

Keemin Sohn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

931
citations

18
h-index

29
g-index

49
ext. papers

1,186
ext. citations

4.4
avg, IF

5
L-index

#	Paper	IF	Citations
48	Area-wide traffic signal control based on a deep graph Q-Network (DGQN) trained in an asynchronous manner. <i>Applied Soft Computing Journal</i> , 2022 , 108497	7.5	0
47	Imputing qualitative attributes for trip chains extracted from smart card data using a conditional generative adversarial network. <i>Transportation Research Part C: Emerging Technologies</i> , 2022 , 137, 103616	8.4	0
46	Special issue on smart cities and its applications. <i>ETRI Journal</i> , 2022 , 44, 179-182	1.4	1
45	Transferability of a Convolutional Neural Network (CNN) to Measure Traffic Density. <i>Electronics (Switzerland)</i> , 2021 , 10, 1189	2.6	1
44	Predicting Short-Term Traffic Speed Using a Deep Neural Network to Accommodate Citywide Spatio-Temporal Correlations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 1435-1448	6.1	7
43	Multi-Regime Analysis for Computer Vision- Based Traffic Surveillance Using a Change-Point Detection Algorithm. <i>IEEE Access</i> , 2021 , 9, 40980-40995	3.5	0
42	Non-Anchor-Based Vehicle Detection for Traffic Surveillance Using Bounding Ellipses. <i>IEEE Access</i> , 2021 , 9, 123061-123074	3.5	2
41	Variational embedding of a hidden Markov model to generate human activity sequences. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 131, 103347	8.4	3
40	Measuring Traffic Volumes Using an Autoencoder with No Need to Tag Images with Labels. <i>Electronics (Switzerland)</i> , 2020 , 9, 702	2.6	
39	Forecasting road traffic speeds by considering area-wide spatio-temporal dependencies based on a graph convolutional neural network (GCN). <i>Transportation Research Part C: Emerging Technologies</i> , 2020 , 114, 189-204	8.4	49
38	Reinforcement Learning for Joint Control of Traffic Signals in a Transportation Network. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 1375-1387	6.8	6
37	Image-Based Learning to Measure the Space Mean Speed on a Stretch of Road without the Need to Tag Images with Labels. <i>Sensors</i> , 2019 , 19,	3.8	10
36	Image-to-Image Learning to Predict Traffic Speeds by Considering Area-Wide Spatio-Temporal Dependencies. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 1188-1197	6.8	25
35	Image-Based Learning to Measure the Stopped Delay in an Approach of a Signalized Intersection. <i>IEEE Access</i> , 2019 , 7, 169888-169898	3.5	3
34	Facilitating an expectation-maximization (EM) algorithm to solve an integrated choice and latent variable (ICLV) model with fully correlated latent variables. <i>Journal of Choice Modelling</i> , 2018 , 26, 64-79	3.8	1
33	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 1670-1675	6.1	47
32	Deep-Learning Technique To Convert a Crude Piezoresistive Carbon Nanotube-Ecoflex Composite Sheet into a Smart, Portable, Disposable, and Extremely Flexible Keypad. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20862-20868	9.5	15

