Wim Michiels

List of Publications by Year in Descending Order

180 papers	3,639 citations	29 h-index	57 g-index
201 ext. papers	4,317 ext. citations	2.5 avg, IF	5.84 L-index

#	Paper	IF	Citations
180	Analysis and Design of Strongly Stabilizing PID Controllers for Time-Delay Systems. *SIAM Journal on Control and Optimization*, **2022**, 60, 124-146	1.9	0
179	Controlling the variable length pendulum: Analysis and Lyapunov based design methods. *Journal of the Franklin Institute*, **2022**, 359, 1382-1406	4	0
178	Tensor-Krylov method for computing eigenvalues of parameter-dependent matrices. *Journal of Computational and Applied Mathematics*, **2022**, 408, 113869	2.4	0
177	A novel act-and-wait control scheme for fixed-time stabilization of input-delay systems and assignment of the monodromy matrix. *International Journal of Robust and Nonlinear Control*, **2022**, 32, 987	3.6	0
176	A Method for Computation and Analysis of Partial Synchronization Manifolds of Delay Coupled Systems. *Advances in Delays and Dynamics*, **2022**, 209-230	0.3	
175	Analysis and optimized design of an actively controlled two-dimensional delayed resonator. *Mechanical Systems and Signal Processing*, **2022**, 178, 109195	7.8	1
174	Stabilization with Zero Location Constraints for Delay-Based Non-collocated Vibration Suppression. *IFAC-PapersOnLine*, **2021**, 54, 121-126	0.7	0
173	Distributed Observers With Time-Varying Delays. *IEEE Transactions on Automatic Control*, **2021**, 66, 5354-5361	5.9	2
172	A pseudo-spectrum based characterization of the robust strong H-infinity norm of time-delay systems with real-valued and structured uncertainties. *IMA Journal of Mathematical Control and Information*, **2021**, 38, 267-296	1.1	2
171	Detecting coexisting oscillatory patterns in delay coupled Lur'e systems. *Chaos*, **2021**, 31, 033114	3.3	
170	Strong Stability Analysis of Linear Delay-Difference Equations With Multiple Time Delays. *IEEE Transactions on Automatic Control*, **2021**, 66, 3741-3748	5.9	2
169	. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	5
168	A simple finite-time distributed observer design for linear time-invariant systems. *Systems and Control Letters*, **2020**, 141, 104707	2.4	10
167	On the dual linear periodic time-delay system: Spectrum and Lyapunov matrices, with application to analysis and balancing. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 3906-3922	3.6	3
166	Design of L2 stable fixed-order decentralised controllers in a network of sampled-data systems with time-delays. *European Journal of Control*, **2020**, 56, 73-85	2.5	1
165	Robust partial synchronization of delay-coupled networks. *Chaos*, **2020**, 30, 013126	3.3	3
164	Pseudo predictor feedback stabilisation of linear systems with both state and input delays. *International Journal of Control*, **2020**, 1-11	1.5	2

