Siham Tabik

List of Publications by Citations

61	2,374	17	48
papers	citations	h-index	g-index
67	3,912	5.1	5.7
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
61	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. *Information Fusion*, **2020**, 58, 82-115	16.7	1210
60	Deep learning in video multi-object tracking: A survey. *Neurocomputing*, **2020**, 381, 61-88	5.4	157
59	COVIDGR Dataset and COVID-SDNet Methodology for Predicting COVID-19 Based on Chest X-Ray Images. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 3595-3605	7.2	95
58	Deep-learning Versus OBIA for Scattered Shrub Detection with Google Earth Imagery: Ziziphus lotus as Case Study. *Remote Sensing*, **2017**, 9, 1220	5	82
57	Automatic handgun detection alarm in videos using deep learning. *Neurocomputing*, **2018**, 275, 66-72	5.4	75
56	Object Detection Binary Classifiers methodology based on deep learning to identify small objects handled similarly: Application in video surveillance. *Knowledge-Based Systems*, **2020**, 194, 105590	7.3	66
55	Detection of Fir Trees (Abies sibirica) Damaged by the Bark Beetle in Unmanned Aerial Vehicle Images with Deep Learning. *Remote Sensing*, **2019**, 11, 643	5	61
54	**2009**,		55
53	Evaluating the consistency of the 1982-1999 NDVI trends in the Iberian Peninsula across four time-series derived from the AVHRR sensor: LTDR, GIMMS, FASIR, and PAL-II. *Sensors*, **2010**, 10, 1291-314	2.8	55
52	Towards highly accurate coral texture images classification using deep convolutional neural networks and data augmentation. *Expert Systems With Applications*, **2019**, 118, 315-328	7.8	46
51	BreakHis based breast cancer automatic diagnosis using deep learning: Taxonomy, survey and insights. *Neurocomputing*, **2020**, 375, 9-24	5.4	45
50	Whale counting in satellite and aerial images with deep learning. *Scientific Reports*, **2019**, 9, 14259	4.9	43
49	A snapshot of image pre-processing for convolutional neural networks: case study of MNIST. *International Journal of Computational Intelligence Systems*, **2017**, 10, 555	3.4	32
48	Simultaneous computation of total viewshed on large high resolution grids. *International Journal of Geographical Information Science*, **2013**, 27, 804-814	4.1	31
47	Brightness guided preprocessing for automatic cold steel weapon detection in surveillance videos with deep learning. *Neurocomputing*, **2019**, 330, 151-161	5.4	31
46	Olive Tree Biovolume from UAV Multi-Resolution Image Segmentation with Mask R-CNN. *Sensors*, **2021**, 21,	3.8	21
45	A binocular image fusion approach for minimizing false positives in handgun detection with deep learning. *Information Fusion*, **2019**, 49, 271-280	16.7	17

44	MNIST-NET10: A heterogeneous deep networks fusion based on the degree of certainty to reach 0.1% error rate. Ensembles overview and proposal. *Information Fusion*, **2020**, 62, 73-80	16.7	15
43	Fast clear-sky solar irradiation computation for very large digital elevation models. *Computer Physics Communications*, **2008**, 178, 800-808	4.2	14
42	Performance evaluation of kernel fusion BLAS routines on the GPU: iterative solvers as case study. *Journal of Supercomputing*, **2014**, 70, 577-587	2.5	12
41	Load balancing using work-stealing for pipeline parallelism in emerging applications **2009**,		12
40	High-performance three-horizon composition algorithm for large-scale terrains. *International Journal of Geographical Information Science*, **2011**, 25, 541-555	4.1	12
39	Revisiting crowd behaviour analysis through deep learning: Taxonomy, anomaly detection, crowd emotions, datasets, opportunities and prospects. *Information Fusion*, **2020**, 64, 318-335	16.7	12
38	A first study exploring the performance of the state-of-the art CNN model in the problem of breast cancer **2018**,		11
37	Mask R-CNN and OBIA Fusion Improves the Segmentation of Scattered Vegetation in Very High-Resolution Optical Sensors. *Sensors*, **2021**, 21,	3.8	11
36	Tree Cover Estimation in Global Drylands from Space Using Deep Learning. *Remote Sensing*, **2020**, 12, 343	5	10
35	High performance noise reduction for biomedical multidimensional data **2007**, 17, 724-736		10
34	A Job Scheduling Approach for Multi-core Clusters Based on Virtual Malleability. *Lecture Notes in Computer Science*, **2012**, 191-203	0.9	10
33	Coral species identification with texture or structure images using a two-level classifier based on Convolutional Neural Networks. *Knowledge-Based Systems*, **2019**, 184, 104891	7.3	9
32	Siting Multiple Observers for Maximum Coverage: An Accurate Approach. *Procedia Computer Science*, **2015**, 51, 356-365	1.6	9
31	Automatic whale counting in satellite images with deep learning		9
30	FuCiTNet: Improving the generalization of deep learning networks by the fusion of learned class-inherent transformations. *Information Fusion*, **2020**, 63, 188-195	16.7	9
29	MonuMAI: Dataset, deep learning pipeline and citizen science based app for monumental heritage taxonomy and classification. *Neurocomputing*, **2021**, 420, 266-280	5.4	8
28	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2015**, 8, 304-310	4.7	7
27	Total 3D-viewshed Map: Quantifying the Visible Volume in Digital Elevation Models. *Transactions in GIS*, **2017**, 21, 591-607	2.1	7

