

Benedetto Piccoli

List of Publications by Year in descending order

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215
papers

5,569
citations

100601

38
h-index

111975

67
g-index

228
all docs

228
docs citations

228
times ranked

2846
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of vaccination for COVID-19 in the midst of a pandemic. <i>Networks and Heterogeneous Media</i> , 2022, 17, 443.	0.5	7
2	A measure model for the spread of viral infections with mutations. <i>Networks and Heterogeneous Media</i> , 2022, 17, 427.	0.5	3
3	A Unified Model for Entrainment by Circadian Clocks: Dynamic Circadian Integrated Response Characteristic (dCiRC). <i>Journal of Biological Rhythms</i> , 2022, 37, 202-215.	1.4	1
4	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
5	Advanced mathematical methodologies to contrast COVID-19 pandemic. <i>Networks and Heterogeneous Media</i> , 2022, 17, i.	0.5	1
6	A rigorous multi-population multi-lane hybrid traffic model for dissipation of waves via autonomous vehicles. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1689-1700.	1.2	3
7	Are Commercially Implemented Adaptive Cruise Control Systems String Stable?. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 6992-7003.	4.7	117
8	A computational modular approach to evaluate $\{\mathrm{NO}_{\mathrm{x}}\}$ emissions and ozone production due to vehicular traffic. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, .	0.5	3
9	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
10	Multiscale Control of Generic Second Order Traffic Models by Driver-Assist Vehicles. <i>Multiscale Modeling and Simulation</i> , 2021, 19, 589-611.	0.6	4
11	A Three-Phase Fundamental Diagram from Three-Dimensional Traffic Data. <i>Axioms</i> , 2021, 10, 17.	0.9	4
12	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
13	Generalized solutions to bounded-confidence models. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 1237-1276.	1.7	8
14	Mean-field of optimal control problems for hybrid model of multilane traffic. , 2021, , .		1
15	Integrated Framework of Vehicle Dynamics, Instabilities, Energy Models, and Sparse Flow Smoothing Controllers. , 2021, , .		8
16	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
17	Mean-Field of Optimal Control Problems for Hybrid Model of Multilane Traffic. , 2021, 5, 1964-1969.		7
18	Synthesis Theory in Optimal Control. , 2021, , 2266-2275.		0

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19	Control of COVID-19 outbreak using an extended SEIR model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 2399-2424.	1.7	15
20	Synthesis Theory in Optimal Control. , 2021, , 1-9.		0
21	Control of Collective Dynamics with Time-Varying Weights. <i>Springer INdAM Series</i> , 2021, , 289-308.	0.4	2
22	Generalized Solutions to Opinion Dynamics Models with Discontinuities. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2021, , 11-47.	0.4	5
23	Generalized dynamic programming principle and sparse mean-field control problems. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 481, 123437.	0.5	13
24	Habitat-Specific Clock Variation and Its Consequence on Reproductive Fitness. <i>Journal of Biological Rhythms</i> , 2020, 35, 134-144.	1.4	8
25	Quantitative analyses of EGFR localization and trafficking dynamics in the follicular epithelium. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	9
26	Model-based assessment of the impact of driver-assist vehicles using kinetic theory. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020, 71, 1.	0.7	18
27	A multiscale model for traffic regulation via autonomous vehicles. <i>Journal of Differential Equations</i> , 2020, 269, 6088-6124.	1.1	30
28	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
29	Traffic Reconstruction Using Autonomous Vehicles. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 1748-1767.	0.8	16
30	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
31	String stability of commercial adaptive cruise control vehicles. , 2019, , .		2
32	Real-time distance estimation and filtering of vehicle headways for smoothing of traffic waves. , 2019, , .		5
33	Well-Posedness for Scalar Conservation Laws with Moving Flux Constraints. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 641-667.	0.8	10
34	Measure Differential Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 233, 1289-1317.	1.1	15
35	Social dynamics models with time-varying influence. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 681-716.	1.7	14
36	Quantifying air quality benefits resulting from few autonomous vehicles stabilizing traffic. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 67, 351-365.	3.2	79