163	Pseudospectral method for assessing stability robustness for linear time-periodic delayed dynamical systems. *International Journal for Numerical Methods in Engineering*, **2020**, 121, 3505-3528	2.4	5
162	On the strong H2 norm of differential algebraic systems with multiple delays: finiteness criteria, regularization and computation. *IEEE Transactions on Automatic Control*, **2020**, 1-1	5.9	1
161	Spectral Properties and Lyapunov Matrices of Primal - Dual Periodic Time-Delay systems, with Application to Balancing. *IFAC-PapersOnLine*, **2020**, 53, 4351-4356	0.7	
160	A Novel Method to Compute the Structured Distance to Instability for Combined Uncertainties on Delays and System Matrices. *IEEE Transactions on Automatic Control*, **2020**, 65, 1747-1754	5.9	7
159	On the m-dimensional Cayley–Hamilton theorem and its application to an algebraic decision problem inferred from the H2 norm analysis of delay systems. *Automatica*, **2020**, 113, 108761	5.7	3
158	Robust stability of milling operations based on pseudospectral approach. *International Journal of Machine Tools and Manufacture*, **2020**, 149, 103516	9.4	16
157	On the fixed-time stabilization of input delay systems using act-and-wait control. *Systems and Control Letters*, **2020**, 146, 104807	2.4	2
156	Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-10	7.3	2
155	Spectrum-based Stability Analysis and Stabilization of Time-periodic Time-delay Systems. *SIAM Journal on Matrix Analysis and Applications*, **2020**, 41, 1284-1311	1.5	1
154	Design of robust decentralised controllers for MIMO plants with delays through network structure exploitation. *International Journal of Control*, **2020**, 93, 2275-2289	1.5	7
153	Analysis and Computation of the $\mathcal {H}_2$ Norm of Delay Differential Algebraic Equations. *IEEE Transactions on Automatic Control*, **2020**, 65, 2192-2199	5.9	3
152	Design of a distributed finite-time observer using observability decompositions **2019**,		1
151	Computing Delay Lyapunov Matrices and $\mathcal{H}_2$ Norms for Large-scale Problems. *SIAM Journal on Matrix Analysis and Applications*, **2019**, 40, 845-869	1.5	4
150	Polynomial (chaos) approximation of maximum eigenvalue functions. *Numerical Algorithms*, **2019**, 82, 1143-1169	2.1	3
149	Characterization and optimization of the smoothed spectral abscissa for time-delay systems. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 4402-4418	3.6	4
148	A globally convergent method to compute the real stability radius for time-delay systems. *Systems and Control Letters*, **2019**, 127, 44-51	2.4	1
147	Design of delay-based output-feedback controllers optimizing a quadratic cost function via the delay Lyapunov matrix. *Automatica*, **2019**, 107, 146-153	5.7	6
146	A Note on Distributed Finite-Time Observers. *IEEE Transactions on Automatic Control*, **2019**, 64, 759-766	5.9	20

145	Design of pseudo-predictor feedback for neutral-type linear systems with both state and input delays. *Automatica*, **2019**, 109, 108502	5.7	8
144	Analysis and design aspects of delayed resonator absorber with position, velocity or acceleration feedback. *Journal of Sound and Vibration*, **2019**, 459, 114831	3.9	12
143	Calculating the minimal/maximal eigenvalue of symmetric parameterized matrices using projection. *Numerical Linear Algebra With Applications*, **2019**, 26, e2263	1.6	1
142	A design approach for structured controllers for uncertain delay systems grounded in the real structured pseudospectra framework **2019**, 185-207		
141	Achieving an $\mathcal{L}_{2}$ string stable one vehicle look-ahead platoon with heterogeneity in time-delays **2019**,		2
140	A Comparison of Shaper-Based and Shaper-Free Architectures for Feedforward Compensation of Flexible Modes. *Advances in Delays and Dynamics*, **2019**, 233-247	0.3	1
139	Pseudo Predictor Feedback Stabilization of Linear Systems with Both State and Input Delays* **2019**,		1
138	Damping a pendulum's swing by string length adjustment - design and comparison of various control methods **2019**,		3
137	Optimization of the Smoothed Spectral Abscissa for Retarded Type Systems. *IFAC-PapersOnLine*, **2019**, 52, 67-72	0.7	1
136	Computing the robust H-infinity norm of time-delay LTI systems with real-valued and structured uncertainties. *IFAC-PapersOnLine*, **2019**, 52, 127-132	0.7	1
135	Pattern Analysis in Networks of Diffusively Coupled Lur'e Systems. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1950200	2	2
134	Optimized design of robust resonator with distributed time-delay. *Journal of Sound and Vibration*, **2019**, 443, 576-590	3.9	9
133	Control design and experimental validation for flexible multi-body systems pre-compensated by inverse shapers. *Systems and Control Letters*, **2018**, 113, 93-100	2.4	4
132	A Subspace Method for Large-Scale Eigenvalue Optimization. *SIAM Journal on Matrix Analysis and Applications*, **2018**, 39, 48-82	1.5	10
131	Comparison of the Time-Delay Margin of a Distributed and Centralized Observer **2018**,		3
130	Design of robust structurally constrained controllers for MIMO plants with time-delays **2018**,		4
129	Spectral design of robust delayed resonator by double-root assignment. *IFAC-PapersOnLine*, **2018**, 51, 72-77	0.7	5
128	Robust stabilisation of linear time-delay systems with uncertainties in the system matrices and in the delay terms. *IFAC-PapersOnLine*, **2018**, 51, 312-317	0.7	5

