

Wim Michiels

List of Publications by Year in descending order

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195
papers

4,881
citations

136740

32
h-index

123241

61
g-index

201
all docs

201
docs citations

201
times ranked

1986
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and Stabilization of Systems with Time Delay. IEEE Control Systems, 2011, 31, 38-65.	1.0	489
2	Finite spectrum assignment of unstable time-delay systems with a safe implementation. IEEE Transactions on Automatic Control, 2003, 48, 2207-2212.	3.6	325
3	Continuous pole placement for delay equations. Automatica, 2002, 38, 747-761.	3.0	224
4	Stabilizing a Chain of Integrators Using Multiple Delays. IEEE Transactions on Automatic Control, 2004, 49, 802-807.	3.6	174
5	Combining Convex and Concave Decompositions and Linearization Approaches for Solving BMIs, With Application to Static Output Feedback. IEEE Transactions on Automatic Control, 2012, 57, 1377-1390.	3.6	155
6	Static output feedback stabilization: necessary conditions for multiple delay controllers. IEEE Transactions on Automatic Control, 2005, 50, 82-86.	3.6	151
7	An eigenvalue based approach for the stabilization of linear time-delay systems of neutral type. Automatica, 2005, 41, 991-998.	3.0	136
8	Stabilization of time-delay systems with a Controlled time-varying delay and applications. IEEE Transactions on Automatic Control, 2005, 50, 493-504.	3.6	127
9	Consensus Problems with Distributed Delays, with Application to Traffic Flow Models. SIAM Journal on Control and Optimization, 2009, 48, 77-101.	1.1	103
10	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.	1.1	99
11	Spectrum-based stability analysis and stabilisation of systems described by delay differential algebraic equations. IET Control Theory and Applications, 2011, 5, 1829-1842.	1.2	91
12	Characterizing and Computing the $\ H\ _2$ Norm of Time-Delay Systems by Solving the Delay Lyapunov Equation. IEEE Transactions on Automatic Control, 2011, 56, 814-825.	3.6	83
13	A nonsmooth optimisation approach for the stabilisation of time-delay systems. ESAIM - Control, Optimisation and Calculus of Variations, 2008, 14, 478-493.	0.7	82
14	On the delay sensitivity of Smith Predictors. International Journal of Systems Science, 2003, 34, 543-551.	3.7	71
15	Control design for time-delay systems based on quasi-direct pole placement. Journal of Process Control, 2010, 20, 337-343.	1.7	71
16	A Krylov Method for the Delay Eigenvalue Problem. SIAM Journal of Scientific Computing, 2010, 32, 3278-3300.	1.3	63
17	NLEIGS: A Class of Fully Rational Krylov Methods for Nonlinear Eigenvalue Problems. SIAM Journal of Scientific Computing, 2014, 36, A2842-A2864.	1.3	60
18	Krylov-Based Model Order Reduction of Time-delay Systems. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 1399-1421.	0.7	59

