Yi Shang

List of Publications by Year
in descending order

67 papers	1,279 citations	933447 10 h-index	752698 20 g-index
67 all docs	67 docs citations	67 times ranked	1245 citing authors

#	Article	IF	Citations
1	Transformer for Tree Counting in Aerial Images. Remote Sensing, 2022, 14, 476.	4.0	11
2	MUfoldQA_G: High-accuracy protein model QA via retraining and transformation. Computational and Structural Biotechnology Journal, 2021, 19, 6282-6290.	4.1	3
3	MUFold-SSW: a new web server for predicting protein secondary structures, torsion angles and turns. Bioinformatics, 2020, 36, 1293-1295.	4.1	14
4	A deep dense inception network for protein beta-turn prediction. Proteins: Structure, Function and Bioinformatics, 2020, 88, 143-151.	2.6	9
5	Adaptive Saliency Biased Loss for Object Detection in Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7154-7165.	6.3	18
6	PSICA: a fast and accurate web service for protein model quality analysis. Nucleic Acids Research, 2019, 47, W443-W450.	14.5	12
7	Short Paper: TigerAware Assistant: A New Serverless Implementation of Conversational Agents for Customizable Surveys on Smart Devices. , 2019, , .		2
8	A New Approach Of Applying Deep Learning To Protein Model Quality Assessment. , 2019, , .		3
9	Two New Heuristic Methods for Protein Model Quality Assessment. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 17, 1-1.	3.0	5
10	Prediction of Protein Backbone Torsion Angles Using Deep Residual Inception Neural Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1020-1028.	3.0	32
11	New Deep Learning Methods for Protein Loop Modeling. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 596-606.	3.0	18
12	MUFOLD-SS: New deep inception-inside-inception networks for protein secondary structure prediction. Proteins: Structure, Function and Bioinformatics, 2018, 86, 592-598.	2.6	134
13	Improving Protein Gamma-Turn Prediction Using Inception Capsule Networks. Scientific Reports, 2018, 8, 15741.	3.3	21
14	The Cell Research Trends of Asthma: A Stem Frequency Analysis of the Literature. Journal of Healthcare Engineering, 2018, 2018, 1-10.	1.9	1
15	Using deep learning for alcohol consumption recognition. , 2017, , .		11
16	Deep Networks and Continuous Distributed Representation of Protein Sequences for Protein Quality Assessment. , 2017, , .		6
17	New Deep Neural Networks for Protein Model Evaluation. , 2017, , .		3
18	Automatic Fish Classification System Using Deep Learning. , 2017, , .		31

#	Article	IF	Citations
19	Protein Loop Modeling Using Deep Generative Adversarial Network. , 2017, , .		16
20	ADA - Automatic Detection of Alcohol Usage for Mobile Ambulatory Assessment. , 2016, , .		7
21	Mobile Data Collection and Analysis in Conservation. , 2016, , .		0
22	EvoAE -- A New Evolutionary Method for Training Autoencoders for Deep Learning Networks. , 2015, , .		21
23	mAAS -- A Mobile Ambulatory Assessment System for Alcohol Craving Studies. , 2015, , .		9
24	DL-PRO: A novel deep learning method for protein model quality assessment. , 2014, 2014, 2071-2078.		38
25	A new active labeling method for deep learning. , 2014, , .		123
26	Wake IQ: Using a smartphone to reduce sleep inertia. , 2013, , .		2
27	SDNAN: Software-defined networking in ad hoc networks of smartphones. , 2013, , .		20
28	Towards a system for body-area sensing and detection of alcohol craving and mood dysregulation. , 2013, , .		6
29	NEW MDS AND CLUSTERING BASED ALGORITHMS FOR PROTEIN MODEL QUALITY ASSESSMENT AND SELECTION. International Journal on Artificial Intelligence Tools, 2013, 22, 1360006.	1.0	3
30	Modeling Physiological Data with Deep Belief Networks. International Journal of Information and Education Technology, 2013, 3, 505-511.	1.2	46
31	Nest: Networked smartphones for target localization. , 2012, , .		7
32	Video Based Real-World Remote Target Tracking on Smartphones. , 2012, , .		2
33	Protein structural model selection based on protein-dependent scoring function. Statistics and Its Interface, 2012, 5, 109-115.	0.3	7
34	A Hybrid Consensus and Clustering Method for Protein Structure Selection. , 2011, , .		0
35	A Mobile Automated Skin Lesion Classification System. , 2011, , .		83
36	A multilayer evaluation approach for protein structure prediction and model quality assessment. Proteins: Structure, Function and Bioinformatics, 2011, 79, 172-184.	2.6	9