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37	Feedback Control Algorithms for the Dissipation of Traffic Waves with Autonomous Vehicles. Springer Optimization and Its Applications, 2019, , 275-299.	0.6	18
38	Special issue on mathematical methods in systems biology. Networks and Heterogeneous Media, 2019, 14, 1-130.	0.5	1
39	Stability of metabolic networks via Linear-in-Flux-Expressions. Networks and Heterogeneous Media, 2019, 14, 101-130.	0.5	3
40	Measure dynamics with Probability Vector Fields and sources. Discrete and Continuous Dynamical Systems, 2019, 39, 6207-6230.	0.5	7
41	Equilibria and control of metabolic networks with enhancers and inhibitors. Mathematics in Engineering, 2019, 1, 648-671.	0.5	1
42	Dissipation of stop-and-go waves via control of autonomous vehicles: Field experiments. Transportation Research Part C: Emerging Technologies, 2018, 89, 205-221.	3.9	459
43	Regularization of Chattering Phenomena via Bounded Variation Controls. IEEE Transactions on Automatic Control, 2018, 63, 2046-2060.	3.6	19
44	Measure differential inclusions. , 2018, , .		4
45	Equilibria for Large Metabolic Systems and the LIFE Approach. , 2018, , .		2
46	Measure-Theoretic Models for Crowd Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2018, , 137-165.	0.4	21
47	Riemann solver for a macroscopic double-lane roundabout model. IFAC-PapersOnLine, 2018, 51, 55-60.	0.5	0
48	Dissipation of Emergent Traffic Waves in Stop-and-Go Traffic Using a Supervisory Controller. , 2018, , .		8
49	Sparse control to prevent Black Swan clustering in collective dynamics. , 2018, , .		0
50	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
51	A General BV Existence Result for Conservation Laws with Spatial Heterogeneities. SIAM Journal on Mathematical Analysis, 2018, 50, 2901-2927.	0.9	9
52	Superposition Principle for Differential Inclusions. Lecture Notes in Computer Science, 2018, , 201-209.	1.0	8
53	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
54	Fluvial to torrential phase transition in open canals. Networks and Heterogeneous Media, 2018, 13, 663-690.	0.5	3

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55	Priority-based Riemann solver for traffic flow on networks. <i>Communications in Mathematical Sciences</i> , 2018, 16, 185-211.	0.5	9
56	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
57	Multiscale Modeling and Control Architecture for V2X Enabled Traffic Streams. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 4616-4626.	3.9	13
58	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
59	Modeling birds on wires. <i>Journal of Theoretical Biology</i> , 2017, 415, 102-112.	0.8	5
60	Traffic Regulation via Controlled Speed Limit. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 2936-2958.	1.1	19
61	Sparse Jurdjević-Quinn stabilization of dissipative systems. <i>Automatica</i> , 2017, 86, 110-120.	3.0	10
62	A Convex Formulation of Traffic Dynamics on Transportation Networks. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1493-1515.	0.8	2
63	Experimental and Mathematical Analyses Relating Circadian Period and Phase of Entrainment in <i>Neurospora crassa</i> . <i>Journal of Biological Rhythms</i> , 2017, 32, 550-559.	1.4	5
64	Boundary coupling of microscopic and first order macroscopic traffic models. <i>Nonlinear Differential Equations and Applications</i> , 2017, 24, 1.	0.4	6
65	Mean-field sparse Jurdjević-Quinn control. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017, 27, 1223-1253.	1.7	20
66	Linear-In-Flux-Expressions Methodology: Toward a Robust Mathematical Framework for Quantitative Systems Pharmacology Simulators. <i>Gene Regulation and Systems Biology</i> , 2017, 11, 117762501771141.	2.3	6
67	Optimal synchronization problem for a multi-agent system. <i>Networks and Heterogeneous Media</i> , 2017, 12, 277-295.	0.5	10
68	Optimal control of a multi-level dynamic model for biofuel production. <i>Mathematical Control and Related Fields</i> , 2017, 7, 235-257.	0.6	0
69	Control of reaction-diffusion equations on time-evolving manifolds. , 2016, 2016, 1614-1619.		3
70	Sparse kinetic Jurdjević-Quinn control for mean-field equations. , 2016, , .		0
71	Sparse feedback stabilization of multi-agent dynamics. , 2016, , .		7
72	Multiscale approaches to crowd dynamics and the reliability of data from experiments. <i>Physics of Life Reviews</i> , 2016, 18, 46-47.	1.5	1