#	ARTICLE	IF	CITATIONS
19	A linear eigenvalue algorithm for the nonlinear eigenvalue problem. <i>Numerische Mathematik</i> , 2012, 122, 169-195.	0.9	54
20	Using delays and time-varying gains to improve the static output feedback stabilizability of linear systems: a comparison. <i>IMA Journal of Mathematical Control and Information</i> , 2004, 21, 393-418.	1.1	49
21	Synchronization of delay-coupled nonlinear oscillators: An approach based on the stability analysis of synchronized equilibria. <i>Chaos</i> , 2009, 19, 033110.	1.0	49
22	Fixed-Order H-Infinity Control for Interconnected Systems Using Delay Differential Algebraic Equations. <i>SIAM Journal on Control and Optimization</i> , 2011, 49, 2212-2238.	1.1	48
23	Compact Rational Krylov Methods for Nonlinear Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2015, 36, 820-838.	0.7	48
24	Pseudospectra and stability radii for analytic matrix functions with application to time-delay systems. <i>Linear Algebra and Its Applications</i> , 2006, 418, 315-335.	0.4	41
25	Invariance properties in the root sensitivity of time-delay systems with double imaginary roots. <i>Automatica</i> , 2010, 46, 1112-1115.	3.0	41
26	A Rational Krylov Method Based on Hermite Interpolation for Nonlinear Eigenvalue Problems. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A327-A350.	1.3	40
27	Strong Stability of Neutral Equations with an Arbitrary Delay Dependency Structure. <i>SIAM Journal on Control and Optimization</i> , 2009, 48, 763-786.	1.1	38
28	A Note on Distributed Finite-Time Observers. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 759-766.	3.6	37
29	Characterization of Delay-Independent Stability and Delay Interference Phenomena. <i>SIAM Journal on Control and Optimization</i> , 2007, 45, 2138-2155.	1.1	35
30	Analysis and design aspects of delayed resonator absorber with position, velocity or acceleration feedback. <i>Journal of Sound and Vibration</i> , 2019, 459, 114831.	2.1	35
31	Stability analysis of some classes of TCP/AQM networks. <i>International Journal of Control</i> , 2006, 79, 1136-1144.	1.2	34
32	The Smoothed Spectral Abscissa for Robust Stability Optimization. <i>SIAM Journal on Optimization</i> , 2009, 20, 156-171.	1.2	34
33	Model reduction of time-delay systems using position balancing and delay Lyapunov equations. <i>Mathematics of Control, Signals, and Systems</i> , 2013, 25, 147-166.	1.4	34
34	An eigenvalue based approach for the robust stabilization of linear time-delay systems. <i>International Journal of Control</i> , 2003, 76, 678-686.	1.2	32
35	Stability impact of small delays in proportional-derivative state feedback. <i>Control Engineering Practice</i> , 2009, 17, 382-393.	3.2	32
36	Stabilizability and Stability Robustness of State Derivative Feedback Controllers. <i>SIAM Journal on Control and Optimization</i> , 2009, 47, 3100-3117.	1.1	27

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37	A simple finite-time distributed observer design for linear time-invariant systems. <i>Systems and Control Letters</i> , 2020, 141, 104707.	1.3	27
38	Stability analysis of systems with stochastically varying delays. <i>Systems and Control Letters</i> , 2009, 58, 783-791.	1.3	26
39	Sufficient LMI conditions for reduced-order multi-objective control of LTI systems. <i>European Journal of Control</i> , 2015, 23, 17-25.	1.6	26
40	Optimized design of robust resonator with distributed time-delay. <i>Journal of Sound and Vibration</i> , 2019, 443, 576-590.	2.1	26
41	Synthesis of strongly stable state-derivative controllers for a time-delay system using constrained non-smooth optimization. <i>IMA Journal of Mathematical Control and Information</i> , 2010, 27, 437-455.	1.1	25
42	An Explicit Formula for the Splitting of Multiple Eigenvalues for Nonlinear Eigenvalue Problems and Connections with the Linearization for the Delay Eigenvalue Problem. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2017, 38, 599-620.	0.7	25
43	Robust stability of milling operations based on pseudospectral approach. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 149, 103516.	6.2	25
44	Fixed-Time Stabilization of Linear Delay Systems by Smooth Periodic Delayed Feedback. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 557-573.	3.6	25
45	An Inverse Iteration Method for Eigenvalue Problems with Eigenvector Nonlinearities. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A1978-A2001.	1.3	23
46	Some special cases in the stability analysis of multi-dimensional time-delay systems using the matrix Lambert W function. <i>Automatica</i> , 2015, 53, 339-345.	3.0	23
47	Characterization and Computation of \mathcal{H}_∞ Norms for Time-Delay Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010, 31, 2093-2115.	0.7	22
48	A predictor-corrector type algorithm for the pseudospectral abscissa computation of time-delay systems. <i>Automatica</i> , 2010, 46, 657-664.	3.0	21
49	Networks of diffusively time-delay coupled systems: Conditions for synchronization and its relation to the network topology. <i>Physica D: Nonlinear Phenomena</i> , 2014, 277, 22-39.	1.3	21
50	Linearization of Lagrange and Hermite interpolating matrix polynomials. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 909-930.	1.5	21
51	Using spectral discretisation for the optimal H_2 design of time-delay systems. <i>International Journal of Control</i> , 2011, 84, 228-241.	1.2	19
52	Model reduction for delay differential equations with guaranteed stability and error bound. <i>Automatica</i> , 2015, 55, 132-139.	3.0	18
53	Stabilizability via Time-Delayed Feedback: An Eigenvalue Optimization Approach. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 1-20.	0.7	17
54	An inner convex approximation algorithm for BMI optimization and applications in control. , 2012, , .		17