26	A Fast GIS-tool to Compute the Maximum Solar Energy on Very Large Terrains. *Procedia Computer Science*, **2012**, 9, 364-372	1.6	7
25	Deep recurrent neural network for geographical entities disambiguation on social media data. *Knowledge-Based Systems*, **2019**, 173, 117-127	7.3	6
24	Optimal tilt and orientation maps: a multi-algorithm approach for heterogeneous multicore-GPU systems. *Journal of Supercomputing*, **2013**, 66, 135-147	2.5	6
23	Asynchronous Processing for Latent Fingerprint Identification on Heterogeneous CPU-GPU Systems. *IEEE Access*, **2020**, 8, 124236-124253	3.5	6
22	Lights and shadows in Evolutionary Deep Learning: Taxonomy, critical methodological analysis, cases of study, learned lessons, recommendations and challenges. *Information Fusion*, **2021**, 67, 161-194	16.7	6
21	Demystifying the 16 ⨯16 thread-block for stencils on the GPU. *Concurrency Computation Practice and Experience*, **2015**, 27, 5557-5573	1.4	4
20	EXplainable Neural-Symbolic Learning (X-NeSyL) methodology to fuse deep learning representations with expert knowledge graphs: The MonuMAI cultural heritage use case. *Information Fusion*, **2022**, 79, 58-83	16.7	4
19	A tuning approach for iterative multiple 3d stencil pipeline on GPUs: Anisotropic Nonlinear Diffusion algorithm as case study. *Journal of Supercomputing*, **2018**, 74, 1580-1608	2.5	3
18	Anisotropic nonlinear diffusion for filtering 3D images on GPUs **2014**,		2
17	VLBI-resolution radio-map algorithms: Performance analysis of different levels of data-sharing on multi-socket, multi-core architectures. *Computer Physics Communications*, **2012**, 183, 1937-1946	4.2	2
16	Numerical simulations of dynamics and emission from relativistic astrophysical jets. *Journal of Physics: Conference Series*, **2013**, 454, 012001	0.3	2
15	Multiprocessing of anisotropic nonlinear diffusion for filtering 3D images **2006**,		2
14	Human pose estimation for mitigating false negatives in weapon detection in video-surveillance. *Neurocomputing*, **2022**,	5.4	2
13	VPP: Visibility-based Path Planning Heuristic for Monitoring Large Regions of Complex Terrain using a UAV Onboard Camera. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 1-1	4.7	2
12	A First Step to Accelerating Fingerprint Matching Based on Deformable Minutiae Clustering. *Lecture Notes in Computer Science*, **2018**, 361-371	0.9	2
11	Fast Insolation Computation in Large Territories. *Lecture Notes in Computer Science*, **2007**, 54-61	0.9	2
10	A data relocation approach for terrain surface analysis on multi-GPU systems: a case study on the total viewshed problem. *International Journal of Geographical Information Science*, **2020**, 1-21	4.1	2
9	On a model of three-dimensional bursting and its parallel implementation. *Computer Physics Communications*, **2008**, 178, 471-485	4.2	1

List of Publications

8	Classifying the content of social media images to support cultural ecosystem service assessments using deep learning models. *Ecosystem Services*, **2022**, 54, 101410	6.1	1
7	Evaluation of Parallel Paradigms on Anisotropic Nonlinear Diffusion. *Lecture Notes in Computer Science*, **2006**, 1159-1168	0.9	1
6	A Data Partitioning Model for Highly Heterogeneous Systems. *Lecture Notes in Computer Science*, **2017**, 468-479	0.9	1
5	Analysis of the Interaction of Electromagnetic Signals with Thin-Wires Structures. Multiprocessing Issues for an Iterative Method. *Lecture Notes in Computer Science*, **2005**, 78-89	0.9	
4	Action Recognition for Anomaly Detection Using Transfer Learning and Deep Architectures. *Lecture Notes in Networks and Systems*, **2022**, 183-192	0.5	
3	CI-Dataset and DetDSCI Methodology for Detecting Too Small and Too Large Critical Infrastructures in Satellite Images: Airports and Electrical Substations as Case Study. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 12149-12162	4.7	
2	Parallel Simulation of Three Dimensional Bursting with MPI and OpenMP. *Lecture Notes in Computer Science*, **2006**, 106-113	0.9	
1	TimeSpec4LULC: a global multispectral time series database for training LULC mapping models with machine learning. *Earth System Science Data*, **2022**, 14, 1377-1411	10.5	