

Benedetto Piccoli

List of Publications by Year in descending order

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215
papers

5,569
citations

87843

38
h-index

98753

67
g-index

228
all docs

228
docs citations

228
times ranked

2473
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipation of stop-and-go waves via control of autonomous vehicles: Field experiments. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 89, 205-221.	3.9	459
2	Traffic Flow on a Road Network. <i>SIAM Journal on Mathematical Analysis</i> , 2005, 36, 1862-1886.	0.9	285
3	Cancer immunotherapy, mathematical modeling and optimal control. <i>Journal of Theoretical Biology</i> , 2007, 247, 723-732.	0.8	174
4	Multiscale Modeling of Granular Flows with Application to Crowd Dynamics. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 155-182.	0.6	169
5	Traffic Flow on a Road Network Using the Aw-Rascle Model. <i>Communications in Partial Differential Equations</i> , 2006, 31, 243-275.	1.0	140
6	Time-Evolving Measures and Macroscopic Modeling of Pedestrian Flow. <i>Archive for Rational Mechanics and Analysis</i> , 2011, 199, 707-738.	1.1	132
7	Multiscale Modeling of Pedestrian Dynamics. <i>Modeling, Simulation and Applications</i> , 2014, , .	1.3	129
8	On the reachability of quantized control systems. <i>IEEE Transactions on Automatic Control</i> , 2002, 47, 546-563.	3.6	128
9	Flows on networks: recent results and perspectives. <i>EMS Surveys in Mathematical Sciences</i> , 2014, 1, 47-111.	1.5	122
10	Are Commercially Implemented Adaptive Cruise Control Systems String Stable?. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 6992-7003.	4.7	117
11	MODELING CROWD DYNAMICS FROM A COMPLEX SYSTEM VIEWPOINT. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, .	1.7	116
12	Generalized Wasserstein Distance and its Application to Transport Equations with Source. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 211, 335-358.	1.1	109
13	Pedestrian flows in bounded domains with obstacles. <i>Continuum Mechanics and Thermodynamics</i> , 2009, 21, 85-107.	1.4	108
14	Regular Synthesis and Sufficiency Conditions for Optimality. <i>SIAM Journal on Control and Optimization</i> , 2000, 39, 359-410.	1.1	104
15	Well-posedness of the Cauchy problem for \tilde{A} - \tilde{B} systems of conservation laws. <i>Memoirs of the American Mathematical Society</i> , 2000, 146, 0-0.	0.5	101
16	Hybrid Necessary Principle. <i>SIAM Journal on Control and Optimization</i> , 2005, 43, 1867-1887.	1.1	96
17	Optimal Control in a Model of Dendritic Cell Transfection Cancer Immunotherapy. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 255-274.	0.9	89
18	Sparse stabilization and control of alignment models. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 521-564.	1.7	83