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73	On Properties of the Generalized Wasserstein Distance. <i>Archive for Rational Mechanics and Analysis</i> , 2016, 222, 1339-1365.	1.1	42
74	Outflow tracking with variable speed limit. , 2016, , .		0
75	Notes on RKDG Methods for Shallow-Water Equations in Canal Networks. <i>Journal of Scientific Computing</i> , 2016, 68, 1101-1123.	1.1	9
76	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
77	Optimal control of a collective migration model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 383-417.	1.7	10
78	Continuous-time link-based kinematic wave model: formulation, solution existence, and well-posedness. <i>Transportmetrica B</i> , 2016, 4, 187-222.	1.4	31
79	A numerical method for the computation of tangent vectors to 2×2 hyperbolic systems of conservation laws. <i>Communications in Mathematical Sciences</i> , 2016, 14, 683-704.	0.5	4
80	Control of the 1D continuous version of the Cucker-Smale model. , 2015, , .		1
81	Developmental Partial Differential Equations. , 2015, , .		0
82	Control to Flocking of the Kinetic Cucker-Smale Model. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 4685-4719.	0.9	70
83	Second-order models and traffic data from mobile sensors. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 52, 32-56.	3.9	42
84	Sparse stabilization and control of alignment models. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 521-564.	1.7	83
85	Runge-Kutta Discontinuous Galerkin Method for Traffic Flow Model on Networks. <i>Journal of Scientific Computing</i> , 2015, 63, 233-255.	1.1	21
86	A nonlinear model of opinion formation on the sphere. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 4241-4268.	0.5	45
87	Keep right or left? Towards a cognitive-mathematical model for pedestrians. <i>Networks and Heterogeneous Media</i> , 2015, 10, 559-578.	0.5	2
88	Special issue on modeling and control in social dynamics. <i>Networks and Heterogeneous Media</i> , 2015, 10, i-ii.	0.5	0
89	Flows on networks: recent results and perspectives. <i>EMS Surveys in Mathematical Sciences</i> , 2014, 1, 47-111.	1.5	122
90	Mean-field optimal control by leaders. , 2014, , .		1

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91	Synthesis Theory in Optimal Control. , 2014, , 1-11.		1
92	An Introduction to the Modeling of Crowd Dynamics. Modeling, Simulation and Applications, 2014, , 3-27.	1.3	1
93	An Overview of the Modeling of Crowd Dynamics. Modeling, Simulation and Applications, 2014, , 73-107.	1.3	2
94	Multiscale Modeling by Time-Evolving Measures. Modeling, Simulation and Applications, 2014, , 109-135.	1.3	2
95	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
96	Mean-field sparse optimal control. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130400.	1.6	70
97	Control of multiscale model for social dynamics. , 2014, , .		0
98	Multiscale Modeling of Pedestrian Dynamics. Modeling, Simulation and Applications, 2014, , .	1.3	129
99	Generalized Wasserstein Distance and its Application to Transport Equations with Source. Archive for Rational Mechanics and Analysis, 2014, 211, 335-358.	1.1	109
100	Traffic modeling and management: Trends and perspectives. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, i-ii.	0.6	0
101	Basic Theory of Measure-Based Models. Modeling, Simulation and Applications, 2014, , 137-168.	1.3	0
102	Psychological Insights. Modeling, Simulation and Applications, 2014, , 53-69.	1.3	0
103	Evolution in Measure Spaces with Wasserstein Distance. Modeling, Simulation and Applications, 2014, , 169-194.	1.3	0
104	Generalizations of the Multiscale Approach. Modeling, Simulation and Applications, 2014, , 195-219.	1.3	0
105	Problems and Simulations. Modeling, Simulation and Applications, 2014, , 29-52.	1.3	0
106	Estimating fuel consumption and emissions via traffic data from mobile sensors. , 2013, , .		2
107	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
108	Transport Equation with Nonlocal Velocity in Wasserstein Spaces: Convergence of Numerical Schemes. Acta Applicandae Mathematicae, 2013, 124, 73-105.	0.5	73

