaches to optimal experiment design. <i>BMC Systems Biology</i> , <b>2010</b> , 4, 38	3.5	35
167	Robust Stability Analysis of Nonlinear Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1035-1041	5.9	33
166	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays <b>2008</b> ,		33
165	Behavioural Economics, Hyperbolic Discounting and Environmental Policy. <i>Environmental and Resource Economics</i> , <b>2010</b> , 46, 189-206	4.4	32
164	Dissipation inequalities for the analysis of a class of PDEs. <i>Automatica</i> , <b>2016</b> , 66, 163-171	5.7	31
163	Synchronization in Oscillator Networks with Heterogeneous Delays, Switching Topologies and Nonlinear Dynamics <b>2006</b> ,		31
162	Frequency synchronization and phase agreement in Kuramoto oscillator networks with delays. <i>Automatica</i> , <b>2012</b> , 48, 3008-3017	5.7	30
161	A Converse Sum of Squares Lyapunov Result With a Degree Bound. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 2281-2293	5.9	30
160	Stability Analysis for a Class of Partial Differential Equations via Semidefinite Programming. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1649-1654	5.9	29
159	Analysis of Polynomial Systems With Time Delays via the Sum of Squares Decomposition. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1058-1064	5.9	28
158	Advances in computational Lyapunov analysis using sum-of-squares programming. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2015</b> , 20, 2361-2381	1.3	28
157	Layered decomposition for the model order reduction of timescale separated biochemical reaction networks. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 356, 113-22	2.3	27
156	Designing Genetic Feedback Controllers. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2015</b> , 9, 475-84	5.1	26
155	A streamwise constant model of turbulence in plane Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 665, 99-119	3.7	25
154	Efficient, sparse biological network determination. <i>BMC Systems Biology</i> , <b>2009</b> , 3, 25	3.5	25

153	On the Analysis of Systems Described by Classes of Partial Differential Equations <b>2006</b> ,		25
152	A Synthetic Recombinase-Based Feedback Loop Results in Robust Expression. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1663-1671	5.7	22
151	Generalised absolute stability and sum of squares. <i>Automatica</i> , <b>2013</b> , 49, 960-967	5.7	22
150	Chordal decomposition in operator-splitting methods for sparse semidefinite programs. <i>Mathematical Programming</i> , <b>2020</b> , 180, 489-532	2.1	22
149	Achieving real-time economic dispatch in power networks via a saddle point design approach <b>2015</b> ,		21
148	Adaptation and control circuits in bacterial chemotaxis. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 1265-91	3.1	21
147	Stability analysis of linear systems with time-varying delays: Delay uncertainty and quenching <b>2007</b> ,		21
146	Scalable Design of Structured Controllers Using Chordal Decomposition. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 752-767	5.9	19
145	Convex Design Control for Practical Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 1692-1705	5.9	19
144	Guaranteed error bounds for structured complexity reduction of biochemical networks. <i>Journal of Theoretical Biology</i> , <b>2012</b> , 304, 172-82	2.3	19
143	Fast ADMM for semidefinite programs with chordal sparsity <b>2017</b> ,		19
142	Positive Forms and Stability of Linear Time-Delay Systems <b>2006</b> ,		18
141	Simplified mechanistic models of gene regulation for analysis and design. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20150312	4.1	17
140	A model invalidation-based approach for elucidating biological signalling pathways, applied to the chemotaxis pathway in <i>R. sphaeroides</i> . <i>BMC Systems Biology</i> , <b>2009</b> , 3, 105	3.5	17
139	Congestion control and its stability in networks with delay sensitive traffic. <i>Computer Networks</i> , <b>2011</b> , 55, 20-32	5.4	17
138	Robust nonlinear stability and performance analysis of an F/A-18 aircraft model using sum of squares programming. <i>International Journal of Robust and Nonlinear Control</i> , <b>2013</b> , 23, 1099-1114	3.6	16
137	Distributed Control for Reaching Optimal Steady State in Network Systems: An Optimization Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 864-871	5.9	16
136	Delineating parameter unidentifiabilities in complex models. <i>Physical Review E</i> , <b>2017</b> , 95, 032314	2.4	15