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19	Moving Bottlenecks in Car Traffic Flow: A PDE-ODE Coupled Model. SIAM Journal on Mathematical Analysis, 2011, 43, 50-67.	0.9	80
20	Quantifying air quality benefits resulting from few autonomous vehicles stabilizing traffic. Transportation Research, Part D: Transport and Environment, 2019, 67, 351-365.	3.2	79
21	Sparse stabilization and optimal control of the Cucker-Smale model. Mathematical Control and Related Fields, 2013, 3, 447-466.	0.6	79
22	A General Phase Transition Model for Vehicular Traffic. SIAM Journal on Applied Mathematics, 2011, 71, 107-127.	0.8	78
23	Transport Equation with Nonlocal Velocity in Wasserstein Spaces: Convergence of Numerical Schemes. Acta Applicandae Mathematicae, 2013, 124, 73-105.	0.5	73
24	Mean-field sparse optimal control. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130400.	1.6	70
25	Control to Flocking of the Kinetic Cucker-Smale Model. SIAM Journal on Mathematical Analysis, 2015, 47, 4685-4719.	0.9	70
26	Numerical approximations of a traffic flow model on networks. Networks and Heterogeneous Media, 2006, 1, 57-84.	0.5	63
27	Existence of Solutions for Supply Chain Models Based on Partial Differential Equations. SIAM Journal on Mathematical Analysis, 2007, 39, 160-173.	0.9	59
28	Conservation laws with discontinuous flux. Networks and Heterogeneous Media, 2007, 2, 159-179.	0.5	56
29	Packet Flow on Telecommunication Networks. SIAM Journal on Mathematical Analysis, 2006, 38, 717-740.	0.9	53
30	Vehicular Traffic: A Review of Continuum Mathematical Models. , 2009, , 9727-9749.		50
31	Traffic circles and timing of traffic lights for cars flow. Discrete and Continuous Dynamical Systems - Series B, 2005, 5, 599-630.	0.5	50
32	Conservation laws on complex networks. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2009, 26, 1925-1951.	0.7	49
33	On the continuum approximation of the on-and-off signal control on dynamic traffic networks. Transportation Research Part B: Methodological, 2014, 61, 73-97.	2.8	47
34	Determination of the optimal therapeutic protocols in cancer immunotherapy. Mathematical Biosciences, 2007, 209, 1-13.	0.9	45
35	A nonlinear model of opinion formation on the sphere. Discrete and Continuous Dynamical Systems, 2015, 35, 4241-4268.	0.5	45
36	Time Optimal Swing-Up of the Planar Pendulum. IEEE Transactions on Automatic Control, 2008, 53, 1876-1886.	3.6	44

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37	History and Future Perspectives on the Discipline of Quantitative Systems Pharmacology Modeling and Its Applications. <i>Frontiers in Physiology</i> , 2021, 12, 637999.	1.3	44
38	Second-order models and traffic data from mobile sensors. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 52, 32-56.	3.9	42
39	On Properties of the Generalized Wasserstein Distance. <i>Archive for Rational Mechanics and Analysis</i> , 2016, 222, 1339-1365.	1.1	42
40	Tracking vehicle trajectories and fuel rates in phantom traffic jams: Methodology and data. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 99, 82-109.	3.9	39
41	Source-Destination Flow on a Road Network. <i>Communications in Mathematical Sciences</i> , 2005, 3, 261-283.	0.5	39
42	Pumping a swing by standing and squatting: do children pump time optimally?. <i>IEEE Control Systems</i> , 2005, 25, 48-56.	1.0	37
43	Effects of anisotropic interactions on the structure of animal groups. <i>Journal of Mathematical Biology</i> , 2011, 62, 569-588.	0.8	36
44	Controllability for Discrete Systems with a Finite Control Set. <i>Mathematics of Control, Signals, and Systems</i> , 2001, 14, 173-193.	1.4	31
45	Continuous-time link-based kinematic wave model: formulation, solution existence, and well-posedness. <i>Transportmetrica B</i> , 2016, 4, 187-222.	1.4	31
46	A multiscale model for traffic regulation via autonomous vehicles. <i>Journal of Differential Equations</i> , 2020, 269, 6088-6124.	1.1	30
47	Optimal vaccine scheduling in cancer immunotherapy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 370, 672-680.	1.2	29
48	A Fluid-Dynamic Traffic Model on Road Networks. <i>Archives of Computational Methods in Engineering</i> , 2007, 14, 139-172.	6.0	28
49	A Tracking Algorithm for Car Paths on Road Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 510-531.	0.7	28
50	ROAD NETWORKS WITH PHASE TRANSITIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2010, 07, 85-106.	0.3	28
51	Modeling self-organization in pedestrians and animal groups from macroscopic and microscopic viewpoints. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , 337-364.	0.4	28
52	Regularity and Lyapunov Stabilization of Weak Entropy Solutions to Scalar Conservation Laws. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 1620-1635.	3.6	27
53	OPTIMIZATION OF TRAFFIC ON ROAD NETWORKS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2007, 17, 1587-1617.	1.7	25
54	A Fluid Dynamic Model for Telecommunication Networks with Sources and Destinations. <i>SIAM Journal on Applied Mathematics</i> , 2008, 68, 981-1003.	0.8	24