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109	Instantaneous frequency estimation of interfering FM signals through time-scale isolevel curves. <i>Signal Processing</i> , 2013, 93, 882-896.	2.1	9
110	Numerical Schemes for the Optimal Input Flow of a Supply Chain. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 2634-2650.	1.1	15
111	Reducing actuator switchings for motion control of autonomous underwater vehicles. , 2013, , .		6
112	COUPLING OF LIGHTHILLâ€™WHITHAMâ€™RICHARDS AND PHASE TRANSITION MODELS. <i>Journal of Hyperbolic Differential Equations</i> , 2013, 10, 577-636.	0.3	10
113	A Multibuffer Model for LWR Road Networks. <i>Complex Networks and Dynamic Systems</i> , 2013, , 143-161.	0.6	13
114	Vehicular Traffic: A Review of Continuum Mathematical Models. , 2013, , 1-37.		1
115	Sparse stabilization and optimal control of the Cucker-Smale model. <i>Mathematical Control and Related Fields</i> , 2013, 3, 447-466.	0.6	79
116	Coupling of microscopic and phase transition models at boundary. <i>Networks and Heterogeneous Media</i> , 2013, 8, 649-661.	0.5	5
117	Special issue on Mathematics of Traffic Flow Modeling, Estimation and Control. <i>Networks and Heterogeneous Media</i> , 2013, 8, i-ii.	0.5	0
118	Optimal distribution of traffic flows in emergency cases. <i>European Journal of Applied Mathematics</i> , 2012, 23, 515-535.	1.4	19
119	How can macroscopic models reveal self-organization in traffic flow?. , 2012, , .		10
120	MODELING CROWD DYNAMICS FROM A COMPLEX SYSTEM VIEWPOINT. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, .	1.7	116
121	A General Phase Transition Model for Traffic Flow on Networks. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 54, 302-311.	0.5	5
122	Vehicular Traffic: A Review of Continuum Mathematical Models. , 2012, , 1748-1770.		7
123	Optimal syntheses for state constrained problems with application to optimization of cancer therapies. <i>Mathematical Control and Related Fields</i> , 2012, 2, 383-398.	0.6	4
124	Optimal input flows for a PDEâ€™ODE model of supply chains. <i>Communications in Mathematical Sciences</i> , 2012, 10, 1225-1240.	0.5	16
125	On the Validity of Fluid-dynamic Models for Data Networks. <i>Journal of Networks</i> , 2012, 7, .	0.4	3
126	A General Phase Transition Model for Vehicular Traffic. <i>SIAM Journal on Applied Mathematics</i> , 2011, 71, 107-127.	0.8	78