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55	Structured pseudospectra for nonlinear eigenvalue problems. <i>Journal of Computational and Applied Mathematics</i> , 2008, 212, 245-259.	1.1	16
56	Robustness assessment via stability radii in delay parameters. <i>International Journal of Robust and Nonlinear Control</i> , 2009, 19, 1405-1426.	2.1	16
57	Computing a Partial Schur Factorization of Nonlinear Eigenvalue Problems Using the Infinite Arnoldi Method. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2014, 35, 411-436.	0.7	15
58	Fixed-Order Linear Parameter-Varying Feedback Control of a Lab-Scale Overhead Crane. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 1899-1907.	3.2	15
59	Analysis and optimized design of an actively controlled two-dimensional delayed resonator. <i>Mechanical Systems and Signal Processing</i> , 2022, 178, 109195.	4.4	15
60	Bifurcation analysis of three-phase ferroresonant oscillations in ungrounded power systems. <i>IEEE Transactions on Power Delivery</i> , 1999, 14, 531-536.	2.9	14
61	Analyzing the convergence factor of residual inverse iteration. <i>BIT Numerical Mathematics</i> , 2011, 51, 937-957.	1.0	14
62	Root locus for SISO dead-time systems: A continuation based approach. <i>Automatica</i> , 2012, 48, 480-489.	3.0	14
63	Stability analysis of linear time-varying time-delay systems by non-quadratic Lyapunov functions with indefinite derivatives. <i>Systems and Control Letters</i> , 2018, 122, 77-85.	1.3	14
64	Design of delay-based output-feedback controllers optimizing a quadratic cost function via the delay Lyapunov matrix. <i>Automatica</i> , 2019, 107, 146-153.	3.0	14
65	An Iterative Method for Computing the Pseudospectral Abscissa for a Class of Nonlinear Eigenvalue Problems. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A2366-A2393.	1.3	13
66	Distributed delay input shaper design by optimizing smooth kernel functions. <i>Journal of the Franklin Institute</i> , 2017, 354, 5463-5485.	1.9	12
67	Reduced modelling and fixed-order control of delay systems applied to a heat exchanger. <i>IET Control Theory and Applications</i> , 2017, 11, 3341-3352.	1.2	12
68	A Subspace Method for Large-Scale Eigenvalue Optimization. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2018, 39, 48-82.	0.7	12
69	Design of pseudo-predictor feedback for neutral-type linear systems with both state and input delays. <i>Automatica</i> , 2019, 109, 108502.	3.0	12
70	LIMITATIONS OF DELAYED STATE FEEDBACK: A NUMERICAL STUDY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002, 12, 1309-1320.	0.7	11
71	Delay Effects on Output Feedback Control of Dynamical Systems. <i>Understanding Complex Systems</i> , 2009, , 63-84.	0.3	11
72	Computing all Pairs $(\hat{\lambda}, \hat{v})$ Such That $\hat{\lambda}$ is a Double Eigenvalue of $A + \hat{v}v^T B$. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011, 32, 902-927.	0.7	11