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55	Sparse Control of Hegselmann–Krause Models: Black Hole and Declustering. <i>SIAM Journal on Control and Optimization</i> , 2019, 57, 2628-2659.	1.1	24
56	A continuum-discrete model for supply chains dynamics. <i>Networks and Heterogeneous Media</i> , 2007, 2, 661-694.	0.5	24
57	Continuity of the path delay operator for dynamic network loading with spillback. <i>Transportation Research Part B: Methodological</i> , 2016, 92, 211-233.	2.8	23
58	A fast computation method for time scale signal denoising. <i>Signal, Image and Video Processing</i> , 2009, 3, 63-83.	1.7	22
59	Existence of solutions to Cauchy problems for a mixed continuum-discrete model for supply chains and networks. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 362, 374-386.	0.5	22
60	Uniqueness of Classical and Nonclassical Solutions for Nonlinear Hyperbolic Systems. <i>Journal of Differential Equations</i> , 2001, 172, 59-82.	1.1	21
61	Modelling supply networks with partial differential equations. <i>Quarterly of Applied Mathematics</i> , 2009, 67, 419-440.	0.5	21
62	Runge–Kutta Discontinuous Galerkin Method for Traffic Flow Model on Networks. <i>Journal of Scientific Computing</i> , 2015, 63, 233-255.	1.1	21
63	Interaction Network, State Space, and Control in Social Dynamics. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2017, , 99-140.	0.4	21
64	Measure-Theoretic Models for Crowd Dynamics. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018, , 137-165.	0.4	21
65	Circulation of car traffic in congested urban areas. <i>Communications in Mathematical Sciences</i> , 2008, 6, 765-784.	0.5	21
66	Extremal Synthesis for Generic Planar Systems. <i>Journal of Dynamical and Control Systems</i> , 2001, 7, 209-258.	0.4	20
67	Hybrid optimal control: Case study of a car with gears. <i>International Journal of Control</i> , 2003, 76, 1272-1284.	1.2	20
68	Mean-field sparse Jurdjević–Quinn control. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017, 27, 1223-1253.	1.7	20
69	Feedback Encoding for Efficient Symbolic Control of Dynamical Systems. <i>IEEE Transactions on Automatic Control</i> , 2006, 51, 987-1002.	3.6	19
70	An Upwind-Euler Scheme for an ODE-PDE Model of Supply Chains. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 1669-1688.	1.3	19
71	Optimal distribution of traffic flows in emergency cases. <i>European Journal of Applied Mathematics</i> , 2012, 23, 515-535.	1.4	19
72	Traffic Regulation via Controlled Speed Limit. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 2936-2958.	1.1	19