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127	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
128	Moving Bottlenecks in Car Traffic Flow: A PDE-ODE Coupled Model. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 50-67.	0.9	80
129	Multiscale Modeling of Granular Flows with Application to Crowd Dynamics. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 155-182.	0.6	169
130	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
131	Effects of anisotropic interactions on the structure of animal groups. <i>Journal of Mathematical Biology</i> , 2011, 62, 569-588.	0.8	36
132	Time-Evolving Measures and Macroscopic Modeling of Pedestrian Flow. <i>Archive for Rational Mechanics and Analysis</i> , 2011, 199, 707-738.	1.1	132
133	A model for biological dynamic networks. <i>Networks and Heterogeneous Media</i> , 2011, 6, 647-663.	0.5	1
134	Sensitivity analysis of permeability parameters for flows on Barcelona networks. <i>Journal of Differential Equations</i> , 2010, 249, 3110-3131.	1.1	14
135	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
136	Fluidsim: A Car Traffic Simulation Prototype Based on FluidDynamic. <i>Algorithms</i> , 2010, 3, 294-310.	1.2	4
137	Optimal syntheses for state constrained problems and optimization of cancer therapies. , 2010, , .		0
138	Left invertibility of discrete systems with finite inputs and quantised output. <i>International Journal of Control</i> , 2010, 83, 798-809.	1.2	4
139	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
140	ROAD NETWORKS WITH PHASE TRANSITIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2010, 07, 85-106.	0.3	28
141	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
142	Sensor Deployment for Network-Like Environments. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 2580-2585.	3.6	8
143	Modelling supply networks with partial differential equations. <i>Quarterly of Applied Mathematics</i> , 2009, 67, 419-440.	0.5	21
144	Conservation laws on complex networks. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2009, 26, 1925-1951.	0.7	49

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145	A fast computation method for time scale signal denoising. Signal, Image and Video Processing, 2009, 3, 63-83.	1.7	22
146	Pedestrian flows in bounded domains with obstacles. Continuum Mechanics and Thermodynamics, 2009, 21, 85-107.	1.4	108
147	Time-varying Riemann solvers for conservation laws on networks. Journal of Differential Equations, 2009, 247, 447-464.	1.1	11
148	Numerical simulations of traffic data via fluid dynamic approach. Applied Mathematics and Computation, 2009, 210, 441-454.	1.4	11
149	Stochastic algorithms for robustness of control performances. Automatica, 2009, 45, 1407-1414.	3.0	6
150	Detection of Gaussian signals via hexagonal sensor networks. International Journal of Mathematical Modelling and Numerical Optimisation, 2009, 1, 39.	0.1	1
151	Vehicular Traffic: A Review of Continuum Mathematical Models. , 2009, , 9727-9749.		50
152	On fluido-dynamic models for urban traffic. Networks and Heterogeneous Media, 2009, 4, 107-126.	0.5	15
153	VERTEX FLOW MODELS FOR VEHICULAR TRAFFIC ON NETWORKS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1299-1315.	1.7	17
154	A Fluid Dynamic Model for Telecommunication Networks with Sources and Destinations. SIAM Journal on Applied Mathematics, 2008, 68, 981-1003.	0.8	24
155	Time Optimal Swing-Up of the Planar Pendulum. IEEE Transactions on Automatic Control, 2008, 53, 1876-1886.	3.6	44
156	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
157	A Fluid Dynamic Model for T -Junctions. SIAM Journal on Mathematical Analysis, 2008, 39, 2016-2032.	0.9	17
158	Left invertibility of discrete systems with finite inputs and quantized output. , 2008, , .		0
159	Deployment of sensors in a network-like environment. , 2008, , .		2
160	A Tracking Algorithm for Car Paths on Road Networks. SIAM Journal on Applied Dynamical Systems, 2008, 7, 510-531.	0.7	28
161	Circulation of car traffic in congested urban areas. Communications in Mathematical Sciences, 2008, 6, 765-784.	0.5	21
162	A Fast Scheme for Multiscale Signal Denoising. Lecture Notes in Computer Science, 2008, , 23-32.	1.0	0

