

# Dong-Kyu Kim

## 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.

99 papers	919 citations	17 h-index	25 g-index
101 ext. papers	1,167 ext. citations	2.8 avg, IF	4.81 L-index

#	Paper	IF	Citations
99	Exploring for Route Preferences of Subway Passengers Using Smart Card and Train Log Data. <i>Journal of Advanced Transportation</i> , <b>2022</b> , 2022, 1-14	1.9	1
98	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> , <b>2022</b> , 137, 103616	8.4	0
97	Crystal plasticity finite element analysis of size effect on the formability of ultra-thin ferritic stainless steel sheet for fuel cell bipolar plate. <i>International Journal of Plasticity</i> , <b>2022</b> , 154, 103298	7.6	0
96	Multi-scale causality analysis between COVID-19 cases and mobility using ensemble empirical mode decomposition and causal decomposition.. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2022</b> , 127488	3.3	0
95	Rebalancing Docked Bicycle Sharing System with Approximate Dynamic Programming and Reinforcement Learning. <i>Journal of Advanced Transportation</i> , <b>2022</b> , 2022, 1-14	1.9	1
94	Application of naïve Bayesian approach in detecting reproducible fatal collision locations on freeway. <i>PLoS ONE</i> , <b>2021</b> , 16, e0251866	3.7	
93	A comparative analysis of the users of private cars and public transportation for intermodal options under Mobility-as-a-Service in Seoul. <i>Travel Behaviour &amp; Society</i> , <b>2021</b> , 24, 68-80	5.3	6
92	Travel time prediction using gated recurrent unit and spatio-temporal algorithm. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , <b>2021</b> , 174, 88-96	0.5	4
91	Predicting demand for a bike-sharing system with station activity based on random forest. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , <b>2021</b> , 174, 97-107	0.5	2
90	Interpretable machine-learning models for estimating trip purpose in smart card data. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , <b>2021</b> , 174, 108-117	0.5	4
89	Valuation of Metro Crowding Considering Heterogeneity of Route Choice Behaviors. <i>Transportation Research Record</i> , <b>2021</b> , 2675, 162-173	1.7	6
88	Earing Reduction by Varying Blank Holding Force in Deep Drawing with Deep Neural Network. <i>Metals</i> , <b>2021</b> , 11, 395	2.3	3
87	Tourists' preference on the combination of travel modes under Mobility-as-a-Service environment. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2021</b> , 150, 236-255	3.7	2
86	Die Design for Extrusion Process of Titanium Seamless Tube Using Finite Element Analysis. <i>Metals</i> , <b>2021</b> , 11, 1338	2.3	0
85	Effect of hot isostatic pressing on the cryogenic mechanical properties of CrCoNi medium entropy alloy processed by direct energy deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 828, 142110	5.3	2
84	Modeling the competitiveness of a bike-sharing system using bicycle GPS and transit smartcard data. <i>Transportation Letters</i> , <b>2020</b> , 1-5	2.1	7
83	A new contour method for rapid evaluation of the cross-sectional residual stress distribution in complex geometries using a 3D scanner. <i>Journal of Mechanical Science and Technology</i> , <b>2020</b> , 34, 1989-1996	1.6	2