127	Pattern Prediction in Networks of Diffusively Coupled Nonlinear Systems. *IFAC-PapersOnLine*, **2018**, 51, 62-67	0.7	1
126	A Lyapunov approach to stability analysis of partial synchronization in delay-coupled networks. *IFAC-PapersOnLine*, **2018**, 51, 198-204	0.7	1
125	A scalable design method for stabilising decentralised controllers for networks of delay-coupled systems. *IFAC-PapersOnLine*, **2018**, 51, 68-73	0.7	1
124	Stability analysis of linear time-varying time-delay systems by non-quadratic Lyapunov functions with indefinite derivatives. *Systems and Control Letters*, **2018**, 122, 77-85	2.4	10
123	**2018**,		6
122	Optimization of the $\mathcal{H}_2$ Norm for Single-Delay Systems, With Application to Control Design and Model Approximation. *IEEE Transactions on Automatic Control*, **2018**, 1-1	5.9	0
121	Stability Analysis of Equilibria of Linear Delay Complementarity Systems **2017**, 1, 158-163		4
120	Robust stability optimization for linear delay systems in a probabilistic framework. *Linear Algebra and Its Applications*, **2017**, 526, 1-26	0.9	5
119	An Explicit Formula for the Splitting of Multiple Eigenvalues for Nonlinear Eigenvalue Problems and Connections with the Linearization for the Delay Eigenvalue Problem. *SIAM Journal on Matrix Analysis and Applications*, **2017**, 38, 599-620	1.5	16
118	Distributed delay input shaper design by optimizing smooth kernel functions. *Journal of the Franklin Institute*, **2017**, 354, 5463-5485	4	9
117	Reduced modelling and fixed-order control of delay systems applied to a heat exchanger. *IET Control Theory and Applications*, **2017**, 11, 3341-3352	2.5	9
116	Mixed-sensitivity design of a dynamic controller for systems pre-compensated by input shapers. *IFAC-PapersOnLine*, **2017**, 50, 1304-1309	0.7	2
115	A Connection Between Strangeness-Free Delay Differential-Algebraic and Neutral Type Systems * *This work was supported by the Programme of Interuniversity Attraction Poles of the Belgian Federal Science Policy Office, by the Optimization in Engineering Center OPTEC of the KU Leuven, the Research Foundation-Flanders, and by the project UCoCoS, funded by the European Unions	0.7	0
114	Input Shaper Optimization with a Constraint on the Spectrum Distribution. *IFAC-PapersOnLine*, **2017**, 50, 13324-13329. Alexey Egorov acknowledge Sain. *IFAC-PapersOnLine*, **2017**, 50, 1286-1291	0.7	2
113	Computation of pseudospectral abscissa for large-scale nonlinear eigenvalue problems. *IMA Journal of Numerical Analysis*, **2017**, drw065	1.8	1
112	A distributed finite-time observer for linear systems **2017**,		3
111	An SL/QP Algorithm for Minimizing the Spectral Abscissa of Time Delay Systems. *Advances in Delays and Dynamics*, **2017**, 33-45	0.3	1
110	Delays Effects in Dynamical Systems and Networks: Analysis and Control Interpretations. *Lecture Notes in Control and Information Sciences*, **2017**, 123-136	0.5	