135	Distributed optimal steady-state control using reverse- and forward-engineering <b>2015</b> ,		15
134	Distributed dynamic feedback control for smart power networks with tree topology <b>2014</b> ,		15
133	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays <b>2009</b> ,		15
132	Methodological frameworks for large-scale network analysis and design. <i>Computer Communication Review</i> , <b>2004</b> , 34, 7-20	1.4	15
131	Analysis and control design of sustainable policies for greenhouse gas emissions. <i>Applied Thermal Engineering</i> , <b>2013</b> , 53, 420-431	5.8	14
130	Chordal sparsity, decomposing SDPs and the Lyapunov equation <b>2014</b> ,		14
129	A single phosphatase can convert a robust step response into a graded, tunable or adaptive response. <i>Microbiology (United Kingdom)</i> , <b>2013</b> , 159, 1276-1285	2.9	14
128	Feedback control architecture and the bacterial chemotaxis network. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1001130	5	14
127	A new computational tool for establishing model parameter identifiability. <i>Journal of Computational Biology</i> , <b>2009</b> , 16, 875-85	1.7	14
126	Nonlinear Multi-Agent System Consensus with Time-Varying Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 1522-1527		14
125	The Interplay between Feedback and Buffering in Cellular Homeostasis. <i>Cell Systems</i> , <b>2017</b> , 5, 498-508.e23.6	2.6	13
124	Development of Aspirin-Inducible Biosensors in and SimCells. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	13
123	Improving the Performance of Network Congestion Control Algorithms. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 522-527	5.9	13
122	Exploiting Sparsity in the Coefficient Matching Conditions in Sum-of-Squares Programming Using ADMM <b>2017</b> , 1, 80-85		13
121	Delay Robustness of Nonlinear Internet Congestion Control Schemes. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 1421-1427	5.9	13
120	Optimal harvesting of fish stocks under a time-varying discount rate. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 269, 166-73	2.3	13
119	Amplification and nonlinear mechanisms in plane Couette flow. <i>Physics of Fluids</i> , <b>2011</b> , 23, 065108	4.4	13
118	Robust Stabilization of Nonlinear Time Delay Systems Using Convex Optimization		13

117	Safety verification for distributed parameter systems using barrier functionals. <i>Systems and Control Letters</i> , <b>2017</b> , 108, 33-39	2.4	12
116	Input-output analysis of distributed parameter systems using convex optimization <b>2014</b> ,		12
115	A Dynamic Model of Resource Allocation in Response to the Presence of a Synthetic Construct. <i>ACS Synthetic Biology</i> , <b>2018</b> , 7, 1201-1210	5.7	11
114	Adaptive pulse width modulation design for power converters based on affine switched systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2018</b> , 30, 306-322	4.5	11
113	Ribo-attenuators: novel elements for reliable and modular riboswitch engineering. <i>Scientific Reports</i> , <b>2017</b> , 7, 4599	4.9	11
112	Improving efficiency and scalability of sum of squares optimization: Recent advances and limitations <b>2017</b> ,		11
111	Semi-definite programming and functional inequalities for distributed parameter systems <b>2014</b> ,		11
110	A real-time control framework for smart power networks with star topology <b>2013</b> ,		11
109	A converse sum-of-squares Lyapunov result: An existence proof based on the Picard iteration <b>2010</b> ,		11
108	A network decomposition approach for efficient sum of squares programming based analysis <b>2010</b> ,		11
107	Using economic Model Predictive Control to design sustainable policies for mitigating climate change <b>2012</b> ,		11
106	A Nonlinear Hybrid Life Support System: Dynamic Modeling, Control Design, and Safety Verification. <i>IEEE Transactions on Control Systems Technology</i> , <b>2007</b> , 15, 1003-1017	4.8	11
105	Determining Interconnections in Chemical Reaction Networks. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	11
104	Density Flow in Dynamical Networks via Mean-Field Games. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 1342-1355	5.9	10
103	Real-time active and reactive power regulation in power systems with tap-changing transformers and controllable loads. <i>Sustainable Energy, Grids and Networks</i> , <b>2016</b> , 5, 27-38	3.6	10
102	<b>2019</b> , 3, 1014-1019		10
101	Metabolic control of nitrogen fixation in rhizobium-legume symbioses. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	10
100	In situ characterisation and manipulation of biological systems with Chi.Bio. <i>PLoS Biology</i> , <b>2020</b> , 18, e300794	9.7	9