31	Artificial intelligence for traffic signal control based solely on video images. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2018 , 22, 433-445	3.2	18
30	An extremely simple macroscale electronic skin realized by deep machine learning. <i>Scientific Reports</i> , 2017 , 7, 11061	4.9	32
29	Deep-learning architecture to forecast destinations of bus passengers from entry-only smart-card data. <i>IET Intelligent Transport Systems</i> , 2017 , 11, 334-339	2.4	32
28	An Expectation-Maximization Algorithm to Estimate the Integrated Choice and Latent Variable Model. <i>Transportation Science</i> , 2017 , 51, 946-967	4.4	4
27	Classification of crystal structure using a convolutional neural network. <i>IUCrJ</i> , 2017 , 4, 486-494	4.7	83
26	An investigation into passenger preference for express trains during peak hours. <i>Transportation</i> , 2016 , 43, 623-641	4	10
25	Clustering the seoul metropolitan area by travel patterns based on a deep belief network 2016 ,		5
24	Activity imputation for trip-chains elicited from smart-card data using a continuous hidden Markov model. <i>Transportation Research Part B: Methodological</i> , 2016 , 83, 121-135	7.2	54
23	Deep-Learning Architectures to Forecast Bus Ridership at the Stop and Stop-To-Stop Levels for Dense and Crowded Bus Networks. <i>Applied Artificial Intelligence</i> , 2016 , 30, 861-885	2.3	11
22	Inferring the route-use patterns of metro passengers based only on travel-time data within a Bayesian framework using a reversible-jump Markov chain Monte Carlo (MCMC) simulation. <i>Transportation Research Part B: Methodological</i> , 2015 , 81, 1-17	7.2	30
21	Commuter dependence on expressways when travelling to work. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2015 , 168, 23-33	0.5	2
20	Why do passengers choose a specific car of a metro train during the morning peak hours?. <i>Transportation Research, Part A: Policy and Practice</i> , 2014 , 61, 249-258	3.7	19
19	Transportation Deficiencies for Older Adults in Seoul, South Korea. <i>Transportation Research Record</i> , 2014 , 2469, 76-88	1.7	11
18	Identifying the Impact on Land Prices of Replacing At-grade or Elevated Railways with Underground Subways in the Seoul Metropolitan Area. <i>Urban Studies</i> , 2014 , 51, 44-62	3.2	16
17	Feature Mapping the Seoul Metro Station Areas Based on a Self-Organizing Map. <i>Journal of Urban Technology</i> , 2013 , 20, 23-42	5.9	6
16	Calibrating a social-force-based pedestrian walking model based on maximum likelihood estimation. <i>Transportation</i> , 2013 , 40, 91-107	4	34
15	Identifying driver heterogeneity in car-following based on a random coefficient model. <i>Transportation Research Part C: Emerging Technologies</i> , 2013 , 36, 35-44	8.4	22
14	Optimizing Train-Stop Positions Along a Platform to Distribute the Passenger Load More Evenly Across Individual Cars. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 994-1002	6.1	9

13	Increasing the number of bicycle commuters. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2012 , 165, 63-72	0.5	7
12	An analysis of Metro ridership at the station-to-station level in Seoul. <i>Transportation</i> , 2012 , 39, 705-722	4	73
11	An investigation into the station capacities for personal rapid transit systems. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2012 , 226, 457-468	1.4	3
10	Multi-objective optimization of a road diet network design. <i>Transportation Research, Part A: Policy and Practice</i> , 2011 , 45, 499-511	3.7	14
9	Analyzing the time frame for the transition from leisure-cyclist to commuter-cyclist. <i>Transportation</i> , 2011 , 38, 305-319	4	18
8	Zonal centrality measures and the neighborhood effect. <i>Transportation Research, Part A: Policy and Practice</i> , 2010 , 44, 733-743	3.7	8
7	Factors generating boardings at Metro stations in the Seoul metropolitan area. <i>Cities</i> , 2010 , 27, 358-368	5.6	95
6	Statistical Model for Forecasting Link Travel Time Variability. <i>Journal of Transportation Engineering</i> , 2009 , 135, 440-453		17
5	Separation of car-dependent commuters from normal-choice riders in mode-choice analysis. <i>Transportation</i> , 2009 , 36, 423-436	4	26
4	Systematic control of experimental inconsistency in combinatorial materials science. <i>ACS Combinatorial Science</i> , 2009 , 11, 131-7		8
3	Dynamic Origin-Destination Flow Estimation Using Cellular Communication System. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 2703-2713	6.8	51
2	A systematic decision criterion for the elimination of useless overpasses. <i>Transportation Research, Part A: Policy and Practice</i> , 2008 , 42, 1043-1055	3.7	4
1	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2008 , 9, 559-568	6.1	39