109	Estimation of basins of attraction for controlled systems with input saturation and time-delays. *Systems and Control Letters*, **2016**, 94, 84-91	2.4	3
108	Characterization and Computation of Partial Synchronization Manifolds for Diffusive Delay-Coupled Systems. *SIAM Journal on Applied Dynamical Systems*, **2016**, 15, 1874-1915	2.8	5
107	A rank-exploiting infinite Arnoldi algorithm for nonlinear eigenvalue problems. *Numerical Linear Algebra With Applications*, **2016**, 23, 607-628	1.6	8
106	Model Order Reduction for Time-Delay Systems, with Application to Fixed-Order (mathscr {H}_2) Optimal Controller Design. *Advances in Delays and Dynamics*, **2016**, 45-66	0.3	3
105	Effect of a distributed delay on relative stability of diffusely coupled systems, with application to synchronized equilibria. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 1565-1582	3.6	5
104	Fixed-Order Linear Parameter-Varying Feedback Control of a Lab-Scale Overhead Crane. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 1899-1907	4.8	8
103	Multi-criteria optimisation design of shapers with piece-wise equally distributed time-delay. *IFAC-PapersOnLine*, **2016**, 49, 112-117	0.7	3
102	Compact Rational Krylov Methods for Nonlinear Eigenvalue Problems. *SIAM Journal on Matrix Analysis and Applications*, **2015**, 36, 820-838	1.5	38
101	Some special cases in the stability analysis of multi-dimensional time-delay systems using the matrix Lambert W function. *Automatica*, **2015**, 53, 339-345	5.7	12
100	Computation of extremum singular values and the strong H-infinity norm of SISO time-delay systems. *Automatica*, **2015**, 54, 266-271	5.7	6
99	Model reduction for delay differential equations with guaranteed stability and error bound. *Automatica*, **2015**, 55, 132-139	5.7	13
98	Linearization of Lagrange and Hermite interpolating matrix polynomials. *IMA Journal of Numerical Analysis*, **2015**, 35, 909-930	1.8	16
97	Evaluating and Approximating FIR Filters: An Approach Based on Functions of Matrices. *IEEE Transactions on Automatic Control*, **2015**, 60, 463-468	5.9	6
96	Special Cases in Using the Matrix Lambert W function for the Stability Analysis of High-Order Linear Systems with Time Delay**This work was supported in part by the Coimbra Group under its program of scholarships for young professors and researchers of Latin America and by the Programme of Interuniversity Attraction Poles of the Belgian Federal Science Policy Office (IAP	0.7	2
95	Spectral design of output feedback controllers for systems pre-compensated by input shapers. *IFAC-PapersOnLine*, **2015**, 48, 117-122	0.7	3
94	Sufficient LMI conditions for reduced-order multi-objective H2/H∞ control of LTI systems. *European Journal of Control*, **2015**, 23, 17-25	2.5	18
93	Fast algorithms for computing the distance to instability of nonlinear eigenvalue problems, with application to time-delay systems. *International Journal of Dynamics and Control*, **2014**, 2, 133	1.7	1
92	Determining bound states in a semiconductor device with contacts using a nonlinear eigenvalue solver. *Journal of Computational Electronics*, **2014**, 13, 753-762	1.8	3

91	An Inverse Iteration Method for Eigenvalue Problems with Eigenvector Nonlinearities. *SIAM Journal of Scientific Computing*, **2014**, 36, A1978-A2001	2.6	14
90	Computing a Partial Schur Factorization of Nonlinear Eigenvalue Problems Using the Infinite Arnoldi Method. *SIAM Journal on Matrix Analysis and Applications*, **2014**, 35, 411-436	1.5	14
89	Tuning an H-Infinity Controller with a Given Order and a Structure for Interconnected Systems with Delays. *Advances in Delays and Dynamics*, **2014**, 95-110	0.3	
88	Eigenvalue Based Algorithms and Software for the Design of Fixed-Order Stabilizing Controllers for Interconnected Systems with Time-Delays. *Advances in Delays and Dynamics*, **2014**, 243-256	0.3	4
87	NLEIGS: A Class of Fully Rational Krylov Methods for Nonlinear Eigenvalue Problems. *SIAM Journal of Scientific Computing*, **2014**, 36, A2842-A2864	2.6	48
86	Networks of diffusively time-delay coupled systems: Conditions for synchronization and its relation to the network topology. *Physica D: Nonlinear Phenomena*, **2014**, 277, 22-39	3.3	19
85	A Rational Krylov Method Based on Hermite Interpolation for Nonlinear Eigenvalue Problems. *SIAM Journal of Scientific Computing*, **2013**, 35, A327-A350	2.6	33
84	Computing the distance to instability for large-scale nonlinear eigenvalue problems **2013**,		1
83	Model reduction of time-delay systems using position balancing and delay Lyapunov equations. *Mathematics of Control, Signals, and Systems*, **2013**, 25, 147-166	1.3	26
82	Synchronization of coupled nonlinear oscillators with shifted gamma-distributed delays **2013**,		3
81	Prediction of partial synchronization in delay-coupled nonlinear oscillators, with application to Hindmarsh Rose neurons. *Nonlinearity*, **2013**, 26, 3101-3126	1.7	8
80	Computing the H2 norm of large-scale time-delay systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 114-119		0
79	Prediction of Partially Synchronous Regimes of Delay-Coupled Nonlinear Oscillators. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 699-704		
78	Root locus for SISO dead-time systems: A continuation based approach. *Automatica*, **2012**, 48, 480-489	5.7	11
77	An Iterative Method for Computing the Pseudospectral Abscissa for a Class of Nonlinear Eigenvalue Problems. *SIAM Journal of Scientific Computing*, **2012**, 34, A2366-A2393	2.6	12
76	An inner convex approximation algorithm for BMI optimization and applications in control **2012**,		8
75	Event-driven simulation of power electronics in the complementarity systems framework **2012**,		2
74	Combining Convex Concave Decompositions and Linearization Approaches for Solving BMIs, With Application to Static Output Feedback. *IEEE Transactions on Automatic Control*, **2012**, 57, 1377-1390	5.9	99