99	Fast ADMM for Sum-of-Squares Programs Using Partial Orthogonality. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3869-3876	5.9	9
98	A framework for input-output analysis of wall-bounded shear flows. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 873, 742-785	3.7	8
97	A distributed PID controller for network congestion control problems <b>2014</b> ,		8
96	Block-diagonal solutions to Lyapunov inequalities and generalisations of diagonal dominance <b>2017</b> ,		8
95	Redesigning generation control in power systems: Methodology, stability and delay robustness <b>2014</b> ,		8
94	Dynamical system decomposition for efficient, sparse analysis <b>2010</b> ,		8
93	Sparse sum-of-squares (SOS) optimization: A bridge between DSOS/SDSOS and SOS optimization for sparse polynomials <b>2019</b> ,		8
92	. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 413-420	5.9	8
91	Multiple sensors provide spatiotemporal oxygen regulation of gene expression in a Rhizobium-legume symbiosis. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009099	6	8
90	. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 5, 807-817	4	7
89	Fast ADMM for homogeneous self-dual embedding of sparse SDPs * *Y. Zheng and G. Fantuzzi contributed equally to this work. Y. Zheng is supported by the Clarendon Scholarship and the Jason Hu Scholarship.. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 8411-8416	0.7	7
88	<b>2014</b> ,		7
87	Quantification of Interactions between Dynamic Cellular Network Functionalities by Cascaded Layering. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004235	5	6
86	Optimization With Affine Homogeneous Quadratic Integral Inequality Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 6221-6236	5.9	6
85	Layering in networks: The case of biochemical systems <b>2013</b> ,		6
84	Clinical correlation of nitric oxide levels with acute rejection in renal transplantation. <i>International Urology and Nephrology</i> , <b>2011</b> , 43, 883-90	2.3	6
83	Sparsity Invariance for Convex Design of Distributed Controllers. <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 7, 1836-1847	4	6
82	Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM. <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 7, 614-626	4	6

81	Scalable analysis of linear networked systems via chordal decomposition <b>2018</b> ,		6
80	On Separable Quadratic Lyapunov Functions for Convex Design of Distributed Controllers <b>2019</b> ,		5
79	Designing Conservation Relations in Layered Synthetic Biomolecular Networks. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2015</b> , 9, 572-80	5.1	5
78	<b>2014</b> ,		5
77	Frequency domain analysis of small non-coding RNAs shows summing junction-like behaviour <b>2017</b> ,		5
76	Barrier functionals for output functional estimation of PDEs <b>2015</b> ,		5
75	Convex solutions to integral inequalities in two-dimensional domains <b>2015</b> ,		5
74	Dynamical system decomposition using dissipation inequalities <b>2011</b> ,		5
73	A loop shaping approach for designing biological circuits <b>2012</b> ,		5
72	Inverses of Positive Linear Operators and State Feedback Design for Time-Delay Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 278-283		5
71	An optimization-based method for bounding state functionals of nonlinear stochastic systems <b>2016</b> ,		5
70	Developing a graduate training program in Synthetic Biology: SynBioCDT. <i>Synthetic Biology</i> , <b>2019</b> , 4, ysz006	3.3	4
69	On the performance of nonlinear dynamical systems under parameter perturbation. <i>Automatica</i> , <b>2016</b> , 63, 265-273	5.7	4
68	Challenges at the interface of control engineering and synthetic biology <b>2017</b> ,		4
67	The autorepressor: A case study of the importance of model selection <b>2017</b> ,		4
66	A convex approach to hydrodynamic analysis <b>2015</b> ,		4
65	Introducing INTSOSTOOLS: A SOSTOOLS plug-in for integral inequalities <b>2015</b> ,		4
64	Structured model reduction for dynamical networked systems <b>2010</b> ,		4