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73	Regularization of Chattering Phenomena via Bounded Variation Controls. IEEE Transactions on Automatic Control, 2018, 63, 2046-2060.	3.6	19
74	Model-based assessment of the impact of driver-assist vehicles using kinetic theory. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	0.7	18
75	Feedback Control Algorithms for the Dissipation of Traffic Waves with Autonomous Vehicles. Springer Optimization and Its Applications, 2019, , 275-299.	0.6	18
76	OPTIMAL STRATEGIES FOR THE ISSUANCES OF PUBLIC DEBT SECURITIES. International Journal of Theoretical and Applied Finance, 2004, 07, 805-822.	0.2	17
77	VERTEX FLOW MODELS FOR VEHICULAR TRAFFIC ON NETWORKS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1299-1315.	1.7	17
78	A Fluid Dynamic Model for T -Junctions. SIAM Journal on Mathematical Analysis, 2008, 39, 2016-2032.	0.9	17
79	A Baire Category Approach to the Bang-Bang Property. Journal of Differential Equations, 1995, 116, 318-337.	1.1	16
80	Traffic Reconstruction Using Autonomous Vehicles. SIAM Journal on Applied Mathematics, 2019, 79, 1748-1767.	0.8	16
81	Fast algorithms for the approximation of a traffic flow model on networks. Discrete and Continuous Dynamical Systems - Series B, 2006, 6, 427-448.	0.5	16
82	Optimal input flows for a PDE \leftrightarrow ODE model of supply chains. Communications in Mathematical Sciences, 2012, 10, 1225-1240.	0.5	16
83	Nonclassical Shocks and the Cauchy Problem for Nonconvex Conservation Laws. Journal of Differential Equations, 1999, 151, 345-372.	1.1	15
84	Numerical Schemes for the Optimal Input Flow of a Supply Chain. SIAM Journal on Numerical Analysis, 2013, 51, 2634-2650.	1.1	15
85	Measure Differential Equations. Archive for Rational Mechanics and Analysis, 2019, 233, 1289-1317.	1.1	15
86	On fluido-dynamic models for urban traffic. Networks and Heterogeneous Media, 2009, 4, 107-126.	0.5	15
87	Control of COVID-19 outbreak using an extended SEIR model. Mathematical Models and Methods in Applied Sciences, 2021, 31, 2399-2424.	1.7	15
88	Global Continuous Riemann Solver for Nonlinear Elasticity. Archive for Rational Mechanics and Analysis, 2001, 156, 89-119.	1.1	14
89	Regular syntheses and solutions to discontinuous ODEs. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 7, 291-307.	0.7	14
90	Sensitivity analysis of permeability parameters for flows on Barcelona networks. Journal of Differential Equations, 2010, 249, 3110-3131.	1.1	14

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91	COUPLING OF MICROSCOPIC AND MACROSCOPIC TRAFFIC MODELS AT BOUNDARIES. <i>Mathematical Models and Methods in Applied Sciences</i> , 2010, 20, 2349-2370.	1.7	14
92	Social dynamics models with time-varying influence. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 681-716.	1.7	14
93	Multiscale Modeling and Control Architecture for V2X Enabled Traffic Streams. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 4616-4626.	3.9	13
94	Generalized dynamic programming principle and sparse mean-field control problems. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 481, 123437.	0.5	13
95	A Multibuffer Model for LWR Road Networks. <i>Complex Networks and Dynamic Systems</i> , 2013, , 143-161.	0.6	13
96	Numerical algorithms for simulations of a traffic model on road networks. <i>Journal of Computational and Applied Mathematics</i> , 2007, 210, 71-77.	1.1	12
97	HEATH?JARROW?MORTON INTEREST RATE DYNAMICS AND APPROXIMATELY CONSISTENT FORWARD RATE CURVES. <i>Mathematical Finance</i> , 2007, 17, 427-447.	0.9	11
98	Time-varying Riemann solvers for conservation laws on networks. <i>Journal of Differential Equations</i> , 2009, 247, 447-464.	1.1	11
99	Numerical simulations of traffic data via fluid dynamic approach. <i>Applied Mathematics and Computation</i> , 2009, 210, 441-454.	1.4	11
100	Time-optimal control problems for the swing and the ski. <i>International Journal of Control</i> , 1995, 62, 1409-1429.	1.2	10
101	How can macroscopic models reveal self-organization in traffic flow?. , 2012, , .		10
102	COUPLING OF Lighthillâ€™-Whithamâ€™Richards and Phase Transition Models. <i>Journal of Hyperbolic Differential Equations</i> , 2013, 10, 577-636.	0.3	10
103	Optimal control of a collective migration model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 383-417.	1.7	10
104	Sparse Jurdjevicâ€™-Quinn stabilization of dissipative systems. <i>Automatica</i> , 2017, 86, 110-120.	3.0	10
105	Well-Posedness for Scalar Conservation Laws with Moving Flux Constraints. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 641-667.	0.8	10
106	Optimal synchronization problem for a multi-agent system. <i>Networks and Heterogeneous Media</i> , 2017, 12, 277-295.	0.5	10
107	Managing public transit during a pandemic: The trade-off between safety and mobility. <i>Transportation Research Part C: Emerging Technologies</i> , 2022, 138, 103592.	3.9	10
108	Instantaneous frequency estimation of interfering FM signals through time-scale isolevel curves. <i>Signal Processing</i> , 2013, 93, 882-896.	2.1	9