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73	Distributed Observers With Time-Varying Delays. IEEE Transactions on Automatic Control, 2021, 66, 5354-5361.	3.6	11
74	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.	0.7	10
75	A rank-exploiting infinite Arnoldi algorithm for nonlinear eigenvalue problems. Numerical Linear Algebra With Applications, 2016, 23, 607-628.	0.9	10
76	Characterization and optimization of the smoothed spectral abscissa for time-delay systems. International Journal of Robust and Nonlinear Control, 2019, 29, 4402-4418.	2.1	10
77	Pseudospectral method for assessing stability robustness for linear time-periodic delayed dynamical systems. International Journal for Numerical Methods in Engineering, 2020, 121, 3505-3528.	1.5	10
78	Inverse Routh table construction and stability of delay equations. Systems and Control Letters, 2006, 55, 711-718.	1.3	9
79	Prediction of partial synchronization in delay-coupled nonlinear oscillators, with application to Hindmarsh-Rose neurons. Nonlinearity, 2013, 26, 3101-3126.	0.6	9
80	Computation of extremum singular values and the strong H-infinity norm of SISO time-delay systems. Automatica, 2015, 54, 266-271.	3.0	9
81	Computing Delay Lyapunov Matrices and H_2 Norms for Large-scale Problems. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 845-869.	0.7	9
82	Design of robust decentralised controllers for MIMO plants with delays through network structure exploitation. International Journal of Control, 2020, 93, 2275-2289.	1.2	9
83	Evaluating and Approximating FIR Filters: An Approach Based on Functions of Matrices. IEEE Transactions on Automatic Control, 2015, 60, 463-468.	3.6	8
84	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.	2.1	8
85	Spectral design of robust delayed resonator by double-root assignment. IFAC-PapersOnLine, 2018, 51, 72-77.	0.5	8
86	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.	3.6	8
87	On the fixed-time stabilization of input delay systems using act-and-wait control. Systems and Control Letters, 2020, 146, 104807.	1.3	8
88	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.	2.1	8
89	Prescribed-Time Unknown Input Observers Design by Using Periodic Delayed Output With Application to Fault Estimation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 664-674.	5.9	8
90	Stability Analysis of Oscillatory Systems Subject to Large Delays: A Synchronization Point of View. JVC/Journal of Vibration and Control, 2010, 16, 1087-1110.	1.5	7

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91	Characterization and Computation of Partial Synchronization Manifolds for Diffusive Delay-Coupled Systems. SIAM Journal on Applied Dynamical Systems, 2016, 15, 1874-1915.	0.7	7
92	Damping a pendulum's swing by string length adjustment - design and comparison of various control methods. , 2019, , .		7
93	Analysis and Design of Strongly Stabilizing PID Controllers for Time-Delay Systems. SIAM Journal on Control and Optimization, 2022, 60, 124-146.	1.1	7
94	Robustness of Nonlinear Delay Equations with Respect to Input Perturbations: a Trajectory-Based Approach. Mathematics of Control, Signals, and Systems, 2002, 15, 316-335.	1.4	6
95	Computing singularities of perturbation series. Physical Review A, 2011, 83, .	1.0	6
96	Stability Analysis of Equilibria of Linear Delay Complementarity Systems. , 2017, 1, 158-163.		6
97	Robust stabilisation of linear time-delay systems with uncertainties in the system matrices and in the delay terms. IFAC-PapersOnLine, 2018, 51, 312-317.	0.5	6
98	Computing the distance to instability for delay systems with uncertainties in the system matrices and in the delay terms. , 2018, , .		6
99	Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7295-7304.	5.9	6
100	Robust partial synchronization of delay-coupled networks. Chaos, 2020, 30, 013126.	1.0	6
101	Strong Stability Analysis of Linear Delay-Difference Equations With Multiple Time Delays. IEEE Transactions on Automatic Control, 2021, 66, 3741-3748.	3.6	6
102	Design of Fixed-Order Stabilizing and \mathcal{H}_2 - \mathcal{H}_∞ Optimal Controllers: An Eigenvalue Optimization Approach. Lecture Notes in Control and Information Sciences, 2012, , 201-216.	0.6	6
103	Geometric Ideas in the Stability Analysis of Delay Models in Biosciences. Lecture Notes in Control and Information Sciences, 2007, , 217-259.	0.6	5
104	Consensus problems for car following systems with distributed delays. , 2007, , .		5
105	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.	0.4	5
106	Robust stability optimization for linear delay systems in a probabilistic framework. Linear Algebra and Its Applications, 2017, 526, 1-26.	0.4	5
107	Comparison of the Time-Delay Margin of a Distributed and Centralized Observer. , 2018, , .		5
108	Design of robust structurally constrained controllers for MIMO plants with time-delays. , 2018, , .		5