63	A model for using control theory to design sustainable policies for greenhouse gas emissions <b>2011</b> ,		4
62	Generalised absolute stability and Sum of Squares <b>2011</b> ,		4
61	A structured model reduction method for large scale networks <b>2011</b> ,		4
60	Chordal and factor-width decompositions for scalable semidefinite and polynomial optimization. <i>Annual Reviews in Control</i> , <b>2021</b> ,	10.3	4
59	On the Existence of Block-Diagonal Solutions to Lyapunov and $\{\mathcal{H}_\infty\}$ Riccati Inequalities. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3170-3175	5.9	4
58	A chordal decomposition approach to scalable design of structured feedback gains over directed graphs <b>2016</b> ,		4
57	Structural Identifiability Analysis via Extended Observability and Decomposition. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 171-177	0.7	4
56	<b>2011</b> ,		3
55	Robust Rendezvous of Heterogeneous Euler-Lagrange Systems on Packet-Switched Networks Robustes Rendezvous von heterogenen Euler-Lagrange Systemen mithilfe paketvermittelnder Netzwerke. <i>Automatisierungstechnik</i> , <b>2010</b> , 58,	0.8	3
54	Algorithms for Discriminating Between Biochemical Reaction Network Models: Towards Systematic Experimental Design. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
53	Safety Verification of Controlled Advanced Life Support System Using Barrier Certificates. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 306-321	0.9	3
52	Robust Stability and Performance Analysis of a Longitudinal Aircraft Model Using Sum of Squares Techniques		3
51	Improving Orthogonality in Two-Component Biological Signalling Systems Using Feedback Control <b>2019</b> , 3, 326-331		3
50	Decomposition and Completion of Sum-of-Squares Matrices <b>2018</b> ,		3
49	sbml-diff: A Tool for Visually Comparing SBML Models in Synthetic Biology. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1225-1229	5.7	2
48	Mitigating Biological Signalling Cross-talk with Feedback Control <b>2019</b> ,		2
47	Low-Burden Biological Feedback Controllers for Near-Perfect Adaptation. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 2212-2219	5.7	2
46	<b>2018</b> , 2, 779-784		2

45	Density flow over networks: A mean-field game theoretic approach <b>2014</b> ,	2
44	An invariance principle for time-varying systems <b>2012</b> ,	2
43	Feedback control architecture of the <i>R. sphaeroides</i> chemotaxis network <b>2011</b> ,	2
42	Structured sum of squares for networked systems analysis <b>2011</b> ,	2
41	Generalized Nyquist Consensus Condition for Linear Multi Agent Systems with Heterogeneous Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 24-29	2
40	Using polynomial semi-separable kernels to construct infinite-dimensional Lyapunov functions <b>2008</b> ,	2
39	Positivity of kernel functions for systems with communication delay <b>2007</b> ,	2
38	Multi-agent system consensus in packet-switched networks <b>2007</b> ,	2
37	Design of a Synthetic sRNA-based Feedback Filter Module	2
36	Block Factor-Width-Two Matrices in Semidefinite Programming <b>2019</b> ,	2
35	The effect of spatiotemporal antibiotic inhomogeneities on the evolution of resistance. <i>Journal of Theoretical Biology</i> , <b>2020</b> , 486, 110077	2.3 2
34	Convergence rate analysis of a subgradient averaging algorithm for distributed optimisation with different constraint sets <b>2019</b> ,	2
33	Engineering a Genetic Oscillator Using Delayed Feedback. <i>Advances in Delays and Dynamics</i> , <b>2014</b> , 389-402	1
32	Piecewise polynomial policy iterations for synthesis of optimal control laws in input-saturated systems <b>2015</b> ,	1
31	VVAF - Worst case & safety analysis tools for autonomous rendezvous system <b>2010</b> ,	1
30	Energy amplification in channel flow over riblets <b>2011</b> ,	1
29	A linear multi-agent systems approach to diffusively coupled piecewise affine systems: Delay robustness <b>2011</b> ,	1
28	<b>2011</b> ,	1

