

Huachun Tan

List of Publications by Year in descending order

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51
papers

2,128
citations

394421

19
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

1881
citing authors

#	ARTICLE	IF	CITATIONS
1	Laplacian integration of graph convolutional network with tensor completion for traffic prediction with missing data in inter-city highway network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 586, 126474.	2.6	7
2	Understanding and Modeling Urban Mobility Dynamics via Disentangled Representation Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 2010-2020.	8.0	7
3	A Deep Learning Based Traffic State Estimation Method for Mixed Traffic Flow Environment. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-12.	1.7	4
4	Nonrecurrent traffic congestion detection with a coupled scalable Bayesian robust tensor factorization model. <i>Neurocomputing</i> , 2021, 430, 138-149.	5.9	10
5	Rail transit OD matrix completion via manifold regularized tensor factorisation. <i>IET Intelligent Transport Systems</i> , 2021, 15, 1304-1317.	3.0	1
6	Differential variable speed limits control for freeway recurrent bottlenecks via deep actor-critic algorithm. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102649.	7.6	57
7	Estimation of missing values in heterogeneous traffic data: Application of multimodal deep learning model. <i>Knowledge-Based Systems</i> , 2020, 194, 105592.	7.1	59
8	Traffic Flow Prediction With Missing Data Imputed by Tensor Completion Methods. <i>IEEE Access</i> , 2020, 8, 63188-63201.	4.2	22
9	A Fused CP Factorization Method for Incomplete Tensors. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 751-764.	11.3	39
10	Memory, attention and prediction: a deep learning architecture for car-following. <i>Transportmetrica B</i> , 2019, 7, 1553-1571.	2.3	12
11	Deep reinforcement learning of energy management with continuous control strategy and traffic information for a series-parallel plug-in hybrid electric bus. <i>Applied Energy</i> , 2019, 247, 454-466.	10.1	217
12	A hybrid deep learning based traffic flow prediction method and its understanding. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 90, 166-180.	7.6	499
13	A Deep Architecture Combining CNNs and GRBMS for Traffic Speed Prediction. , 2018, , .		0
14	Robust tensor decomposition based on Cauchy distribution and its applications. <i>Neurocomputing</i> , 2017, 223, 107-117.	5.9	34
15	High-Dimension Traffic Data Imputation Based on a Square Norm. , 2016, , .		0
16	A Comparison of Traffic Flow Prediction Methods Based on DBN. , 2016, , .		30
17	Research on Pedestrian Detection Method Based on the Intersection with Fixed Camera. , 2016, , .		1
18	Short-Term Traffic Prediction Based on Dynamic Tensor Completion. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 2123-2133.	8.0	166

#	ARTICLE	IF	CITATIONS
19	Tensor based missing traffic data completion with spatial-temporal correlation. Physica A: Statistical Mechanics and Its Applications, 2016, 446, 54-63.	2.6	105
20	Estimating Missing Traffic Volume Using Low Multilinear Rank Tensor Completion. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 152-161.	4.2	21
21	Using Tensor Completion Method to Achieving Better Coverage of Traffic State Estimation from Sparse Floating Car Data. PLoS ONE, 2016, 11, e0157420.	2.5	13
22	Improved river flow and random sample consensus for curve lane detection. Advances in Mechanical Engineering, 2015, 7, 168781401559386.	1.6	18
23	Traffic Speed Data Imputation Method Based on Tensor Completion. Computational Intelligence and Neuroscience, 2015, 2015, 1-9.	1.7	30
24	Freeway Short-Term Travel Time Prediction Based on Dynamic Tensor Completion. Transportation Research Record, 2015, 2489, 97-104.	1.9	9
25	Tensor Recovery Based Non-Recurrent Traffic Congestion Recognition. , 2015, , .		4
26	Short-Term Traffic Flow Prediction Based on Multilinear Analysis and k-Nearest Neighbor Regression. , 2015, , .		19
27	Mixture Augmented Lagrange Multiplier Method for Tensor Recovery and Its Applications. Discrete Dynamics in Nature and Society, 2014, 2014, 1-9.	0.9	3
28	Robust Missing Traffic Flow Imputation Considering Nonnegativity and Road Capacity. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	30
29	A novel curve lane detection based on Improved River Flow and RANSA. , 2014, , .		16
30	Tensor completion via a multi-linear low-n-rank factorization model. Neurocomputing, 2014, 133, 161-169.	5.9	169
31	A Tensor Completion-Based Traffic State Estimation Model. , 2014, , .		5
32	Missing Data Imputation Considering Multi-Mode Variations. , 2014, , .		1
33	Low Multilinear Rank Approximation of Tensors and Application in Missing Traffic Data. Advances in Mechanical Engineering, 2014, 6, 157597.	1.6	22
34	Correlation Analysis for Tensor-based Traffic Data Imputation Method. Procedia, Social and Behavioral Sciences, 2013, 96, 2611-2620.	0.5	13
35	Low-n-rank tensor recovery based on multi-linear augmented Lagrange multiplier method. Neurocomputing, 2013, 119, 144-152.	5.9	36
36	A New Traffic Prediction Method based on Dynamic Tensor Completion. Procedia, Social and Behavioral Sciences, 2013, 96, 2431-2442.	0.5	27

#	ARTICLE	IF	CITATIONS
37	A tensor-based method for missing traffic data completion. Transportation Research Part C: Emerging Technologies, 2013, 28, 15-27.	7.6	290
38	Traffic Volume Data Outlier Recovery via Tensor Model. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	37
39	Pedestrian Walking Behavior Revealed through a Random Walk Model. Discrete Dynamics in Nature and Society, 2012, 2012, 1-13.	0.9	1
40	Metropolis Parking Problems and Management Planning Solutions for Traffic Operation Effectiveness. Mathematical Problems in Engineering, 2012, 2012, 1-6.	1.1	8
41	A comparative analysis of pixel-level image fusion based on sparse representation. , 2012, , .		0
42	Tensor Recovery via Multi-linear Augmented Lagrange Multiplier Method. , 2011, , .		9
43	Cellular automaton simulation of counter flow with paired pedestrians. International Journal of Computational Intelligence Systems, 2011, 4, 1415-1421.	2.7	1
44	Pixel saliency metric based pixel-level medical image fusion. , 2011, , .		2
45	Edge Eigenface Weighted Hausdorff Distance for Face Recognition. International Journal of Computational Intelligence Systems, 2011, 4, 1422-1429.	2.7	2
46	A Framework for Function Allocations in Intelligent Driver Interface Design for Comfort and Safety. International Journal of Computational Intelligence Systems, 2010, 3, 531-541.	2.7	32
47	Vehicle Speed Measurement for Accident Scene Investigation. , 2010, , .		9
48	Modelling and Simulation for Safe Following Distance Based on Vehicle Braking Process. , 2010, , .		13
49	Traffic pattern forecasting using time series analysis between spatially adjacent sensor clusters. , 2009, , .		1
50	A Novel Method for License Plate Localization. , 2007, , .		10
51	Computing Eigenface from Edge Images for Face Recognition Based on Hausdorff Distance. , 2007, , .		7