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163	Time optimal swing-up of the planar pendulum. , 2007, , .		3
164	OPTIMIZATION OF TRAFFIC ON ROAD NETWORKS. Mathematical Models and Methods in Applied Sciences, 2007, 17, 1587-1617.	1.7	25
165	Hybridization of optimal control problems. International Journal of Control, 2007, 80, 268-280.	1.2	1
166	Determination of the optimal therapeutic protocols in cancer immunotherapy. Mathematical Biosciences, 2007, 209, 1-13.	0.9	45
167	Existence of Solutions for Supply Chain Models Based on Partial Differential Equations. SIAM Journal on Mathematical Analysis, 2007, 39, 160-173.	0.9	59
168	Numerical algorithms for simulations of a traffic model on road networks. Journal of Computational and Applied Mathematics, 2007, 210, 71-77.	1.1	12
169	Cancer immunotherapy, mathematical modeling and optimal control. Journal of Theoretical Biology, 2007, 247, 723-732.	0.8	174
170	HEATH?JARROW?MORTON INTEREST RATE DYNAMICS AND APPROXIMATELY CONSISTENT FORWARD RATE CURVES. Mathematical Finance, 2007, 17, 427-447.	0.9	11
171	On Some Concepts of Generalized Differentials. Set-Valued and Variational Analysis, 2007, 15, 163-183.	0.5	7
172	A Fluid-Dynamic Traffic Model on Road Networks. Archives of Computational Methods in Engineering, 2007, 14, 139-172.	6.0	28
173	Conservation laws with discontinuous flux. Networks and Heterogeneous Media, 2007, 2, 159-179.	0.5	56
174	A continuum-discrete model for supply chains dynamics. Networks and Heterogeneous Media, 2007, 2, 661-694.	0.5	24
175	Feedback Encoding for Efficient Symbolic Control of Dynamical Systems. IEEE Transactions on Automatic Control, 2006, 51, 987-1002.	3.6	19
176	Packet Flow on Telecommunication Networks. SIAM Journal on Mathematical Analysis, 2006, 38, 717-740.	0.9	53
177	Traffic Flow on a Road Network Using the Awâ€“Rascle Model. Communications in Partial Differential Equations, 2006, 31, 243-275.	1.0	140
178	Optimal vaccine scheduling in cancer immunotherapy. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 672-680.	1.2	29
179	Classification of stable time-optimal controls on 2-manifolds. Journal of Mathematical Sciences, 2006, 135, 3109-3124.	0.1	2
180	Optimal Control in a Model of Dendritic Cell Transfection Cancer Immunotherapy. Bulletin of Mathematical Biology, 2006, 68, 255-274.	0.9	89

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181	Fast algorithms for the approximation of a traffic flow model on networks. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2006, 6, 427-448.	0.5	16
182	Numerical approximations of a traffic flow model on networks. <i>Networks and Heterogeneous Media</i> , 2006, 1, 57-84.	0.5	63
183	Time-Scale Dependencies for Image Compression. <i>Journal of Multimedia</i> , 2006, 1, .	0.3	3
184	Improving Efficiency of Finite Plans by Optimal Choice of Input Sets. <i>Lecture Notes in Computer Science</i> , 2006, , 108-122.	1.0	1
185	Quantization of the rolling-body problem with applications to motion planning. <i>Systems and Control Letters</i> , 2005, 54, 999-1013.	1.3	5
186	Hybrid Necessary Principle. <i>SIAM Journal on Control and Optimization</i> , 2005, 43, 1867-1887.	1.1	96
187	Traffic Flow on a Road Network. <i>SIAM Journal on Mathematical Analysis</i> , 2005, 36, 1862-1886.	0.9	285
188	Pumping a swing by standing and squatting: do children pump time optimally?. <i>IEEE Control Systems</i> , 2005, 25, 48-56.	1.0	37
189	Traffic circles and timing of traffic lights for cars flow. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2005, 5, 599-630.	0.5	50
190	Source-Destination Flow on a Road Network. <i>Communications in Mathematical Sciences</i> , 2005, 3, 261-283.	0.5	39
191	OPTIMAL STRATEGIES FOR THE ISSUANCES OF PUBLIC DEBT SECURITIES. <i>International Journal of Theoretical and Applied Finance</i> , 2004, 07, 805-822.	0.2	17
192	Safety controls and applications to the Dubins? car. <i>Nonlinear Differential Equations and Applications</i> , 2004, 11, 73-94.	0.4	5
193	Existence theory for nonclassical entropy solutions of scalar conservation laws. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2004, 55, 927-945.	0.7	3
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