73	A linear eigenvalue algorithm for the nonlinear eigenvalue problem. *Numerische Mathematik*, **2012**, 122, 169-195	2.2	49
72	Reliably computing all characteristic roots of delay differential equations in a given right half plane using a spectral method. *Journal of Computational and Applied Mathematics*, **2012**, 236, 2499-2514	2.4	86
71	Eigenvalue based analysis and controller synthesis for systems described by delay differential algebraic equations. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 144-149		1
70	Design of Fixed-Order Stabilizing and (mathcal{H}_2) - (mathcal{H}_infty) Optimal Controllers: An Eigenvalue Optimization Approach. *Lecture Notes in Control and Information Sciences*, **2012**, 201-216	0.5	1
69	The Infinite Arnoldi Method and an Application to Time-Delay Systems with Distributed Delays. *Lecture Notes in Control and Information Sciences*, **2012**, 229-239	0.5	3
68	Stability and Stabilization of Systems with Time Delay. *IEEE Control Systems*, **2011**, 31, 38-65	2.9	365
67	Using spectral discretisation for the optimal H 2 design of time-delay systems. *International Journal of Control*, **2011**, 84, 228-241	1.5	14
66	Characterizing and Computing the ${cal H}_{2}$ Norm of Time-Delay Systems by Solving the Delay Lyapunov Equation. *IEEE Transactions on Automatic Control*, **2011**, 56, 814-825	5.9	64
65	Computing all Pairs (﹐) Such That ﹐ Is a Double Eigenvalue of A+﹐B. *SIAM Journal on Matrix Analysis and Applications*, **2011**, 32, 902-927	1.5	10
64	Fixed-Order H-Infinity Control for Interconnected Systems Using Delay Differential Algebraic Equations. *SIAM Journal on Control and Optimization*, **2011**, 49, 2212-2238	1.9	37
63	Krylov-Based Model Order Reduction of Time-delay Systems. *SIAM Journal on Matrix Analysis and Applications*, **2011**, 32, 1399-1421	1.5	42
62	Fixed-order strong H-infinity control of interconnected systems with time-delays. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 12544-12549		2
61	On the sensitivity of the H﹐ norm of systems described by delay differential algebraic equations. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 1447-1452		
60	Spectrum-based stability analysis and stabilisation of systems described by delay differential algebraic equations. *IET Control Theory and Applications*, **2011**, 5, 1829-1842	2.5	78
59	Analyzing the convergence factor of residual inverse iteration. *BIT Numerical Mathematics*, **2011**, 51, 937-957	1.7	13
58	Computing singularities of perturbation series. *Physical Review A*, **2011**, 83,	2.6	5
57	A projection approach for model reduction of large-scale time-delay systems, with application to a boundary controlled PDE **2011**,		1
56	A systems theoretic analysis of fast varying and state dependent delays **2011**,		4

