Anargiros I Delis

List of Publications by Year
in descending order

43 papers	960 citations	430754 18 h-index	454834 30 g-index
43 all docs	43 docs citations	43 times ranked	688 citing authors

#	Article	IF	Citations
1	PDE-Based Feedback Control of Freeway Traffic Flow via Time-Gap Manipulation of ACC-Equipped Vehicles. IEEE Transactions on Control Systems Technology, 2021, 29, 461-469.	3.2	18
2	An artificial compressibility method for axisymmetric swirling flows. Engineering Computations, 2021, 38, 3732-3767.	0.7	1
3	Shallow Water Equations in Hydraulics: Modeling, Numerics and Applications. Water (Switzerland), 2021, 13, 3598.	1.2	0
4	Motorway traffic flow modelling, estimation and control with vehicle automation and communication systems. Annual Reviews in Control, 2019, 48, 325-346.	4.4	31
5	Feedback Control of Freeway Traffic Flow via Time-Gap Manipulation of ACC-Equipped Vehicles: A PDE-Based Approach. IFAC-PapersOnLine, 2019, 52, 1-6.	0.5	9
6	Using synchronous and asynchronous parallel Differential Evolution for calibrating a second-order traffic flow model. Advances in Engineering Software, 2018, 125, 1-18.	1.8	16
7	A Macroscopic Multi-Lane Traffic Flow Model for ACC/CACC Traffic Dynamics. Transportation Research Record, 2018, 2672, 178-192.	1.0	19
8	Irregular wave propagation with a 2DH Boussinesq-type model and an unstructured finite volume scheme. European Journal of Mechanics, B/Fluids, 2018, 72, 432-448.	1.2	7
9	A finite difference solver for incompressible Navierâ€"Stokes flows in complex domains. Applied Numerical Mathematics, 2017, 115, 275-298.	1.2	4
10	Numerical modeling of sediment transport applied to coastal morphodynamics. Applied Numerical Mathematics, 2016, 104, 30-46.	1.2	13
11	Nonlinear Stability Analysis of a Macroscopic Traffic Flow Model for Adaptive Cruise Control Systems. , 2016, , .		1
12	Simulation of the penetration rate effects of ACC and CACC on macroscopic traffic dynamics. , 2016, , .		25
13	Calibration of a second-order traffic flow model using a metamodel-assisted Differential Evolution algorithm. , 2016, , .		3
14	Advanced Numerical Simulation of Near-Shore Processes by Extended Boussinesq-Type Models on Unstructured Meshes. Mathematics in Industry, 2016, , 543-551.	0.1	0
15	Macroscopic Modelling and Simulation of Multi-lane Traffic. , 2015, , .		1
16	Stability Analysis of a Macroscopic Traffic Flow Model for Adaptive Cruise Control Systems. , 2015, , .		2
17	Macroscopic Modelling and Simulation of ACC and CACC Traffic. , 2015, , .		12
18	Relaxation approximations to second-order traffic flow models by high-resolution schemes. AIP Conference Proceedings, 2015, , .	0.3	0

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19	Macroscopic traffic flow modeling with adaptive cruise control: Development and numerical solution. Computers and Mathematics With Applications, 2015, 70, 1921-1947.	1.4	77
20	Numerical treatment of wave breaking on unstructured finite volume approximations for extended Boussinesq-type equations. Journal of Computational Physics, 2014, 271, 281-305.	1.9	81
21	High-resolution numerical relaxation approximations to second-order macroscopic traffic flow models. Transportation Research Part C: Emerging Technologies, 2014, 44, 318-349.	3.9	38
22	A novel multidimensional solution reconstruction and edgeâ€based limiting procedure for unstructured cellâ€centered finite volumes with application to shallow water dynamics. International Journal for Numerical Methods in Fluids, 2013, 71, 584-633.	0.9	31
23	A well-balanced shock-capturing hybrid finite volumeâ€"finite difference numerical scheme for extended 1D Boussinesq models. Applied Numerical Mathematics, 2013, 67, 167-186.	1.2	31
24	A finite element discretization of the standard parabolic equation in generalized boundary fitting coordinates. Applied Numerical Mathematics, 2013, 67, 152-166.	1.2	5
25	An unstructured finite volume numerical scheme for extended 2D Boussinesq-type equations. Coastal Engineering, 2012, 69, 42-66.	1.7	50
26	Performance and Comparison of Cell-Centered andÂNode-Centered Unstructured Finite Volume Discretizations forÂShallow Water Free Surface Flows. Archives of Computational Methods in Engineering, 2011, 18, 57-118.	6.0	50
27	Finite volume simulation of waves formed by sliding masses. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 732-757.	1.0	1
28	A Weil-Balanced Node-Centered Finite Volume Scheme for Shallow Water Flows with Wetting and Drying. , 2009, , .		0
29	A finite volume method parallelization for the simulation of free surface shallow water flows. Mathematics and Computers in Simulation, 2009, 79, 3339-3359.	2.4	9
30	An unstructured node-centered finite volume scheme for shallow water flows with wet/dry fronts over complex topography. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3723-3750.	3.4	97
31	A robust high-resolution finite volume scheme for the simulation of long waves over complex domains. International Journal for Numerical Methods in Fluids, 2008, 56, 419-452.	0.9	54
32	Relaxation approximation to bed-load sediment transport. Journal of Computational and Applied Mathematics, 2008, 213, 521-546.	1.1	26
33	Behavior of Finite Volume Schemes for Hyperbolic Conservation Laws on Adaptive Redistributed Spatial Grids. SIAM Journal of Scientific Computing, 2006, 28, 1927-1956.	1.3	9
34	Numerical solution of the two-dimensional shallow water equations by the application of relaxation methods. Applied Mathematical Modelling, 2005, 29, 754-783.	2.2	45
35	A Generalized Relaxation Method for Transport and Diffusion of Pollutant Models in Shallow Water. Computational Methods in Applied Mathematics, 2004, 4, 410-430.	0.4	11
36	Relaxation schemes for the shallow water equations. International Journal for Numerical Methods in Fluids, 2003, 41, 695-719.	0.9	40

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37	Improved application of the HLLE Riemann solver for the shallow water equations with source terms. Communications in Numerical Methods in Engineering, 2002, 19, 59-83.	1.3	21
38	HIGHER ORDER NUMERICAL METHODS EVALUATION FOR THE COMPUTATION OF ONE DIMENSIONAL FREE SURFACE SHALLOW WATER FLOWS. International Journal of Computational Engineering Science, 2002, 03, 13-55.	0.1	3
39	Evaluation of some approximate Riemann solvers for transient open channel flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2000, 38, 217-231.	0.7	31
40	Implicit high-resolution methods for modelling one-dimensional open channel flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2000, 38, 369-382.	0.7	30
41	TVD schemes for open channel flow. International Journal for Numerical Methods in Fluids, 1998, 26, 791-809.	0.9	53
42	TVD schemes for open channel flow. International Journal for Numerical Methods in Fluids, 1998, 26, 791-809.	0.9	1
43	Numerical simulations of hydraulic jumps with the Shear Shallow Water model. SMAI Journal of Computational Mathematics, 0, 4, 319-344.	0.0	4