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109	Notes on RKDG Methods for Shallow-Water Equations in Canal Networks. Journal of Scientific Computing, 2016, 68, 1101-1123.	1.1	9
110	A General BV Existence Result for Conservation Laws with Spatial Heterogeneities. SIAM Journal on Mathematical Analysis, 2018, 50, 2901-2927.	0.9	9
111	Quantitative analyses of EGFR localization and trafficking dynamics in the follicular epithelium. Development (Cambridge), 2020, 147, .	1.2	9
112	Priority-based Riemann solver for traffic flow on networks. Communications in Mathematical Sciences, 2018, 16, 185-211.	0.5	9
113	Sensor Deployment for Network-Like Environments. IEEE Transactions on Automatic Control, 2010, 55, 2580-2585.	3.6	8
114	Dissipation of Emergent Traffic Waves in Stop-and-Go Traffic Using a Supervisory Controller. , 2018, , .		8
115	Averaged time-optimal control problem in the space of positive Borel measures. ESAIM - Control, Optimisation and Calculus of Variations, 2018, 24, 721-740.	0.7	8
116	Habitat-Specific Clock Variation and Its Consequence on Reproductive Fitness. Journal of Biological Rhythms, 2020, 35, 134-144.	1.4	8
117	Generalized solutions to bounded-confidence models. Mathematical Models and Methods in Applied Sciences, 2021, 31, 1237-1276.	1.7	8
118	Integrated Framework of Vehicle Dynamics, Instabilities, Energy Models, and Sparse Flow Smoothing Controllers. , 2021, , .		8
119	Superposition Principle for Differential Inclusions. Lecture Notes in Computer Science, 2018, , 201-209.	1.0	8
120	Morse Properties for the Minimum Time Function on 2-D Manifolds. Journal of Dynamical and Control Systems, 2001, 7, 385-423.	0.4	7
121	On Automaton Recognizability of Abnormal Extremals. SIAM Journal on Control and Optimization, 2002, 40, 1333-1357.	1.1	7
122	Admissible Riemann Solvers for Genuinely Nonlinear p-Systems of Mixed Type. Journal of Differential Equations, 2002, 180, 395-426.	1.1	7
123	On Some Concepts of Generalized Differentials. Set-Valued and Variational Analysis, 2007, 15, 163-183.	0.5	7
124	Existence of solution to supply chain models based on partial differential equation with discontinuous flux function. Journal of Mathematical Analysis and Applications, 2013, 401, 510-517.	0.5	7
125	Sparse feedback stabilization of multi-agent dynamics. , 2016, , .		7
126	Mean-Field of Optimal Control Problems for Hybrid Model of Multilane Traffic. , 2021, 5, 1964-1969.		7