#	Reference		
55	Stability Analysis of Oscillatory Systems Subject to Large Delays: A Synchronization Point of View. *JVC/Journal of Vibration and Control*, **2010**, 16, 1087-1110	2	6
54	Fixed-Order H-infinity Optimization of Time-Delay Systems **2010**, 103-112		2
53	Synthesis of strongly stable state-derivative controllers for a time-delay system using constrained non-smooth optimization. *IMA Journal of Mathematical Control and Information*, **2010**, 27, 437-455	1.1	21
52	Characterization and Computation of $\mathcal{H}_{\infty}$ Norms for Time-Delay Systems. *SIAM Journal on Matrix Analysis and Applications*, **2010**, 31, 2093-2115	1.5	17
51	A Krylov Method for the Delay Eigenvalue Problem. *SIAM Journal of Scientific Computing*, **2010**, 32, 3278-3300	2	55
50	A predictor-corrector type algorithm for the pseudospectral abscissa computation of time-delay systems. *Automatica*, **2010**, 46, 657-664	5.7	19
49	Control design for time-delay systems based on quasi-direct pole placement. *Journal of Process Control*, **2010**, 20, 337-343	3.9	58
48	Invariance properties in the root sensitivity of time-delay systems with double imaginary roots. *Automatica*, **2010**, 46, 1112-1115	5.7	31
47	Stability impact of small delays in proportional-derivative state feedback. *Control Engineering Practice*, **2009**, 17, 382-393	3.9	28
46	Robustness assessment via stability radii in delay parameters. *International Journal of Robust and Nonlinear Control*, **2009**, 19, 1405-1426	3.6	13
45	Stability analysis of systems with stochastically varying delays. *Systems and Control Letters*, **2009**, 58, 783-791	2.4	18
44	Delay Effects on Output Feedback Control of Dynamical Systems. *Understanding Complex Systems*, **2009**, 63-84	0.4	4
43	Stabilizability via Time-Delayed Feedback: An Eigenvalue Optimization Approach. *SIAM Journal on Applied Dynamical Systems*, **2009**, 8, 1-20	2.8	12
42	Synchronization of delay-coupled nonlinear oscillators: an approach based on the stability analysis of synchronized equilibria. *Chaos*, **2009**, 19, 033110	3.3	45
41	The Smoothed Spectral Abscissa for Robust Stability Optimization. *SIAM Journal on Optimization*, **2009**, 20, 156-171	2	30
40	Stabilizability and Stability Robustness of State Derivative Feedback Controllers. *SIAM Journal on Control and Optimization*, **2009**, 47, 3100-3117	1.9	22
39	Strong Stability of Neutral Equations with an Arbitrary Delay Dependency Structure. *SIAM Journal on Control and Optimization*, **2009**, 48, 763-786	1.9	33
38	Consensus Problems with Distributed Delays, with Application to Traffic Flow Models. *SIAM Journal on Control and Optimization*, **2009**, 48, 77-101	1.9	73

37	Smooth stabilization and optimal H2 design. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 23-28	2	
36	Computing the Pseudospectral Abscissa of Time-Delay Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 130-135		
35	Invariance properties in the root sensitivity of time-delay systems with double imaginary roots. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 142-147		
34	Optimization based synthesis of state derivative feedback controllers for retarded systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 162-167	1	
33	Quasi-direct pole placement for time delay systems applied to a heat transfer set-up. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 325-330	3	
32	Further remarks on stabilizing chains of integrators by using network delays **2009**,	2	
31	On Moment Stability of Linear Systems with a Stochastic Delay Variation. *Lecture Notes in Control and Information Sciences*, **2009**, 3-13	0.5	
30	A nonsmooth optimisation approach for the stabilisation of time-delay systems. *ESAIM - Control, Optimisation and Calculus of Variations*, **2008**, 14, 478-493	1	78
29	Structured pseudospectra for nonlinear eigenvalue problems. *Journal of Computational and Applied Mathematics*, **2008**, 212, 245-259	2.4	13
28	Consensus problems for car following systems with distributed delays **2007**,	3	
27	On stability radii in delay parameters. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 322-329		
26	Geometric Ideas in the Stability Analysis of Delay Models in Biosciences. *Lecture Notes in Control and Information Sciences*, **2007**, 217-259	0.5	3
25	Mathematical and Computational Tools for the Stability Analysis of Time-Varying Delay Systems and Applications in Mechanical Engineering **2007**, 199-216	2	
24	Characterization of Delay-Independent Stability and Delay Interference Phenomena. *SIAM Journal on Control and Optimization*, **2007**, 45, 2138-2155	1.9	28
23	Stability and Stabilization of Time-Delay Systems **2007**,	412	
22	Structured Pseudospectra and Random Eigenvalues Problems in Vibrating Systems. *AIAA Journal*, **2006**, 44, 2404-2414	2.1	1
21	Stability analysis of some classes of TCP/AQM networks. *International Journal of Control*, **2006**, 79, 1136-1144	1.3	25
20	Inverse Routh table construction and stability of delay equations. *Systems and Control Letters*, **2006**, 55, 711-718	2.4	4

