Siheng Chen

List of Publications by Year
in descending order

32 papers	2,493 citations	840585 11 h-index	940416 16 g-index
33 all docs	33 docs citations	33 times ranked	1444 citing authors

#	Article	IF	Citations
1	Actional-Structural Graph Convolutional Networks for Skeleton-Based Action Recognition. , 2019, , .		639
2	Discrete Signal Processing on Graphs: Sampling Theory. IEEE Transactions on Signal Processing, 2015, 63, 6510-6523.	3.2	534
3	Signal Recovery on Graphs: Variation Minimization. IEEE Transactions on Signal Processing, 2015, 63, 4609-4624.	3.2	185
4	Dynamic Multiscale Graph Neural Networks for 3D Skeleton Based Human Motion Prediction. , 2020, , .		168
5	Semi-Supervised Multiresolution Classification Using Adaptive Graph Filtering With Application to Indirect Bridge Structural Health Monitoring. IEEE Transactions on Signal Processing, 2014, 62, 2879-2893.	3.2	144
6	Fast Resampling of Three-Dimensional Point Clouds via Graphs. IEEE Transactions on Signal Processing, 2018, 66, 666-681.	3.2	104
7	3D Point Cloud Processing and Learning for Autonomous Driving: Impacting Map Creation, Localization, and Perception. IEEE Signal Processing Magazine, 2021, 38, 68-86.	4.6	101
8	Signal denoising on graphs via graph filtering. , 2014, , .		99
9	Symbiotic Graph Neural Networks for 3D Skeleton-Based Human Action Recognition and Motion Prediction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3316-3333.	9.7	83
10	Signal Recovery on Graphs: Fundamental Limits of Sampling Strategies. IEEE Transactions on Signal and Information Processing Over Networks, 2016, , 1-1.	1.6	61
11	Collaborative Motion Prediction via Neural Motion Message Passing. , 2020, , .		45
12	Deep Unsupervised Learning of 3D Point Clouds via Graph Topology Inference and Filtering. IEEE Transactions on Image Processing, 2020, 29, 3183-3198.	6.0	36
13	Multiscale Spatio-Temporal Graph Neural Networks for 3D Skeleton-Based Motion Prediction. IEEE Transactions on Image Processing, 2021, 30, 7760-7775.	6.0	35
14	3D Point Cloud Denoising via Deep Neural Network Based Local Surface Estimation. , 2019, , .		32
15	Graph Unrolling Networks: Interpretable Neural Networks for Graph Signal Denoising. IEEE Transactions on Signal Processing, 2021, 69, 3699-3713.	3.2	31
16	Learning on Attribute-Missing Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 740-757.	9.7	26
17	Online Multi-Agent Forecasting With Interpretable Collaborative Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-15.	7.2	24
18	Representations of piecewise smooth signals on graphs. , 2016, , .		22

#	ARTICLE	IF	CITATIONS
19	PCT: Large-Scale 3d Point Cloud Representations Via Graph Inception Networks with Applications to Autonomous Driving. , 2019, , .		22
20	Signal recovery on graphs: Random versus experimentally designed sampling. , 2015, , .		20
21	WEIGHTED MULTI-PROJECTION: 3D POINT CLOUD DENOISING WITH TANGENT PLANES. , 2018, , .		19
22	A Backdoor Attack against 3D Point Cloud Classifiers. , 2021, , .		19
23	Contour-enhanced resampling of 3D point clouds via graphs. , 2017, , .		14
24	Detecting Localized Categorical Attributes on Graphs. IEEE Transactions on Signal Processing, 2017, 65, 2725-2740.	3.2	6
25	Dynamic responses, GPS positions and environmental conditions of two light rail vehicles in Pittsburgh. Scientific Data, 2019, 6, 146.	2.4	5
26	Efficient and Stable Graph Scattering Transforms via Pruning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1232-1246.	9.7	4
27	Wireless 3D Point Cloud Delivery Using Deep Graph Neural Networks. , 2021, , .		4
28	Fast Temporal Path Localization on Graphs via Multiscale Viterbi Decoding. IEEE Transactions on Signal Processing, 2018, 66, 5588-5603.	3.2	3
29	Detecting Backdoor Attacks against Point Cloud Classifiers. , 2022, , .		3
30	Fast path localization on graphs via multiscale Viterbi decoding. , 2017, , .		2
31	Graph topology recovery for regular and irregular graphs. , 2017, , .		2
32	Spatio-Temporal Graph Complementary Scattering Networks. , 2022, , .		1