

Nicolas Forcadel

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Reachability and Minimal Times for State Constrained Nonlinear Problems without Any Controllability Assumption. SIAM Journal on Control and Optimization, 2010, 48, 4292-4316.	2.1	94
2	Generalized fast marching method: applications to image segmentation. Numerical Algorithms, 2008, 48, 189-211.	1.9	43
3	Homogenization of some particle systems with two-body interactions and of the dislocation dynamics. Discrete and Continuous Dynamical Systems, 2009, 23, 785-826.	0.9	42
4	Homogenization of fully overdamped Frenkel-Kontorova models. Journal of Differential Equations, 2009, 246, 1057-1097.	2.2	33
5	Convergence of a Generalized Fast-Marching Method for an Eikonal Equation with a Velocity-Changing Sign. SIAM Journal on Numerical Analysis, 2008, 46, 2920-2952.	2.3	25
6	Homogenization of accelerated Frenkel-Kontorova models with n types of particles. Transactions of the American Mathematical Society, 2012, 364, 6187-6227.	0.9	15
7	Deterministic state-constrained optimal control problems without controllability assumptions. ESAIM - Control, Optimisation and Calculus of Variations, 2011, 17, 995-1015.	1.3	14
8	Existence and Uniqueness of Traveling Waves for Fully Overdamped Frenkel-Kontorova Models. Archive for Rational Mechanics and Analysis, 2013, 210, 45-99.	2.4	13
9	From Heterogeneous Microscopic Traffic Flow Models to Macroscopic Models. SIAM Journal on Mathematical Analysis, 2021, 53, 309-322.	1.9	10
10	State-Constrained Optimal Control Problems of Impulsive Differential Equations. Applied Mathematics and Optimization, 2013, 68, 1-19.	1.6	9
11	A Generalized Fast Marching Method for Dislocation Dynamics. SIAM Journal on Numerical Analysis, 2011, 49, 2470-2500.	2.3	8
12	Specified homogenization of a discrete traffic model leading to an effective junction condition. Communications on Pure and Applied Analysis, 2018, 17, 2173-2206.	0.8	7
13	Homogenization of a microscopic pedestrians model on a convergent junction. Mathematical Modelling of Natural Phenomena, 2022, 17, 21.	2.4	6
14	Comparison Principle for a Generalized Fast Marching Method. SIAM Journal on Numerical Analysis, 2009, 47, 1923-1951.	2.3	5
15	Homogenization of second order discrete model with local perturbation and application to traffic flow. Discrete and Continuous Dynamical Systems, 2017, 37, 1437-1487.	0.9	5
16	L^1 -error estimates for numerical approximations of Hamilton-Jacobi-Bellman equations in dimension 1. Mathematics of Computation, 2010, 79, 1395-1426.	2.1	4
17	A short time existence/uniqueness result for a nonlocal topology-preserving segmentation model. Journal of Differential Equations, 2012, 253, 977-995.	2.2	4
18	Uniqueness and existence of spirals moving by forced mean curvature motion. Interfaces and Free Boundaries, 2012, 14, 365-400.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Homogenization of a discrete model for a bifurcation and application to traffic flow. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020, 136, 356-414.	1.6	3
20	A non-local macroscopic model for traffic flow. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 689-711.	1.9	3
21	An Error Estimate for a New Scheme for Mean Curvature Motion. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 2715-2741.	2.3	2
22	Minimizing movements for dislocation dynamics with a mean curvature term. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2009, 15, 214-244.	1.3	2
23	Existence of Solutions for a Model Describing the Dynamics of Junctions Between Dislocations. <i>SIAM Journal on Mathematical Analysis</i> , 2009, 40, 2517-2535.	1.9	2
24	Existence and Uniqueness of Traveling Wave for Accelerated Frenkel-Kontorova Model. <i>Journal of Dynamics and Differential Equations</i> , 2014, 26, 1133-1169.	1.9	2
25	A Semi-Lagrangian Scheme for Hamilton-Jacobi-Bellman Equations on Networks. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 3165-3196.	2.3	2
26	Singular Perturbation of Optimal Control Problems on MultiDomains. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 2917-2943.	2.1	1
27	Steady State and Long Time Convergence of Spirals Moving by Forced Mean Curvature Motion. <i>Communications in Partial Differential Equations</i> , 2015, 40, 1137-1181.	2.2	1
28	Junction Conditions for Hamilton-Jacobi Equations for Solving Real-Time Traffic Flow Problems. <i>IEEE Access</i> , 2019, 7, 114334-114348.	4.2	0
29	Homogenization of a stochastic viscous transport equation. <i>Evolution Equations and Control Theory</i> , 2021, 10, 353-364.	1.3	0
30	Derivation of a Macroscopic LWR Model from a Microscopic follow-the-leader Model by Homogenization. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 272-281.	0.7	0
31	A comparison principle for Hamilton-Jacobi equation with moving in time boundary. <i>Evolution Equations and Control Theory</i> , 2019, 8, 543-565.	1.3	0
32	Stochastic Homogenization of Hamilton-Jacobi Equations on a Junction. <i>Archive for Rational Mechanics and Analysis</i> , 2022, 243, 1223-1267.	2.4	0