

Hans Zwart

List of Publications by Year in descending order

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92
papers

3,800
citations

279798

23
h-index

128289

60
g-index

93
all docs

93
docs citations

93
times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Pilot study on VF-waveform based algorithms for early detection of acute myocardial infarction during out-of-hospital cardiac arrest. <i>Resuscitation</i> , 2022, 174, 62-67.	3.0	3
2	Stabilization of a class of mixed ODE–PDE port-Hamiltonian systems with strong dissipation feedback. <i>Automatica</i> , 2022, 142, 110284.	5.0	1
3	Optimal Thermal Actuation for Mitigation of Heat-Induced Wafer Deformation. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 514-529.	5.2	3
4	The method of images in thermoelasticity with an application to wafer heating. <i>Journal of Thermal Stresses</i> , 2021, 44, 970-1010.	2.0	1
5	Identification of Movements and Postures Using Wearable Sensors for Implementation in a Bi-Hormonal Artificial Pancreas System. <i>Sensors</i> , 2021, 21, 5954.	3.8	1
6	Stabilization of port-Hamiltonian systems by nonlinear boundary control in the presence of disturbances. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2021, 27, 53.	1.3	6
7	Riesz Bases of Port-Hamiltonian Systems. <i>SIAM Journal on Control and Optimization</i> , 2021, 59, 4646-4665.	2.1	2
8	Sensor and Actuator Placement for Proportional Feedback Control in Advection-Diffusion Equations. , 2020, 4, 193-198.		5
9	Linear-time-varying feedforward control for position-dependent flexible structures. , 2020, , .		1
10	Port-Hamiltonian modelling of nonlocal longitudinal vibrations in a viscoelastic nanorod. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2019, 25, 447-462.	2.2	4
11	Well-posedness of infinite-dimensional linear systems with nonlinear feedback. <i>Systems and Control Letters</i> , 2019, 128, 19-25.	2.3	16
12	The ventricular fibrillation waveform in relation to shock success in early vs. late phases of out-of-hospital resuscitation. <i>Resuscitation</i> , 2019, 139, 99-105.	3.0	11
13	Zero dynamics for networks of waves. <i>Automatica</i> , 2019, 103, 310-321.	5.0	2
14	On continuity of solutions for parabolic control systems and input-to-state stability. <i>Journal of Differential Equations</i> , 2019, 266, 6284-6306.	2.2	33
15	Linear port-Hamiltonian descriptor systems. <i>Mathematics of Control, Signals, and Systems</i> , 2018, 30, 1.	2.3	71
16	An operator theoretic approach to infinite-dimensional control systems. <i>GAMM Mitteilungen</i> , 2018, 41, e201800010.	5.5	6
17	An empirical model for educational simulation of cervical dilation in first-stage labor. <i>Advances in Simulation</i> , 2018, 3, 9.	2.3	1
18	A systematic approach to optimize excitations for perturbative transport experiments. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	4

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19	Resonant-Dynamics LTV Feedforward for Flexible Motion Systems. , 2018, , .		1
20	Co-Design of Controller and Communication Topology for Vehicular Platooning. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2728-2739.	8.0	33
21	Impulsive Steering Between Coexisting Stable Periodic Solutions With an Application to Vibrating Plates. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	4
22	Stabilization of infinite dimensional port-Hamiltonian systems by nonlinear dynamic boundary control. Automatica, 2017, 85, 61-69.	5.0	34
23	A compliance feedforward scheme for a class of LTV motion systems. , 2017, , .		2
24	On the Synthesis of Boundary Control Laws for Distributed Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2017, 62, 1700-1713.	5.7	57
25	On backstepping boundary control for a class of linear port-Hamiltonian systems. , 2017, , .		2
26	Feedback theory extended for proving generation of contraction semigroups. Journal of Evolution Equations, 2016, 16, 617-647.	1.1	2
27	LPMLE3: A novel 1â€ approach to study water flow in streambeds using heat as a tracer. Water Resources Research, 2016, 52, 6596-6610.	4.2	33
28	Stabilization of collocated systems by nonlinear boundary control. Systems and Control Letters, 2016, 96, 11-14.	2.3	16
29	Asymptotic stability for a class of boundary control systems with non-linear damping**This work was supported by French sponsored projects HAMEC-MOPSYS and Labex ACTION under reference codes ANR-11-BS03-0002 and ANR-11-LABX-0001-01 respectively.. IFAC-PapersOnLine, 2016, 49, 304-308.	0.9	0
30	Building systems from simple hyperbolic ones. Systems and Control Letters, 2016, 91, 1-6.	2.3	7
31	Using System Theory and Energy Methods to prove Existence of Non-Linear PDE's. IFAC-PapersOnLine, 2015, 48, 241-243.	0.9	0
32	C 0-semigroups for hyperbolic partial differential equations on a one-dimensional spatial domain. Journal of Evolution Equations, 2015, 15, 493-502.	1.1	30
33	Zero-two law for cosine families. Journal of Evolution Equations, 2015, 15, 559-569.	1.1	9
34	Relating systems properties of the wave and the SchrÅdinger equation. Evolution Equations and Control Theory, 2015, 4, 233-240.	1.3	1
35	De Brangesâ€Rovnyak Realizations of Operator-Valued Schur Functions on the Complex Right Half-Plane. Complex Analysis and Operator Theory, 2015, 9, 723-792.	0.6	7
36	Estimation of the thermal diffusion coefficient in fusion plasmas taking frequency measurement uncertainties into account. Plasma Physics and Controlled Fusion, 2014, 56, 105004.	2.1	12

