Xiyang Liu

List of Publications by Year in descending order

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42 papers	1,150 citations	623574 14 h-index	677027 22 g-index
44 all docs	44 docs citations	44 times ranked	1177 citing authors

#	Article	IF	Citations
1	An artificial intelligence platform for the multihospital collaborative management of congenital cataracts. Nature Biomedical Engineering, 2017, 1, .	11.6	234
2	Exploring prognostic indicators in the pathological images of hepatocellular carcinoma based on deep learning. Gut, 2021, 70, 951-961.	6.1	93
3	Localization and diagnosis framework for pediatric cataracts based on slit-lamp images using deep features of a convolutional neural network. PLoS ONE, 2017, 12, e0168606.	1.1	72
4	Development and validation of deep learning algorithms for scoliosis screening using back images. Communications Biology, 2019, 2, 390.	2.0	72
5	Predicting gastric cancer outcome from resected lymph node histopathology images using deep learning. Nature Communications, 2021, 12, 1637.	5.8	65
6	YAGP: Yet Another Graphical Password Strategy. , 2008, , .		57
7	Research on the Security of Microsoftâ€™s Two-Layer Captcha. IEEE Transactions on Information Forensics and Security, 2017, 12, 1671-1685.	4.5	52
8	Dense anatomical annotation of slit-lamp images improves the performance of deep learning for the diagnosis of ophthalmic disorders. Nature Biomedical Engineering, 2020, 4, 767-777.	11.6	42
9	A New Graphical Password Scheme Resistant to Shoulder-Surfing. , 2010, , .		41
10	Comparative analysis of image classification methods for automatic diagnosis of ophthalmic images. Scientific Reports, 2017, 7, 41545.	1.6	41
11	An Interpretable and Expandable Deep Learning Diagnostic System for Multiple Ocular Diseases: Qualitative Study. Journal of Medical Internet Research, 2018, 20, e11144.	2.1	41
12	An Audio CAPTCHA to Distinguish Humans from Computers. , 2010, , .		36
13	Automatic diagnosis of imbalanced ophthalmic images using a cost-sensitive deep convolutional neural network. BioMedical Engineering OnLine, 2017, 16, 132.	1.3	36
14	A Novel Image Based CAPTCHA Using Jigsaw Puzzle. , 2010, , .		33
15	Prediction of postoperative complications of pediatric cataract patients using data mining. Journal of Translational Medicine, 2019, 17, 2.	1.8	33
16	Design and Analysis of a Graphical Password Scheme. , 2009, , .		29
17	Artificial intelligence manages congenital cataract with individualized prediction and telehealth computing. Npj Digital Medicine, 2020, 3, 112.	5.7	22
18	Against Spyware Using CAPTCHA in Graphical Password Scheme. , 2010, , .		20

#	Article	IF	Citations
19	Predicting the progression of ophthalmic disease based on slit-lamp images using a deep temporal sequence network. PLoS ONE, 2018, 13, e0201142.	1.1	18
20	A Novel Cued-recall Graphical Password Scheme. , 2011, , .		17
21	Robustness of textâ€based completely automated public turing test to tell computers and humans apart. IET Information Security, 2016, 10, 45-52.	1.1	17
22	Analysis and Evaluation of the ColorLogin Graphical Password Scheme. , 2009, , .		16
23	A human-in-the-loop deep learning paradigm for synergic visual evaluation in children. Neural Networks, 2020, 122, 163-173.	3.3	12
24	Artificial intelligence deciphers codes for color and odor perceptions based on large-scale chemoinformatic data. GigaScience, 2020, 9, .	3.3	11
25	Automatic classification of heterogeneous slit-illumination images using an ensemble of cost-sensitive convolutional neural networks. Annals of Translational Medicine, 2021, 9, 550-550.	0.7	8
26	Systemically modeling the relationship between climate change and wheat aphid abundance. Science of the Total Environment, 2019, 674, 392-400.	3.9	7
27	Infrared Small Target Detection with Total Variation and Reweighted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mi>â„“</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:m Regularization. Mathematical Problems in Engineering, 2020, 2020, 1-19.	0.6	6
28	Multiobjective Reliable Cloud Storage with Its Particle Swarm Optimization Algorithm. Mathematical Problems in Engineering, 2016, 2016, 1-14.	0.6	5
29	Evolutionary testing of unstructured programs in the presence of flag problems. , 2005, , .		2
30	Function Call Flow based Fitness Function Design in Evolutionary Testing. , 2007, , .		2
31	Cluster based architecture synthesis minimizing the resources under time constraint. , 2010, , .		2
32	MEEF: A Minimum-Elimination-Escape Function Method for Multimodal Optimization Problems. Mathematical Problems in Engineering, 2015, 2015, 1-16.	0.6	2
33	Function Call Flow based Fitness Function Design in Evolutionary Testing. Proceedings of the Asia Pacific Software Engineering Conference, 2007, , .	0.0	1
34	PORD: a Reversible Debugging Tool using Dynamic Binary Translation. , 2007, , .		1
35	DTAD: A Dynamic Taint Analysis Detector for Information Security. , 2008, , .		1
36	An Effective Reversible Debugger of Cross Platform Based on Virtualization. , 2009, , .		1

#	Article	IF	Citations
37	An Enhanced Domination Based Evolutionary Algorithm for Multi-objective Problems. , 2013, , .		1
38	A Minimum-Elimination-Escape Function Method for Multimodal Optimization Problems. , 2014, , .		1
39	DFTL: a Description Language for Transformation of Data Formats. Proceedings of the Asia Pacific Software Engineering Conference, 2007, , .	0.0	0
40	DFTL: a Description Language for Transformation of Data Formats. , 2007, , .		0
41	Towards a Reversible BPEL Debugger. , 2008, , .		0
42	Experimental Analysis on CTT-SP Algorithm for Intermediate Data Storage in Scientific Workflow Systems. , 2015, , .		0