

Suh-Wen Chiou

List of Publications by Year in descending order

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53
papers

697
citations

686830

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22
g-index

53
all docs

53
docs citations

53
times ranked

410
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Area Traffic Control for Equilibrium Network Flows. <i>Transportation Science</i> , 1999, 33, 279-289.	2.6	72
2	Bilevel programming for the continuous transport network design problem. , 2005, 39, 361-361.		66
3	TRANSYT derivatives for area traffic control optimisation with network equilibrium flows. <i>Transportation Research Part B: Methodological</i> , 2003, 37, 263-290.	2.8	55
4	Optimal design of signal-controlled road network. <i>Applied Mathematics and Computation</i> , 2007, 189, 1-8.	1.4	50
5	A hybrid approach for optimal design of signalized road network. <i>Applied Mathematical Modelling</i> , 2008, 32, 195-207.	2.2	36
6	Reserve capacity of signal-controlled road network. <i>Applied Mathematics and Computation</i> , 2007, 190, 1602-1611.	1.4	28
7	A bi-level programming for logistics network design with system-optimized flows. <i>Information Sciences</i> , 2009, 179, 2434-2441.	4.0	24
8	A subgradient optimization model for continuous road network design problem. <i>Applied Mathematical Modelling</i> , 2009, 33, 1386-1396.	2.2	24
9	Joint optimization for area traffic control and network flow. <i>Computers and Operations Research</i> , 2005, 32, 2821-2841.	2.4	22
10	A risk-averse signal setting policy for regulating hazardous material transportation under uncertain travel demand. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 50, 446-472.	3.2	19
11	A traffic-responsive signal control to enhance road network resilience with hazmat transportation in multiple periods. <i>Reliability Engineering and System Safety</i> , 2018, 175, 105-118.	5.1	18
12	A bi-objective bi-level signal control policy for transport of hazardous materials in urban road networks. <i>Transportation Research, Part D: Transport and Environment</i> , 2016, 42, 16-44.	3.2	17
13	An efficient algorithm for optimal design of area traffic control with network flows. <i>Applied Mathematical Modelling</i> , 2009, 33, 2710-2722.	2.2	15
14	Optimization of robust area traffic control with equilibrium flow under demand uncertainty. <i>Computers and Operations Research</i> , 2014, 41, 399-411.	2.4	15
15	A bi-level decision support system for uncertain network design with equilibrium flow. <i>Decision Support Systems</i> , 2015, 69, 50-58.	3.5	14
16	Optimal signal-setting for road network with maximum capacity. <i>Information Sciences</i> , 2014, 273, 287-303.	4.0	12
17	A resilience-based signal control for a time-dependent road network with hazmat transportation. <i>Reliability Engineering and System Safety</i> , 2020, 193, 106570.	5.1	12
18	A non-smooth model for signalized road network design problems. <i>Applied Mathematical Modelling</i> , 2008, 32, 1179-1190.	2.2	11