82	Analysis of overlapping origin-destination pairs between bus stations to enhance the efficiency of bus operations. <i>IET Intelligent Transport Systems</i> , <b>2020</b> , 14, 545-553	2.4	1
81	Investigation of Effects of Inherent Variation and Spatiotemporal Dependency on Urban Travel-Speed Prediction. <i>Journal of Transportation Engineering Part A: Systems</i> , <b>2020</b> , 146, 04020027	1.5	4
80	Multiple membership multilevel model to estimate intersection crashes. <i>Accident Analysis and Prevention</i> , <b>2020</b> , 144, 105589	6.1	3
79	Effects of Road Networks on Vehicle-Pedestrian Crashes in Seoul. <i>The Journal of the Korea Institute of Intelligent Transport Systems</i> , <b>2020</b> , 19, 18-35	0.2	
78	Spatiotemporal filtering method for detecting kinematic waves in a connected environment. <i>PLoS ONE</i> , <b>2020</b> , 15, e0244329	3.7	2
77	An optimal network screening method of hotspot identification for highway crashes with dynamic site length. <i>Accident Analysis and Prevention</i> , <b>2020</b> , 135, 105358	6.1	5
76	Investigating the Influential Factors for Practical Application of Multi-Class Vehicle Detection for Images from Unmanned Aerial Vehicle using Deep Learning Models. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 553-567	1.7	4
75	Effects of speed humps on vehicle speed and pedestrian crashes in South Korea. <i>Journal of Safety Research</i> , <b>2020</b> , 75, 78-86	4	5
74	Development of a Model for Evaluating the Coverage Area of Transit Center Using Smart Card Data. <i>Journal of Advanced Transportation</i> , <b>2020</b> , 2020, 1-13	1.9	4
73	Safety evaluation of four safety countermeasures on freeways in South Korea. <i>Journal of Transportation Safety and Security</i> , <b>2020</b> , 12, 945-958	1.7	3
72	Spatiotemporal filtering method for detecting kinematic waves in a connected environment <b>2020</b> , 15, e0244329		
71	Spatiotemporal filtering method for detecting kinematic waves in a connected environment <b>2020</b> , 15, e0244329		
70	Spatiotemporal filtering method for detecting kinematic waves in a connected environment <b>2020</b> , 15, e0244329		
69	Spatiotemporal filtering method for detecting kinematic waves in a connected environment <b>2020</b> , 15, e0244329		
68	Evaluating the Efficiency of Transit-Oriented Development Using Network Slacks-Based Data Envelopment Analysis. <i>Energies</i> , <b>2019</b> , 12, 3609	3.1	6
67	Effect of Quenching Tempering-Post Weld Heat Treatment on the Microstructure and Mechanical Properties of Laser-Arc Hybrid-Welded Boron Steel. <i>Materials</i> , <b>2019</b> , 12,	3.5	3
66	A Travel Behavior-Based Skip-Stop Strategy Considering Train Choice Behaviors Based on Smartcard Data. <i>Sustainability</i> , <b>2019</b> , 11, 2791	3.6	10
65	Correlation of localized residual stresses with ductile fracture toughness using in situ neutron diffraction and finite element modelling. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 160, 332-342	5.5	7

64	Enhanced Application of Principal Component Analysis in Machine Learning for Imputation of Missing Traffic Data. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2149	2.6	7
63	Microstructure and mechanical anisotropy of CoCrW alloy processed by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 749, 65-73	5.3	22
62	A Transit Route Network Design Problem Considering Equity. <i>Sustainability</i> , <b>2019</b> , 11, 3527	3.6	7
61	Injury Severity of Bus-Pedestrian Crashes in South Korea Considering the Effects of Regional and Company Factors. <i>Sustainability</i> , <b>2019</b> , 11, 3169	3.6	13
60	Extracting Vehicle Trajectories Using Unmanned Aerial Vehicles in Congested Traffic Conditions. <i>Journal of Advanced Transportation</i> , <b>2019</b> , 2019, 1-16	1.9	17
59	Assessing transit competitiveness in Seoul considering actual transit travel times based on smart card data. <i>Journal of Transport Geography</i> , <b>2019</b> , 80, 102546	5.2	12
58	Bayesian models with spatial autocorrelation for bike sharing ridership variability based on revealed preference GPS trajectory data. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 1658-1667	2.4	6
57	A Hybrid Approach Based on Variational Mode Decomposition for Analyzing and Predicting Urban Travel Speed. <i>Journal of Advanced Transportation</i> , <b>2019</b> , 2019, 1-12	1.9	7
56	Evaluation of Transfer Efficiency between Bus and Subway based on Data Envelopment Analysis using Smart Card Data. <i>KSCE Journal of Civil Engineering</i> , <b>2019</b> , 23, 788-799	1.9	19
55	Effect of interlayers and scanning strategies on through-thickness residual stress distributions in additive manufactured ferritic-austenitic steel structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 744, 618-629	5.3	43
54	Analysis of the duration of compliance between recidivism of drunk driving and reinstatement of license after suspension or revocation. <i>Accident Analysis and Prevention</i> , <b>2019</b> , 124, 120-126	6.1	1
53	Microstructure and mechanical characteristics of multi-layered materials composed of 316L stainless steel and ferritic steel produced by direct energy deposition. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 896-907	5.7	40
52	Multilevel model for ramp crash frequency that reflects heterogeneity among ramp types. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 311-319	1.9	3
51	Optimal Coordination Strategy for an Integrated Multimodal Transit Feeder Network Design Considering Multiple Objectives. <i>Sustainability</i> , <b>2018</b> , 10, 734	3.6	3
50	Neutron Diffraction Measurement of Residual Stress in High Melting Point Metals Processed by 3D Printing. <i>Journal of Welding and Joining</i> , <b>2018</b> , 36, 14-20	1.1	1
49	Hierarchical hub location problem for freight network design. <i>IET Intelligent Transport Systems</i> , <b>2018</b> , 12, 1062-1070	2.4	8
48	Bayesian Network for Freeway Traffic State Prediction. <i>Transportation Research Record</i> , <b>2018</b> , 2672, 124-135	1.7	6
47	Evaluating Time Trend Correction Approaches Associated with Empirical Bayes Before-after Study for Road Safety. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 4593-4601	1.9	1