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37	Linear wave systems on n-D spatial domains. International Journal of Control, 2014, , 1-24.	1.9	4
38	Explicit approximations to estimate the perturbative diffusivity in the presence of convectivity and damping. I. Semi-infinite slab approximations. Physics of Plasmas, 2014, 21, 112507.	1.9	14
39	Exponential Stabilization of Boundary Controlled Port-Hamiltonian Systems With Dynamic Feedback. IEEE Transactions on Automatic Control, 2014, 59, 2849-2855.	5.7	72
40	Frequency domain sample maximum likelihood estimation for spatially dependent parameter estimation in PDEs. Automatica, 2014, 50, 2113-2119.	5.0	14
41	Generators with a closure relation. Operators and Matrices, 2014, , 157-165.	0.3	2
42	Left-invertible semigroups on Hilbert spaces. Journal of Evolution Equations, 2013, 13, 335-342.	1.1	3
43	A Lyapunov approach to strong stability of semigroups. Systems and Control Letters, 2013, 62, 673-678.	2.3	4
44	Exponential stabilization of a class of flexible microgrippers using dynamic boundary port Hamiltonian control. , 2013, , . 		2
45	Toeplitz operators and \mathcal{H}^∞ control.  <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:sc="http://www.elsevier.com/xml/sc/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:ce="http://www.elsevier.com/x</small>	0.4	3
46	Linking hyperbolic and parabolic p.d.e.'s. , 2011, , . <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:ce="http://www.elsevier.com/x</small>	1.4	7
47	Linking hyperbolic and parabolic p.d.e.'s. , 2011, , .		7
48	Stability Analysis in Continuous and Discrete Time, using the Cayley Transform. Integral Equations and Operator Theory, 2010, 68, 487-502.	0.8	3
49	Riesz basis for strongly continuous groups. Journal of Differential Equations, 2010, 249, 2397-2408.	2.2	25
50	Dirac structures and their composition on Hilbert spaces. Journal of Mathematical Analysis and Applications, 2010, 372, 402-422.	1.0	36
51	A comparison between LQR control for a long string of SISO systems and LQR control of the infinite spatially invariant version. Automatica, 2010, 46, 1604-1615.	5.0	25
52	Switching input controller for a food storage room. Control Engineering Practice, 2010, 18, 507-514.	5.5	9
53	Well-posedness and regularity of hyperbolic boundary control systems on a one-dimensional spatial domain. ESAIM - Control, Optimisation and Calculus of Variations, 2010, 16, 1077-1093.	1.3	53
54	Luenberger boundary observer synthesis for Sturm-Liouville systems. International Journal of Control, 2010, 83, 1504-1514.	1.9	15