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127	Vehicular Traffic: A Review of Continuum Mathematical Models. , 2012, , 1748-1770.		7
128	Measure dynamics with Probability Vector Fields and sources. Discrete and Continuous Dynamical Systems, 2019, 39, 6207-6230.	0.5	7
129	Optimization of vaccination for COVID-19 in the midst of a pandemic. Networks and Heterogeneous Media, 2022, 17, 443.	0.5	7
130	Stochastic algorithms for robustness of control performances. Automatica, 2009, 45, 1407-1414.	3.0	6
131	Reducing actuator switchings for motion control of autonomous underwater vehicles. , 2013, , .		6
132	Boundary coupling of microscopic and first order macroscopic traffic models. Nonlinear Differential Equations and Applications, 2017, 24, 1.	0.4	6
133	Linear-In-Flux-Expressions Methodology: Toward a Robust Mathematical Framework for Quantitative Systems Pharmacology Simulators. Gene Regulation and Systems Biology, 2017, 11, 117762501771141.	2.3	6
134	Safety controls and applications to the Dubins? car. Nonlinear Differential Equations and Applications, 2004, 11, 73-94.	0.4	5
135	Quantization of the rolling-body problem with applications to motion planning. Systems and Control Letters, 2005, 54, 999-1013.	1.3	5
136	A General Phase Transition Model for Traffic Flow on Networks. Procedia, Social and Behavioral Sciences, 2012, 54, 302-311.	0.5	5
137	Modeling birds on wires. Journal of Theoretical Biology, 2017, 415, 102-112.	0.8	5
138	Experimental and Mathematical Analyses Relating Circadian Period and Phase of Entrainment in <i>Neurospora crassa</i> . Journal of Biological Rhythms, 2017, 32, 550-559.	1.4	5
139	Real-time distance estimation and filtering of vehicle headways for smoothing of traffic waves. , 2019, , .		5
140	Coupling of microscopic and phase transition models at boundary. Networks and Heterogeneous Media, 2013, 8, 649-661.	0.5	5
141	Generalized Solutions to Opinion Dynamics Models with Discontinuities. Modeling and Simulation in Science, Engineering and Technology, 2021, , 11-47.	0.4	5
142	Fluidsim: A Car Traffic Simulation Prototype Based on FluidDynamic. Algorithms, 2010, 3, 294-310.	1.2	4
143	Left invertibility of discrete systems with finite inputs and quantised output. International Journal of Control, 2010, 83, 798-809.	1.2	4
144	Measure differential inclusions. , 2018, , .		4

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145	Multiscale Control of Generic Second Order Traffic Models by Driver-Assist Vehicles. Multiscale Modeling and Simulation, 2021, 19, 589-611.	0.6	4
146	A Three-Phase Fundamental Diagram from Three-Dimensional Traffic Data. Axioms, 2021, 10, 17.	0.9	4
147	Optimal syntheses for state constrained problems with application to optimization of cancer therapies. Mathematical Control and Related Fields, 2012, 2, 383-398.	0.6	4
148	Two algorithms for a fully coupled and consistently macroscopic PDE-ODEsystem modeling a moving bottleneck on a road. Mathematics in Engineering, 2018, 1, 55-83.	0.5	4
149	A numerical method for the computation of tangent vectors to 2×2 hyperbolic systems of conservation laws. Communications in Mathematical Sciences, 2016, 14, 683-704.	0.5	4
150	Bang-bang property for Bolza problems in two dimensions. Journal of Optimization Theory and Applications, 1994, 83, 155-165.	0.8	3
151	Existence theory for nonclassical entropy solutions of scalar conservation laws. Zeitschrift Fur Angewandte Mathematik Und Physik, 2004, 55, 927-945.	0.7	3
152	Time optimal swing-up of the planar pendulum. , 2007, , .		3
153	Evaluation of HIV-1 and CD4+ T Cell Dynamic Parameters in Patients Treated with Genotypic Resistance Testing-Guided HAART. Current HIV Research, 2008, 6, 363-369.	0.2	3
154	Control of reaction-diffusion equations on time-evolving manifolds. , 2016, 2016, 1614-1619.		3
155	A computational modular approach to evaluate $\{\mathrm{NO}_x\}$ emissions and ozone production due to vehicular traffic. Discrete and Continuous Dynamical Systems - Series B, 2021, .	0.5	3
156	Infinite time regular synthesis. ESAIM - Control, Optimisation and Calculus of Variations, 1998, 3, 381-405.	0.7	3
157	Fluvial to torrential phase transition in open canals. Networks and Heterogeneous Media, 2018, 13, 663-690.	0.5	3
158	Time-Scale Dependencies for Image Compression. Journal of Multimedia, 2006, 1, .	0.3	3
159	On the Validity of Fluid-dynamic Models for Data Networks. Journal of Networks, 2012, 7, .	0.4	3
160	Stability of metabolic networks via Linear-in-Flux-Expressions. Networks and Heterogeneous Media, 2019, 14, 101-130.	0.5	3
161	A measure model for the spread of viral infections with mutations. Networks and Heterogeneous Media, 2022, 17, 427.	0.5	3
162	A rigorous multi-population multi-lane hybrid traffic model for dissipation of waves via autonomous vehicles. European Physical Journal: Special Topics, 2022, 231, 1689-1700.	1.2	3