46	Molecular dynamics study of fracture toughness and trans-intergranular transition in bi-crystalline graphene. <i>Computational Materials Science</i> , <b>2017</b> , 129, 323-331	3.2	20
45	Effect of Regional Characteristics on Injury Severity in Local Bus Crashes: Use of Hierarchical Ordered Model. <i>Transportation Research Record</i> , <b>2017</b> , 2647, 1-8	1.7	18
44	Hierarchical ordered model for injury severity of pedestrian crashes in South Korea. <i>Journal of Safety Research</i> , <b>2017</b> , 61, 33-40	4	44
43	Evaluation of the stress-strain relationship of constituent phases in AlSi10Mg alloy produced by selective laser melting using crystal plasticity FEM. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 687-697	5.7	54
42	Weld residual stresses in a thick plate considering back chipping: Neutron diffraction, contour method and finite element simulation study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 699, 62-70	5.3	39
41	Sustainability evaluation of rapid routes for buses with a network DEA model. <i>International Journal of Sustainable Transportation</i> , <b>2017</b> , 11, 659-669	3.6	11
40	Mesoscopic coupled modeling of texture formation during recrystallization considering stored energy decomposition. <i>Computational Materials Science</i> , <b>2017</b> , 129, 55-65	3.2	16
39	Cross-classified multilevel models for severity of commercial motor vehicle crashes considering heterogeneity among companies and regions. <i>Accident Analysis and Prevention</i> , <b>2017</b> , 106, 305-314	6.1	25
38	Effect of microstructural factors on void formation by ferrite/martensite interface decohesion in DP980 steel under uniaxial tension. <i>International Journal of Plasticity</i> , <b>2017</b> , 94, 3-23	7.6	20
37	Stress partitioning behavior of an AlSi10Mg alloy produced by selective laser melting during tensile deformation using in situ neutron diffraction. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 281-286	5.7	46
36	Integrated decision model of mode, line, and frequency for a new transit line to improve the performance of the transportation network. <i>KSCE Journal of Civil Engineering</i> , <b>2016</b> , 20, 393-400	1.9	4
35	An Improved Teaching-Learning Based Optimization for Optimization of Flatness of a Strip During a Coiling Process. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 12-23	0.9	1
34	Dynamically Determining the Toll Plaza Capacity by Monitoring Approaching Traffic Conditions in Real-Time. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 87	2.6	7
33	Valuation of Travel Time Reliability Accommodating Heterogeneity of Route Choice Behaviors. <i>Transportation Research Record</i> , <b>2016</b> , 2565, 86-93	1.7	6
32	Empirical evaluation on the efficiency of the trucking industry in Korea. <i>KSCE Journal of Civil Engineering</i> , <b>2015</b> , 19, 1088-1096	1.9	4
31	Optimization of flatness of strip during coiling process based on evolutionary algorithms. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2015</b> , 16, 1493-1499	1.7	8
30	Efficient hybrid evolutionary algorithm for optimization of a strip coiling process. <i>Engineering Optimization</i> , <b>2015</b> , 47, 521-532	2	11
29	Three-dimensional crystal plasticity finite element analysis of microstructure and texture evolution during channel die compression of IF steel. <i>Computational Materials Science</i> , <b>2015</b> , 100, 52-60	3.2	23

