Avinash Unnikrishnan

List of Publications by Year
in descending order

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		361388	361001
57	1,391	20	35
papers	citations	h-index	g-index

57	57	57	1318
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of large truck crash severity using heteroskedastic ordered probit models. Accident Analysis and Prevention, 2011, 43, 370-380.	5.7	164
2	A time of day analysis of crashes involving large trucks in urban areas. Accident Analysis and Prevention, 2015, 75, 155-163.	5.7	130
3	Maximum coverage capacitated facility location problem with range constrained drones. Transportation Research Part C: Emerging Technologies, 2019, 99, 1-18.	7.6	116
4	Robust hub network design problem. Transportation Research, Part E: Logistics and Transportation Review, 2014, 70, 356-373.	7.4	61
5	Home-deliveries before-during COVID-19 lockdown: Accessibility, environmental justice, equity, and policy implications. Transportation Research, Part D: Transport and Environment, 2021, 93, 102760.	6.8	60
6	A three level location-inventory problem with correlated demand. Transportation Research Part B: Methodological, 2014, 69, 1-18.	5.9	57
7	Parking search equilibrium on a network. Transportation Research Part B: Methodological, 2015, 81, 390-409.	5.9	54
8	User Equilibrium with Recourse. Networks and Spatial Economics, 2009, 9, 575-593.	1.6	53
9	Integrated Inventory Control and Facility Location Decisions in a Multi-Echelon Supply Chain Network with Hubs. Networks and Spatial Economics, 2013, 13, 497-514.	1.6	48
10	A coordinated location-inventory problem in closed-loop supply chain. Transportation Research Part B: Methodological, 2016, 89, 127-148.	5.9	47
11	An outer approximation algorithm for the robust shortest path problem. Transportation Research, Part E: Logistics and Transportation Review, 2013, 58, 52-66.	7.4	42
12	Characterizations and Quantitative Estimation of Alkali-Activated Binder Paste from Microstructures. International Journal of Concrete Structures and Materials, 2014, 8, 213-228.	3.2	29
13	Models for Minimizing Backhaul Costs through Freight Collaboration. Transportation Research Record, 2011, 2224, 51-60.	1.9	27
14	Microanalysis and optimization-based estimation of Câ€“Sâ€“H contents of cementitious systems containing fly ash and silica fume. Cement and Concrete Composites, 2012, 34, 419-429.	10.7	27
15	Robust Optimization Strategy for the Shortest Path Problem under Uncertain Link Travel Cost Distribution. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 433-448.	9.8	27
16	Exploratory analysis of factors affecting levels of home deliveries before, during, and post- COVID-19. Transportation Research Interdisciplinary Perspectives, 2021, 10, 100402.	2.7	26
17	Robust Pricing of Transportation Networks under Uncertain Demand. Transportation Research Record, 2008, 2085, 21-30.	1.9	25
18	Exploring the impact of socio-demographic characteristics, health concerns, and product type on home delivery rates and expenditures during a strict COVID-19 lockdown period: A case study from Portland, OR. Transportation Research, Part A: Policy and Practice, 2021, 153, 1-19.	4.2	23

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19	Two-stage robust facility location problem with drones. Transportation Research Part C: Emerging Technologies, 2022, 137, 103563.	7.6	23
20	Solution Methods for Robust Pricing of Transportation Networks under Uncertain Demand. Transportation Research Part C: Emerging Technologies, 2010, 18, 656-667.	7.6	22
21	Estimation of Câ€“S-H and calcium hydroxide for cement pastes containing slag and silica fume. Construction and Building Materials, 2012, 30, 505-515.	7.2	22
22	Integrated Traffic Simulationâ€“Statistical Analysis Framework for Online Prediction of Freeway Travel Time. Transportation Research Record, 2007, 2039, 24-31.	1.9	20
23	Influence of Demand Uncertainty and Correlations on Traffic Predictions and Decisions. Computer-Aided Civil and Infrastructure Engineering, 2009, 26, 16.	9.8	19
24	Online Freight Network Assignment Model with Transportation Disruptions and Recourse. Transportation Research Record, 2011, 2224, 17-25.	1.9	19
25	User Equilibrium with Recourse: Continuous Network Design Problem. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 512-524.	9.8	19
26	Modeling Parking Search on a Network by Using Stochastic Shortest Paths with History Dependence. Transportation Research Record, 2014, 2467, 73-79.	1.9	16
27	Joint productionâ€“inventoryâ€“location problem with multi-variate normal demand. Transportation Research Part B: Methodological, 2018, 110, 60-78.	5.9	16
28	A Dual Variable Approximation Based Heuristic for Dynamic Congestion Pricing. Networks and Spatial Economics, 2011, 11, 271-293.	1.6	14
29	Stochastic and Dynamic Shipper Carrier Network Design Problem. Networks and Spatial Economics, 2009, 9, 525-550.	1.6	12
30	Centralized Carrier Collaboration Multihub Location Problem for Less-Than-Truckload Industry. Transportation Research Record, 2012, 2269, 20-28.	1.9	12
31	Composite modeling to predict shrinkage of concretes containing supplementary cementitious materials from paste volumes. Construction and Building Materials, 2013, 43, 139-155.	7.2	12
32	Evaluation of Shared Space to Reduce Traffic Congestion. Journal of Advanced Transportation, 2019, 2019, 1-10.	1.7	12
33	Network Route Choice Model for Battery Electric Vehicle Drivers with Different Risk Attitudes. Transportation Research Record, 2015, 2498, 75-83.	1.9	11
34	Tabu Search Heuristic for Joint Location-Inventory Problem with Stochastic Inventory Capacity and Practicality Constraints. Networks and Spatial Economics, 2018, 18, 51-84.	1.6	11
35	Case Study of Drone Delivery Reliability for Time-Sensitive Medical Supplies With Stochastic Demand and Meteorological Conditions. Transportation Research Record, 2022, 2676, 242-255.	1.9	11
36	Hydroclimatic sustainability assessment of changing climate on cholera in the Ganges-Brahmaputra basin. Advances in Water Resources, 2017, 108, 332-344.	3.8	10

