Huachun Tan

List of Publications by Year
in descending order

		394421	377865
51 papers	**2,128** citations	**19** h-index	**34** g-index
51 all docs	**51** docs citations	**51** times ranked	**1881** citing authors

#	Article	IF	Citations
1	A hybrid deep learning based traffic flow prediction method and its understanding. Transportation Research Part C: Emerging Technologies, 2018, 90, 166-180.	7.6	499
2	A tensor-based method for missing traffic data completion. Transportation Research Part C: Emerging Technologies, 2013, 28, 15-27.	7.6	290
3	Deep reinforcement learning of energy management with continuous control strategy and traffic information for a series-parallel plug-in hybrid electric bus. Applied Energy, 2019, 247, 454-466.	10.1	217
4	Tensor completion via a multi-linear low-n-rank factorization model. Neurocomputing, 2014, 133, 161-169.	5.9	169
5	Short-Term Traffic Prediction Based on Dynamic Tensor Completion. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2123-2133.	8.0	166
6	Tensor based missing traffic data completion with spatial–temporal correlation. Physica A: Statistical Mechanics and Its Applications, 2016, 446, 54-63.	2.6	105
7	Estimation of missing values in heterogeneous traffic data: Application of multimodal deep learning model. Knowledge-Based Systems, 2020, 194, 105592.	7.1	59
8	Differential variable speed limits control for freeway recurrent bottlenecks via deep actor-critic algorithm. Transportation Research Part C: Emerging Technologies, 2020, 117, 102649.	7.6	57
9	A Fused CP Factorization Method for Incomplete Tensors. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 751-764.	11.3	39
10	Traffic Volume Data Outlier Recovery via Tensor Model. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	37
11	Low-n-rank tensor recovery based on multi-linear augmented Lagrange multiplier method. Neurocomputing, 2013, 119, 144-152.	5.9	36
12	Robust tensor decomposition based on Cauchy distribution and its applications. Neurocomputing, 2017, 223, 107-117.	5.9	34
13	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
14	Robust Missing Traffic Flow Imputation Considering Nonnegativity and Road Capacity. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	30
15	Traffic Speed Data Imputation Method Based on Tensor Completion. Computational Intelligence and Neuroscience, 2015, 2015, 1-9.	1.7	30
16	A Comparison of Traffic Flow Prediction Methods Based on DBN. , 2016, , .		30
17	A New Traffic Prediction Method based on Dynamic Tensor Completion. Procedia, Social and Behavioral Sciences, 2013, 96, 2431-2442.	0.5	27
18	Low Multilinear Rank Approximation of Tensors and Application in Missing Traffic Data. Advances in Mechanical Engineering, 2014, 6, 157597.	1.6	22

#	ARTICLE	IF	CITATIONS
19	Traffic Flow Prediction With Missing Data Imputed by Tensor Completion Methods. IEEE Access, 2020, 8, 63188-63201.	4.2	22
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	Short-Term Traffic Flow Prediction Based on Multilinear Analysis and k-Nearest Neighbor Regression. , 2015, , .		19
22	Improved river flow and random sample consensus for curve lane detection. Advances in Mechanical Engineering, 2015, 7, 168781401559386.	1.6	18
23	A novel curve lane detection based on Improved River Flow and RANSA. , 2014, , .		16
24	Modelling and Simulation for Safe Following Distance Based on Vehicle Braking Process. , 2010, , .		13
25	Correlation Analysis for Tensor-based Traffic Data Imputation Method. Procedia, Social and Behavioral Sciences, 2013, 96, 2611-2620.	0.5	13
26	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
27	Memory, attention and prediction: a deep learning architecture for car-following. Transportmetrica B, 2019, 7, 1553-1571.	2.3	12
28	A Novel Method for License Plate Localization. , 2007, , .		10
29	Nonrecurrent traffic congestion detection with a coupled scalable Bayesian robust tensor factorization model. Neurocomputing, 2021, 430, 138-149.	5.9	10
30	Vehicle Speed Measurement for Accident Scene Investigation. , 2010, , .		9
31	Tensor Recovery via Multi-linear Augmented Lagrange Multiplier Method. , 2011, , .		9
32	Freeway Short-Term Travel Time Prediction Based on Dynamic Tensor Completion. Transportation Research Record, 2015, 2489, 97-104.	1.9	9
33	Metropolis Parking Problems and Management Planning Solutions for Traffic Operation Effectiveness. Mathematical Problems in Engineering, 2012, 2012, 1-6.	1.1	8
34	Computing Eigenface from Edge Images for Face Recognition Based on Hausdorff Distance. , 2007, , .		7
35	Laplacian integration of graph convolutional network with tensor completion for traffic prediction with missing data in inter-city highway network. Physica A: Statistical Mechanics and Its Applications, 2022, 586, 126474.	2.6	7
36	Understanding and Modeling Urban Mobility Dynamics via Disentangled Representation Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2010-2020.	8.0	7

#	Article	IF	Citations
37	A Tensor Completion-Based Traffic State Estimation Model. , 2014, , .		5
38	Tensor Recovery Based Non-Recurrent Traffic Congestion Recognition. , 2015, , .		4
39	A Deep Learning Based Traffic State Estimation Method for Mixed Traffic Flow Environment. Journal of Advanced Transportation, 2022, 2022, 1-12.	1.7	4
40	Mixture Augmented Lagrange Multiplier Method for Tensor Recovery and Its Applications. Discrete Dynamics in Nature and Society, 2014, 2014, 1-9.	0.9	3
41	Pixel saliency metric based pixel-level medical image fusion. , 2011, , .		2
42	Edge Eigenface Weighted Hausdorff Distance for Face Recognition. International Journal of Computational Intelligence Systems, 2011, 4, 1422-1429.	2.7	2
43	Traffic pattern forecasting using time series analysis between spatially adjacent sensor clusters. , 2009, , .		1
44	Cellular automaton simulation of counter flow with paired pedestrians. International Journal of Computational Intelligence Systems, 2011, 4, 1415-1421.	2.7	1
45	Pedestrian Walking Behavior Revealed through a Random Walk Model. Discrete Dynamics in Nature and Society, 2012, 2012, 1-13.	0.9	1
46	Missing Data Imputation Considering Multi-Mode Variations. , 2014, , .		1
47	Research on Pedestrian Detection Method Based on the Intersection with Fixed Camera. , 2016, , .		1
48	Rail transit ODâ€matrix completion via manifold regularized tensor factorisation. IET Intelligent Transport Systems, 2021, 15, 1304-1317.	3.0	1
49	A comparative analysis of pixel-level image fusion based on sparse representation. , 2012, , .		0
50	High-Dimension Traffic Data Imputation Based on a Square Norm. , 2016, , .		0
51	A Deep Architecture Combining CNNS and GRBMS for Traffic Speed Prediction. , 2018, , .		0