27	Modelling channel flow over riblets: Calculating the energy amplification <b>2012</b> ,		1
26	Output Consensus Controller Design for Nonlinear Relative Degree One Multi-Agent Systems with Delays*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 370-375		1
25	Determining interconnections in biochemical networks using linear programming <b>2008</b> ,		1
24	Stability of congestion control schemes with delay sensitive traffic <b>2008</b> ,		1
23	Control Reconfiguration for Improved Performance via Reverse-engineering and Forward-engineering. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 4688-4694	0.7	1
22	Decomposed Structured Subsets for Semidefinite Optimization. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 7374-7379.	0.7	1
21	Control Reconfiguration of Cyber-physical Systems for Improved Performance via Reverse-engineering and Accelerated First-order Algorithms <b>2020</b> ,		1
20	Biomolecular mechanisms for signal differentiation.. <i>IScience</i> , <b>2021</b> , 24, 103462	6.1	1
19	The Interplay Between Feedback and Buffering in Homeostasis. <i>SSRN Electronic Journal</i> ,	1	1
18	A multi-sensor system provides spatiotemporal oxygen regulation of gene expression in a Rhizobium-legume symbiosis		1
17	Chi.Bio: An open-source automated experimental platform for biological science research		1
16	Synthetic negative feedback circuits using engineered small RNAs		1
15	Chordal Decomposition in Rank Minimized Semidefinite Programs with Applications to Subspace Clustering <b>2019</b> ,		1
14	Decomposition Methods for Large-Scale Semidefinite Programs with Chordal Aggregate Sparsity and Partial Orthogonality. <i>Lecture Notes in Mathematics</i> , <b>2018</b> , 33-55	0.4	1
13	Subgradient averaging for multi-agent optimisation with different constraint sets. <i>Automatica</i> , <b>2021</b> , 131, 109738	5.7	1
12	Dichotomous Feedback: A Signal Sequestration-based Feedback Mechanism for Biocontroller Design		1
11	Genome-Scale Metabolic Modelling of Lifestyle Changes in Rhizobium leguminosarum.. <i>MSystems</i> , <b>2022</b> , e0097521	7.6	0
10	Decomposed structured subsets for semidefinite and sum-of-squares optimization. <i>Automatica</i> , <b>2022</b> , 137, 110125	5.7	0

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|---|---|-----|---|
| 9 | State-feedback design for nonlinear saturating systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1   | 5.9 | ○ |
| 8 | On the exact feasibility of convex scenario programs with discarded constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1                            | 5.9 | ○ |
| 7 | Block Factor-width-two Matrices and Their Applications to Semidefinite and Sum-of-squares Optimization. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1     | 5.9 | ○ |
| 6 | Dichotomous feedback: a signal sequestration-based feedback mechanism for biocontroller design.. <i>Journal of the Royal Society Interface</i> , <b>2022</b> , 19, 20210737   | 4.1 | ○ |
| 5 | Feedback Control and Synthetic Biology: Constraints on Design. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10932-10937   |     |   |
| 4 | SOS for Nonlinear Delayed Models in Biology and Networking. <i>Lecture Notes in Control and Information Sciences</i> , <b>2009</b> , 133-143                                  | 0.5 |   |
| 3 | Model Invalidation <b>2013</b> , 1395-1398  |     |   |
| 2 | Control Reconfiguration of Dynamical Systems for Improved Performance via Reverse- and Forward-engineering. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1 | 5.9 |   |
| 1 | Probing Intercell Variability Using Bulk Measurements. <i>ACS Synthetic Biology</i> , <b>2018</b> , 7, 1528-1537  | 5.7 |   |