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37	Robust Maximum Coverage Facility Location Problem with Drones Considering Uncertainties in Battery Availability and Consumption. Transportation Research Record, 2021, 2675, 25-39.	1.9	10
38	Inventory Routing Problem with Route Duration Limits and Stochastic Inventory Capacity Constraints. Transportation Research Record, 2013, 2378, 43-53.	1.9	9
39	A genetic algorithm for bi-level linear programming dynamic network design problem. Transportation Letters, 2009, 1, 281-294.	3.1	8
40	Modeling carrier collaboration in freight networks. Transportation Letters, 2011, 3, 51-61.	3.1	8
41	Distribution and Antibiotic Resistance Profiles of Salmonella enterica in Rural Areas of North Carolina After Hurricane Florence in 2018. GeoHealth, 2021, 5, e2020GH000294.	4.0	8
42	Predictive Time Series Analysis Linking Bengal Cholera with Terrestrial Water Storage Measured from Gravity Recovery and Climate Experiment Sensors. American Journal of Tropical Medicine and Hygiene, 2015, 93, 1179-1186.	1.4	7
43	Marginal cost pricing for system optimal traffic assignment with recourse under supply-side uncertainty. Transportation Research Part B: Methodological, 2018, 110, 104-121.	5.9	7
44	Capacitated-Vehicle Routing Problem with Backhauls on Trees. Transportation Research Record, 2011, 2263, 92-102.	1.9	6
45	Optimizing Ambulance Locations for Coverage Enhancement of Accident Sites in South Delhi. Transportation Research Procedia, 2020, 48, 280-289.	1.5	6
46	Survival Analysis of Concrete Highway Bridge Decks in Oregon Utilizing LASSO and Stepwise-Variable Selection. Journal of Bridge Engineering, 2020, 25, .	2.9	6
47	Robust Multi-Period Maximum Coverage Drone Facility Location Problem Considering Coverage Reliability. Transportation Research Record, 2023, 2677, 98-114.	1.9	6
48	Evidence from Urban Roads without Bicycle Lanes on the Impact of Bicycle Traffic on Passenger Car Travel Speeds. Transportation Research Record, 2020, 2674, 87-98.	1.9	4
49	Capacitated Centralized Carrier Collaboration Multihub Location Problem. Transportation Research Record, 2014, 2466, 22-30.	1.9	3
50	Heuristic Scheme for Heterogeneous Vehicle Routing Problem on Trees Based on Generalized Assignment and Bin-Packing Upper Bounds. Transportation Research Record, 2012, 2283, 1-11.	1.9	2
51	Maximum Profit Facility Location and Dynamic Resource Allocation for Instant Delivery Logistics. Transportation Research Record, 2022, 2676, 697-710.	1.9	2
52	Statistical regression models for predicting the swelling pressure of compacted expansive soils. International Journal of Geotechnical Engineering, 2013, 7, 431-437.	2.0	1
53	Adaptive routing behavior with real-time information under multiple travel objectives. Transportation Research Interdisciplinary Perspectives, 2021, 10, 100395.	2.7	1
54	Freight Transportation Network Design Problem for Maximizing throughput under Uncertainty. Transportation Research Record, 2009, 2090, 105-114.	1.9	0

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55	Model for Network Assignment Problem of Capacitated Freight with Disruptions. Transportation Research Record, 2012, 2269, 11-19.	1.9	0
56	Empirical Study of the Impacts of Bicycles on Passenger Car Speeds on Urban Roads without Bicycle Lanes. Transportation Research Record, 0, , 036119812110041.	1.9	0
57	Evaluation of Posted Speed Limits Reductions on Urban Roads with a High Percentage of Cyclists. Transportation Research Record, 0, , 036119812210761.	1.9	0