#	Article	IF	Citations
37	Comparison of Probabilistic Chain Graphical Model-Based and Gaussian Process-Based Observation Selections for Wireless Sensor Scheduling. International Journal of Distributed Sensor Networks, 2011, 7, 928958.	2.2	0
38	MUFOLD: A new solution for protein 3D structure prediction. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1137-1152.	2.6	67
39	Distributed Faulty Sensor Detection. , 2009, , .		7
40	Statistical methods to estimate vehicle count using traffic cameras. Multidimensional Systems and Signal Processing, 2009, 20, 121-133.	2.6	11
41	Wireless sensor networks in intelligent transportation systems. Wireless Communications and Mobile Computing, 2009, 9, 287-302.	1.2	154
42	Distributed distribution-based optimization for sensor fault detection. , 2009, , .		0
43	Model-Based Traffic Prediction Using Sensor Networks. , 2008, , .		6
44	Cobra: Correlation-Based Content Authentication in Wireless Sensor Networks. , 2008, , .		2
45	A new clustering-based method for protein structure selection. , 2008, , .		4
46	An Efficient Parallel Algorithm for the Multiple Longest Common Subsequence (MLCS) Problem. , 2008, , .		17
47	Map-based Adaptive Positioning in Wireless Sensor Networks. , 2007, , .		2
48	Adaptive Traffic Light Control with Wireless Sensor Networks. , 2007, , .		87
49	Optimal Access Point Placement for Target Localization Along Trails. , 2007, , .		0
50	An Efficient Algorithm for Constructing Connected Dominating Set in Ad Hoc Networks. , 2007, , .		1
51	Minimizing Location Uncertainty in Deployment of Access Points. , 2007, , .		0
52	Analysis of Energy Consumption in Clustered Wireless Sensor Networks. , 2007, , .		31
53	A Fast Algorithm for Low-Resolution Protein Structure Prediction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
54	Student modeling with timed assessment information. , 0, , .		2

#	Article	IF	Citations
55	A new density control algorithm for WSNs [wireless sensor networks]. , 0, , .		1
56	Delay-sensitive delivery of scalable coded images over peer-to-peer networks. , 0, , .		0
57	A partial-range-aware localization algorithm for ad-hoc wireless sensor networks. , 0, , .		20
58	Performance study of localization methods for ad-hoc sensor networks. , 0, , .		43
59	A map-growing localization algorithm for ad-hoc wireless sensor networks. , 0, , .		2
60	A Sorted RSSI Quantization Based Algorithm for Sensor Network Localization. , 0, , .		38
61	Coverage and Energy Tradeoff in Density Control on Sensor Networks. , 0, , .		11
62	Variants of Multidimensional Scaling for Node Localization. , 0, , .		9
63	Network-aware positioning in sensor networks. , 0, , .		3
64	A Two-Level Strategy for Topology Control in Wireless Sensor Networks. , 0, , .		6
65	Cramer-Rao Bound Analysis of Quantized RSSI Based Localization in Wireless Sensor Networks. , 0, , .		17
66	Sensor Network Assisted Collaboration for Pursuit-Evasion Problem. , 0, , .		1
67	A New Hybrid Wireless Sensor Network Localization System. , 0, , .		3