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163	Special bang-bang solutions for nonlinear control systems. <i>Nonlinear Differential Equations and Applications</i> , 1995, 2, 323-339.	0.4	2
164	Classification of stable time-optimal controls on 2-manifolds. <i>Journal of Mathematical Sciences</i> , 2006, 135, 3109-3124.	0.1	2
165	Deployment of sensors in a network-like environment. , 2008, , .		2
166	Left invertibility of discrete-time output-quantized systems: the linear case with finite inputs. <i>Mathematics of Control, Signals, and Systems</i> , 2011, 23, 117-139.	1.4	2
167	Estimating fuel consumption and emissions via traffic data from mobile sensors. , 2013, , .		2
168	An Overview of the Modeling of Crowd Dynamics. <i>Modeling, Simulation and Applications</i> , 2014, , 73-107.	1.3	2
169	Multiscale Modeling by Time-Evolving Measures. <i>Modeling, Simulation and Applications</i> , 2014, , 109-135.	1.3	2
170	A Convex Formulation of Traffic Dynamics on Transportation Networks. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1493-1515.	0.8	2
171	Equilibria for Large Metabolic Systems and the LIFE Approach. , 2018, , .		2
172	String stability of commercial adaptive cruise control vehicles. , 2019, , .		2
173	A Two-Step Model of Human Entrainment: A Quantitative Study of Circadian Period and Phase of Entrainment. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 12.	0.9	2
174	A statistical mechanics approach to macroscopic limits of car-following traffic dynamics. <i>International Journal of Non-Linear Mechanics</i> , 2021, 137, 103806.	1.4	2
175	Keep right or left? Towards a cognitive-mathematical model for pedestrians. <i>Networks and Heterogeneous Media</i> , 2015, 10, 559-578.	0.5	2
176	Control of Collective Dynamics with Time-Varying Weights. <i>Springer INdAM Series</i> , 2021, , 289-308.	0.4	2
177	On the stabilization performance of some hybrid controls. <i>International Journal of Control</i> , 2001, 74, 1020-1032.	1.2	1
178	SAFETY DRIVING OF THE DUBINS' CAR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002, 35, 161-166.	0.4	1
179	Hybrid Necessary Principles: An Application to a Car with Gears. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 253-258.	0.4	1
180	Hybridization of optimal control problems. <i>International Journal of Control</i> , 2007, 80, 268-280.	1.2	1

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181	Detection of Gaussian signals via hexagonal sensor networks. International Journal of Mathematical Modelling and Numerical Optimisation, 2009, 1, 39.	0.1	1
182	Mean-field optimal control by leaders. , 2014, , .		1
183	Synthesis Theory in Optimal Control. , 2014, , 1-11.		1
184	An Introduction to the Modeling of Crowd Dynamics. Modeling, Simulation and Applications, 2014, , 3-27.	1.3	1
185	Control of the 1D continuous version of the Cucker-Smale model. , 2015, , .		1
186	Multiscale approaches to crowd dynamics and the reliability of data from experiments. Physics of Life Reviews, 2016, 18, 46-47.	1.5	1
187	Mean-field of optimal control problems for hybrid model of multilane traffic. , 2021, , .		1
188	Vehicular Traffic: A Review of Continuum Mathematical Models. , 2013, , 1-37.		1
189	A model for biological dynamic networks. Networks and Heterogeneous Media, 2011, 6, 647-663.	0.5	1
190	The Riemann Problem for Nonlinear Elasticity. , 2001, , 713-722.		1
191	Improving Efficiency of Finite Plans by Optimal Choice of Input Sets. Lecture Notes in Computer Science, 2006, , 108-122.	1.0	1
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