28	Numerical study of the effect of prior deformation history on texture evolution during equal channel angular pressing. <i>Computational Materials Science</i> , <b>2014</b> , 81, 68-78	3.2	8
27	Dual-Route Distribution Strategy with Supply Chain Disruption. <i>Transportation Research Record</i> , <b>2014</b> , 2466, 12-21	1.7	
26	A BI-LEVEL FRAMEWORK FOR PRICING OF HIGH-OCCUPANCY TOLL LANES. <i>Transport</i> , <b>2014</b> , 29, 317-325	1.4	8
25	Prediction of the effects of hardening and texture heterogeneities by finite element analysis based on the Taylor model. <i>International Journal of Plasticity</i> , <b>2013</b> , 42, 120-140	7.6	33
24	Efficiency analysis on bus companies in Seoul city using a network DEA model. <i>KSCE Journal of Civil Engineering</i> , <b>2013</b> , 17, 1480-1488	1.9	22
23	Adaptive characterization of recrystallization kinetics in IF steel by electron backscatter diffraction. <i>Journal of Microscopy</i> , <b>2013</b> , 252, 204-16	1.9	12
22	Safety Performance Functions Reflecting Categorical Impact of Exposure Variables for Freeways. <i>Transportation Research Record</i> , <b>2013</b> , 2398, 67-74	1.7	7
21	Crystal Plasticity Finite Element Analysis of Texture Evolution during Rolling of fcc Polycrystalline Metal. <i>Materials Transactions</i> , <b>2013</b> , 54, 769-775	1.3	7
20	Mesosopic Modeling of Primary Recrystallization of AA1050 with Curvature-Driven Interface Migration Effect. <i>Materials Transactions</i> , <b>2013</b> , 54, 81-89	1.3	11
19	Analysis of injury severity in traffic crashes: A case study of Korean expressways. <i>KSCE Journal of Civil Engineering</i> , <b>2012</b> , 16, 1280-1288	1.9	24
18	Effects of spatial aggregation level on an urban transportation planning model. <i>KSCE Journal of Civil Engineering</i> , <b>2012</b> , 16, 835-844	1.9	11
17	Travel Time Prediction Using k Nearest Neighbor Method with Combined Data from Vehicle Detector System and Automatic Toll Collection System. <i>Transportation Research Record</i> , <b>2011</b> , 2256, 51-59	1.7	40
16	Analysis of the efficiency of Seoul Arterial Bus routes and its determinant factors. <i>KSCE Journal of Civil Engineering</i> , <b>2011</b> , 15, 1115-1123	1.9	13
15	Geocoding vehicle collisions on Korean expressways based on postmile referencing. <i>KSCE Journal of Civil Engineering</i> , <b>2011</b> , 15, 1435-1441	1.9	8
14	A dissimilar alternative paths-search algorithm for navigation services: A heuristic approach. <i>KSCE Journal of Civil Engineering</i> , <b>2010</b> , 14, 41-49	1.9	7
13	Frequency design in urban transit networks with variable demand: Model and algorithm. <i>KSCE Journal of Civil Engineering</i> , <b>2010</b> , 14, 403-411	1.9	8
12	Modeling and Simulation of Tandem Tollbooth Operations with Max-Algebra Approach. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 138-150	0.9	4
11	Spatiotemporal Demand Prediction Model for E-Scooter Sharing Services with Latent Feature and Deep Learning. <i>Transportation Research Record</i> , 036119812110038	1.7	12

10	Designing Multiple Short-Turn Routes to Mitigate the Crowding on a Bus Network. <i>Transportation Research Record</i> ,036119812110038	1.7	1
9	Reliability-Based Assessment of Potential Risk for Lane-Changing Maneuvers. <i>Transportation Research Record</i> ,036119812110108	1.7	2
8	Enhancing the Accuracy of Peak Hourly Demand in Bike-Sharing Systems using a Graph Convolutional Network with Public Transit Usage Data. <i>Transportation Research Record</i> ,036119812110120	1.7	2
7	Estimating Express Train Preference of Urban Railway Passengers Based on Extreme Gradient Boosting (XGBoost) using Smart Card Data. <i>Transportation Research Record</i> ,036119812110133	1.7	6
6	Multi-Objective Optimization for Skip-Stop Strategy Based on Smartcard Data Considering Total Travel Time and Equity. <i>Transportation Research Record</i> ,036119812110130	1.7	1
5	Design of Zonal Express Bus Services to Reduce User Travel Time and Transfers Considering Demand Diversion. <i>Transportation Research Record</i> ,036119812110184	1.7	1
4	Efficiency Comparison of Public Bike-Sharing Repositioning Strategies Based on Predicted Demand Patterns. <i>Transportation Research Record</i> ,036119812110168	1.7	1
3	Recurrent Neural Network for Estimating Speed Using Probe Vehicle Data in an Urban Area. <i>Transportation Research Record</i> ,036119812110363	1.7	0
2	Development of Estimating Methodology for Transit Accessibility Using Smart Card Data. <i>Transportation Research Record</i> ,036119812110275	1.7	0
1	Assessing and Predicting Mobility Improvement of Integrating Bike-Sharing into Multimodal Public Transport Systems. <i>Transportation Research Record</i> ,036119812110450	1.7	0