#	ARTICLE	IF	CITATIONS
19	A robust urban traffic network design with signal settings. Information Sciences, 2016, 334-335, 144-160.	4.0	11
20	Simultaneously optimizing link tolls and signal settings in a road network. Applied Mathematical Modelling, 2009, 33, 2311-2323.	2.2	10
21	An efficient algorithm for computing traffic equilibria using TRANSYT model. Applied Mathematical Modelling, 2010, 34, 3390-3399.	2.2	10
22	A data-driven bi-level program for knowledge-based signal control system under uncertainty. Knowledge-Based Systems, 2018, 160, 210-227.	4.0	10
23	A non-smooth optimization model for a two-tiered supply chain network. Information Sciences, 2007, 177, 5754-5762.	4.0	9
24	A generalized iterative scheme for network design problem. Applied Mathematics and Computation, 2007, 188, 1115-1123.	1.4	9
25	Optimization of limited network capacity with toll settings. Information Sciences, 2009, 179, 109-119.	4.0	9
26	Optimization of a nonlinear area traffic control system with elastic demand. Automatica, 2010, 46, 1626-1635.	3.0	9
27	A two-stage model for period-dependent traffic signal control in a road networked system with stochastic travel demand. Information Sciences, 2019, 476, 256-273.	4.0	8
28	Optimization for signal setting problems using non-smooth techniques. Information Sciences, 2009, 179, 2985-2996.	4.0	7
29	A robust signal control system for equilibrium flow under uncertain travel demand and traffic delay. Automatica, 2018, 96, 240-252.	3.0	7
30	An optimal scheme for toll pricing problem. Applied Mathematics and Computation, 2006, 182, 1127-1136.	1.4	6
31	A globally convergent iterative scheme for toll design network with signal settings. Applied Mathematics and Computation, 2007, 187, 1086-1099.	1.4	6
32	An efficient computation algorithm for area traffic control problem with link capacity expansions. Applied Mathematics and Computation, 2007, 188, 1094-1102.	1.4	6
33	Robust Stochastic Design of Signal-Controlled Road Network Under Uncertain Travel Demands. IEEE Transactions on Automatic Control, 2017, 62, 3152-3164.	3.6	6
34	A combinatorial approximation algorithm for concurrent flow problem and its application. Computers and Operations Research, 2005, 32, 1007-1035.	2.4	5
35	A hybrid optimization algorithm for area traffic control problem. Journal of the Operational Research Society, 2007, 58, 816-823.	2.1	5
36	An optimization model for area traffic control with link tolls. Applied Mathematics and Computation, 2007, 192, 520-532.	1.4	5

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37	Optimization of congestion pricing road network with variable demands. Applied Mathematics and Computation, 2008, 195, 382-391.	1.4	5
38	An efficient search algorithm for road network optimization. Applied Mathematics and Computation, 2008, 201, 128-137.	1.4	5
39	A cutting plane projection method for bi-level area traffic control optimization with uncertain travel demand. Applied Mathematics and Computation, 2015, 266, 390-403.	1.4	5
40	Vulnerability Analysis of a Signal-Controlled Road Network for Equilibrium Flow. , 2015, , 109-142.		5
41	A novel algorithm for area traffic capacity control with elastic travel demands. Applied Mathematical Modelling, 2011, 35, 650-666.	2.2	4
42	Bi-level Formulation for Equilibrium Traffic Flow and Signal Settings. , 1998, , 59-68.		3
43	Comparative tests of solution methods for signal-controlled road networks. Information Sciences, 2007, 177, 4109-4121.	4.0	3
44	An iterative scheme for signal settings and network flows. Applied Mathematics and Computation, 2007, 189, 1808-1815.	1.4	3
45	A fast polynomial time algorithm for logistics network flows. Applied Mathematics and Computation, 2008, 199, 162-170.	1.4	3
46	An Efficient Bundle-Like Algorithm for Data-Driven Multi-objective Bi-level Signal Design for Traffic Networks with Hazardous Material Transportation. , 2019, , 191-220.		3
47	Bi-level Formulation for Equilibrium Traffic Flow and Signal Settings. , 1998, , 59-68.		3
48	A combinatorial approximation algorithm for supply chain network flow problem. Applied Mathematics and Computation, 2007, 186, 1526-1536.	1.4	2
49	A descent framework for linked signal system with network flows. Applied Mathematics and Computation, 2007, 194, 441-452.	1.4	2
50	A Data-Driven Traffic-Responsive Signal Control for a Smart City Road Network Under Uncertainty. Profiles in Operations Research, 2021, , 119-146.	0.3	2
51	Data-Driven Stochastic Optimization for Transportation Road Network Design Under Uncertainty. Advances in Data Mining and Database Management Book Series, 2020, , 231-278.	0.4	1
52	Maximizing reserve capacity for a signalized road network design problem. , 2006, , .		0
53	A Bundle-Like Algorithm for Big Data Network Design with Risk-Averse Signal Control Optimization. , 2017, , 161-199.		0