19	Pseudospectra and stability radii for analytic matrix functions with application to time-delay systems. *Linear Algebra and Its Applications*, **2006**, 418, 315-335	0.9	37
18	Stabilization of time-delay systems with a Controlled time-varying delay and applications. *IEEE Transactions on Automatic Control*, **2005**, 50, 493-504	5.9	95
17	An eigenvalue based approach for the stabilization of linear time-delay systems of neutral type. *Automatica*, **2005**, 41, 991-998	5.7	122
16	STABILITY ANALYSIS OF A FLUID FLOW MODEL FOR TCP LIKE BEHAVIOR. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2005**, 15, 2277-2282	2	8
15	Static output feedback stabilization: necessary conditions for multiple delay controllers. *IEEE Transactions on Automatic Control*, **2005**, 50, 82-86	5.9	103
14	Stabilizing a chain of integrators using multiple delays. *IEEE Transactions on Automatic Control*, **2004**, 49, 802-807	5.9	127
13	Using delays and time-varying gains to improve the static output feedback stabilizability of linear systems: a comparison. *IMA Journal of Mathematical Control and Information*, **2004**, 21, 393-418	1.1	40
12	Finite spectrum assignment of unstable time-delay systems with a safe implementation. *IEEE Transactions on Automatic Control*, **2003**, 48, 2207-2212	5.9	248
11	Improving the static output feedback stabilizability of linear systems by introducing delays and time-varying gains: A comparison. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2003**, 36, 357-362		
10	Some remarks on static output feedback stabilization problem: Necessary conditions for multiple delay controllers **2003**,		3
9	On the delay sensitivity of Smith Predictors. *International Journal of Systems Science*, **2003**, 34, 543-551	2.3	58
8	An eigenvalue based approach for the robust stabilization of linear time-delay systems. *International Journal of Control*, **2003**, 76, 678-686	1.5	28
7	Robustness of Nonlinear Delay Equations with Respect to Input Perturbations: a Trajectory-Based Approach. *Mathematics of Control, Signals, and Systems*, **2002**, 15, 316-335	1.3	5
6	Continuous pole placement for delay equations. *Automatica*, **2002**, 38, 747-761	5.7	187
5	LIMITATIONS OF DELAYED STATE FEEDBACK: A NUMERICAL STUDY. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2002**, 12, 1309-1320	2	6
4	Sensitivity to perturbations in variable structure systems. *Journal of Computational and Applied Mathematics*, **2001**, 132, 127-140	2.4	3
3	Bifurcation analysis of three-phase ferroresonant oscillations in ungrounded power systems. *IEEE Transactions on Power Delivery*, **1999**, 14, 531-536	4.3	12
2	A scalable method for the analysis of networked linear systems with decentralized sampled-data control. *International Journal of Robust and Nonlinear Control*,	3.6	1

1   Stabilisation of distributed time-delay systems: a smoothed spectral abscissa optimisation approach. *International Journal of Control*,1-13   1.5   0

1   Stabilisation of distributed time-delay systems: a smoothed spectral abscissa optimisation approach. *International Journal of Control*,1-13   1.5   0