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109	Calculating the minimal/maximal eigenvalue of symmetric parameterized matrices using projection. Numerical Linear Algebra With Applications, 2019, 26, e2263.	0.9	5
110	Analysis and Computation of the H_2 Norm of Delay Differential Algebraic Equations. IEEE Transactions on Automatic Control, 2020, 65, 2192-2199. On the H_2 Norm of Delay Differential Algebraic Equations	3.6	5
111	n -dimensional Cayley-Hamilton theorem and its application to an algebraic decision problem inferred from the H_2 norm. IEEE Transactions on Automatic Control, 2020, 65, 2192-2199. On the H_2 Norm of Delay Differential Algebraic Equations	3.0	5
112	Some remarks on static output feedback stabilization problem: Necessary conditions for multiple delay controllers. , 2003, , .		4
113	Mathematical and Computational Tools for the Stability Analysis of Time-Varying Delay Systems and Applications in Mechanical Engineering. , 2007, , 199-216.		4
114	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.	0.4	4
115	A systems theoretic analysis of fast varying and state dependent delays. , 2011, , .		4
116	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 P6 DYSCO), by OPTEC, the Optimization in Engineering Center of KU Leuven, and by the project G.0712.11N of the The Presented Research has been supported by the Czech Science Foundation under the project No. 13 06962S, by the Programme of Interuniversity Attraction Poles of the Belgian Federal Science Policy Office (IAP P6 DYSCO), by OPTEC, the Optimization in Engineering Center of the KU Leuven, and the project G.0712.11N and G.0717.11N of the Research Foundation Flanders (FWO).. IFAC-PapersOnLine, 2015, 48, 117-122.	0.5	4
117	Estimation of basins of attraction for controlled systems with input saturation and time-delays. Systems and Control Letters, 2016, 94, 84-91.	0.5	4
118	Estimation of basins of attraction for controlled systems with input saturation and time-delays. Systems and Control Letters, 2016, 94, 84-91.	1.3	4
119	Control design and experimental validation for flexible multi-body systems pre-compensated by inverse shapers. Systems and Control Letters, 2018, 113, 93-100.	1.3	4
120	Achieving an L_2 string stable one vehicle look-ahead platoon with heterogeneity in time-delays. , 2019, , .		4
121	Polynomial (chaos) approximation of maximum eigenvalue functions. Numerical Algorithms, 2019, 82, 1143-1169.	1.1	4
122	Model Order Reduction for Time-Delay Systems, with Application to Fixed-Order H_2 Optimal Controller Design. Advances in Delays and Dynamics, 2016, , 45-66.	0.4	4
123	On the Strong H_2 Norm of Differential Algebraic Systems With Multiple Delays: Finiteness Criteria, Regularization, and Computation. IEEE Transactions on Automatic Control, 2022, 67, 121-133.	3.6	4
124	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, 987-1003.	2.1	4
125	Stabilization with Zero Location Constraints for Delay-Based Non-collocated Vibration Suppression. IFAC-PapersOnLine, 2021, 54, 121-126.	0.5	4
126	Sensitivity to perturbations in variable structure systems. Journal of Computational and Applied Mathematics, 2001, 132, 127-140.	1.1	3

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127	Structured Pseudospectra and Random Eigenvalues Problems in Vibrating Systems. AIAA Journal, 2006, 44, 2404-2414.	1.5	3
128	Fixed-Order H-infinity Optimization of Time-Delay Systems. , 2010, , 103-112.		3
129	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.	0.4	3
130	Event-driven simulation of power electronics in the complementarity systems framework. , 2012, , .		3
131	Synchronization of coupled nonlinear oscillators with shifted gamma-distributed delays. , 2013, , .		3
132	Determining bound states in a semiconductor device with contacts using a nonlinear eigenvalue solver. Journal of Computational Electronics, 2014, 13, 753-762.	1.3	3
133	Multi-criteria optimisation design of shapers with piece-wise equally distributed time-delay. IFAC-PapersOnLine, 2016, 49, 112-117.	0.5	3
134	A distributed finite-time observer for linear systems. , 2017, , .		3
135	Optimization of the H2 Norm for Time-Delay Systems, with Application to Control Design and Model Approximation. IEEE Transactions on Automatic Control, 2018, , 1-1.	3.6	3
136	Design of a distributed finite-time observer using observability decompositions. , 2019, , .		3
137	Pseudo predictor feedback stabilisation of linear systems with both state and input delays. International Journal of Control, 2020, , 1-11.	1.2	3
138	The Infinite Arnoldi Method and an Application to Time-Delay Systems with Distributed Delays. Lecture Notes in Control and Information Sciences, 2012, , 229-239.	0.6	3
139	Controlling the variable length pendulum: Analysis and Lyapunov based design methods. Journal of the Franklin Institute, 2022, 359, 1382-1406.	1.9	3
140	Smooth stabilization and optimal H2 design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 23-28.	0.4	2
141	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.	0.4	2
142	Reduced-order \mathcal{H}_∞ control of discrete-time LPV systems with experimental validation on an overhead crane test setup. , 2015, , .		2
143	Mixed-sensitivity design of a dynamic controller for systems pre-compensated by input shapers. IFAC-PapersOnLine, 2017, 50, 1304-1309.	0.5	2
144	Input Shaper Optimization with a Constraint on the Spectrum Distribution * *Supported by the Czech Science Foundation under project No. 16-17398S. This work has been also supported by the Programme of Interuniversity Attraction Poles of the Belgian Federal Science Policy Office (IAP P6-DYSCO), by OPTEC, the Optimization in Engineering Center of the KU Leuven, and by the project UCoCoS, funded by the European Unions Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie Grant Agreemen. IFAC-PapersOnLine, 2017, 50, 13324-13329.	0.5	2