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55	System theoretic properties of a class of spatially invariant systems. <i>Automatica</i> , 2009, 45, 1619-1627.	5.0	64
56	Modelling and controller design for distributed parameter systems via residence time distribution. <i>International Journal of Control</i> , 2009, 82, 1404-1413.	1.9	1
57	Exponential Stability of a Class of Boundary Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 142-147.	5.7	86
58	The growth of a C_0 -semigroup characterised by its cogenerator. <i>Journal of Evolution Equations</i> , 2008, 8, 749-764.	1.1	8
59	System theoretic properties of platoon-type systems. , 2008, , .		8
60	Crank-Nicolson Scheme for Abstract Linear Systems. <i>Numerical Functional Analysis and Optimization</i> , 2007, 28, 717-736.	1.4	11
61	Modeling and control of water disinfection process in annular photoreactors. , 2007, , .		3
62	The Cayley Transform of the Generator of a Bounded C_0 -Semigroup. <i>Semigroup Forum</i> , 2007, 74, 140-148.	0.6	4
63	Growth Estimates for $\exp(A-t)$ on a Hilbert Space. <i>Semigroup Forum</i> , 2007, 74, 487-494.	0.6	8
64	A Note on Polynomially Growing C_0 -Semigroups. <i>Semigroup Forum</i> , 2007, 75, 438-445.	0.6	11
65	Dissipative boundary control systems with application to distributed parameters reactors. , 2006, , .		2
66	Continuous-time Kreiss resolvent condition on infinite-dimensional spaces. <i>Mathematics of Computation</i> , 2006, 75, 1971-1985.	2.1	12
67	On the Relation between Stability of Continuous- and Discrete-Time Evolution Equations via the Cayley Transform. <i>Integral Equations and Operator Theory</i> , 2006, 54, 349-383.	0.8	26
68	Sufficient conditions for admissibility. <i>Systems and Control Letters</i> , 2005, 54, 973-979.	2.3	12
69	Dirac structures and Boundary Control Systems associated with Skew-Symmetric Differential Operators. <i>SIAM Journal on Control and Optimization</i> , 2005, 44, 1864-1892.	2.1	219
70	A representation of all solutions of the control algebraic Riccati equation for infinite-dimensional systems. <i>International Journal of Control</i> , 2005, 78, 505-520.	1.9	12
71	Transfer functions for infinite-dimensional systems. <i>Systems and Control Letters</i> , 2004, 52, 247-255.	2.3	58
72	Counterexamples Concerning Observation Operators for C_0 -Semigroups. <i>SIAM Journal on Control and Optimization</i> , 2004, 43, 137-153.	2.1	36

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73	Weak admissibility does not imply admissibility for analytic semigroups. <i>Systems and Control Letters</i> , 2003, 48, 341-350.	2.3	22
74	Properties of the Realization of Inner Functions. <i>Mathematics of Control, Signals, and Systems</i> , 2002, 15, 356-379.	2.3	9
75	Nehari problems and equalizing vectors for infinite-dimensional systems. <i>Systems and Control Letters</i> , 2002, 45, 217-225.	2.3	8
76	Exact observability of diagonal systems with a finite-dimensional output operator. <i>Systems and Control Letters</i> , 2001, 43, 101-109.	2.3	30
77	J-spectral factorization and equalizing vectors. <i>Systems and Control Letters</i> , 2001, 43, 321-327.	2.3	11
78	On the invertibility and bounded extension of C_0 -semigroups. <i>Semigroup Forum</i> , 2001, 63, 153-160.	0.6	9
79	On H^∞ control for dead-time systems. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 272-285.	5.7	141
80	Continuity of the spectral factorization on a vertical strip. <i>Systems and Control Letters</i> , 1999, 37, 183-192.	2.3	12
81	Open-loop stabilizability of infinite-dimensional systems. <i>Mathematics of Control, Signals, and Systems</i> , 1998, 11, 129-160.	2.3	10
82	An example in linear quadratic optimal control. <i>Systems and Control Letters</i> , 1998, 33, 339-349.	2.3	30
83	Zeros of infinite-dimensional systems. <i>IMA Journal of Mathematical Control and Information</i> , 1997, 14, 85-94.	1.7	10
84	Riccati equations and normalized coprime factorizations for strongly stabilizable infinite-dimensional systems. <i>Systems and Control Letters</i> , 1996, 28, 11-22.	2.3	13
85	An Introduction to Infinite-Dimensional Linear Systems Theory. <i>Texts in Applied Mathematics</i> , 1995, , .	0.4	2,097
86	The Nehari problem for the Pritchard-Salamon class of infinite-dimensional linear systems: a direct approach. <i>Integral Equations and Operator Theory</i> , 1994, 18, 130-153.	0.8	13
87	On Robust PI-Control of Infinite-Dimensional Systems. <i>SIAM Journal on Control and Optimization</i> , 1992, 30, 573-593.	2.1	17
88	Some remarks on adaptive stabilization of infinite-dimensional systems. <i>Systems and Control Letters</i> , 1991, 16, 199-207.	2.3	33
89	Stability of perturbed linear distributed parameter systems. <i>Systems and Control Letters</i> , 1991, 17, 257-264.	2.3	9
90	Open Loop Stabilizability, a Research Note. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1989, 22, 111-115.	0.4	2

#	ARTICLE	IF	CITATIONS
91	Robust controllers for dead-time systems. , 0, , .		0
92	Stability and Stabilization of a Class of Boundary Control Systems. , 0, , .		24