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145	Pattern Prediction in Networks of Diffusively Coupled Nonlinear Systems. IFAC-PapersOnLine, 2018, 51, 62-67.	0.5	2
146	A scalable design method for stabilising decentralised controllers for networks of delay-coupled systems. IFAC-PapersOnLine, 2018, 51, 68-73.	0.5	2
147	Computing the robust H-infinity norm of time-delay LTI systems with real-valued and structured uncertainties. IFAC-PapersOnLine, 2019, 52, 127-132.	0.5	2
148	Pattern Analysis in Networks of Diffusively Coupled Lurê™e Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950200.	0.7	2
149	Design of L_2 stable fixed-order decentralised controllers in a network of sampled-data systems with time-delays. European Journal of Control, 2020, 56, 73-85.	1.6	2
150	Stabilisation of distributed time-delay systems: a smoothed spectral abscissa optimisation approach. International Journal of Control, 2022, 95, 2911-2923.	1.2	2
151	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
152	Further remarks on stabilizing chains of integrators by using network delays. , 2009, , .		2
153	Optimization based synthesis of state derivative feedback controllers for retarded systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 162-167.	0.4	1
154	A projection approach for model reduction of large-scale time-delay systems, with application to a boundary controlled PDE. , 2011, , .		1
155	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.	0.4	1
156	Computing the H2 norm of large-scale time-delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 114-119.	0.4	1
157	Computing the distance to instability for large-scale nonlinear eigenvalue problems. , 2013, , .		1
158	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.	1.5	1
159	Model reduction for a class of nonlinear delay differential equations with time-varying delays. , 2015, , .		1
160	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 Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie Grant Agreement No 675080. Alexey Egorov acknowledge Sain. IFAC-PapersOnLine, 2017, 50, 1286-1291.	0.5	1
161	Computation of pseudospectral abscissa for large-scale nonlinear eigenvalue problems. IMA Journal of Numerical Analysis, 2017, , drw065.	1.5	1
162	A Lyapunov approach to stability analysis of partial synchronization in delay-coupled networks. IFAC-PapersOnLine, 2018, 51, 198-204.	0.5	1

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163	A globally convergent method to compute the real stability radius for time-delay systems. <i>Systems and Control Letters</i> , 2019, 127, 44-51.	1.3	1
164	Pseudo Predictor Feedback Stabilization of Linear Systems with Both State and Input Delays*. , 2019, , .		1
165	Optimization of the Smoothed Spectral Abscissa for Retarded Type Systems. <i>IFAC-PapersOnLine</i> , 2019, 52, 67-72.	0.5	1
166	Spectrum-based Stability Analysis and Stabilization of Time-periodic Time-delay Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2020, 41, 1284-1311.	0.7	1
167	A Comparison of Shaper-Based and Shaper-Free Architectures for Feedforward Compensation of Flexible Modes. <i>Advances in Delays and Dynamics</i> , 2019, , 233-247.	0.4	1
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