Pierre E Manneback

List of Publications by Year
in descending order

60	782	623699	580810
papers	citations	14 h-index	25 g-index

64	64	64	504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Multi-Resolution FPGA-Based Architecture for Real-Time Edge and Corner Detection. IEEE Transactions on Computers, 2014, 63, 2376-2388.	3.4	83
2	Fog IoT for Health: A new Architecture for Patients and Elderly Monitoring.. Procedia Computer Science, 2019, 160, 289-297.	2.0	62
3	A new Edge Architecture for AI-IoT services deployment. Procedia Computer Science, 2020, 175, 10-19.	2.0	58
4	Monitoring System Using Internet of Things For Potential Landslides. Procedia Computer Science, 2018, 134, 26-34.	2.0	52
5	Web Monitoring of Bee Health for Researchers and Beekeepers Based on the Internet of Things. Procedia Computer Science, 2018, 130, 991-998.	2.0	47
6	Edge Computing and Artificial Intelligence for Real-time Poultry Monitoring. Procedia Computer Science, 2020, 175, 534-541.	2.0	41
7	Heterogeneous Computing for Vertebra Detection and Segmentation in X-Ray Images. International Journal of Biomedical Imaging, 2011, 2011, 1-12.	3.9	29
8	GPU-based segmentation of cervical vertebra in X-Ray images. , 2010, , .		24
9	Data management and internet of things : A methodological review in smart farming. Internet of Things (Netherlands), 2021, 14, 100378.	7.7	24
10	Web-based cattle behavior service for researchers based on the smartphone inertial central. Procedia Computer Science, 2017, 110, 110-116.	2.0	23
11	Edge AI-IoT Pivot Irrigation, Plant Diseases, and Pests Identification. Procedia Computer Science, 2020, 177, 40-48.	2.0	22
12	Irrigation pivot-center connected at low cost for the reduction of crop water requirements. , 2018, , .		21
13	Cloud services integration for farm animalsâ€™ behavior studies based on smartphones as activity sensors. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 4651-4662.	4.9	21
14	Edge Computing and Artificial Intelligence for Landslides Monitoring. Procedia Computer Science, 2020, 177, 480-487.	2.0	20
15	Real-time motion tracking using optical flow on multiple GPUs. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2014, 62, 139-150.	0.8	18
16	Cloud architecture for digital phenotyping and automation. , 2017, , .		16
17	Multimedia processing using deep learning technologies, highâ€performance computing cloud resources, and Big Data volumes. Concurrency Computation Practice and Experience, 2020, 32, e5699.	2.2	16
18	Multi-GPU based event detection and localization using high definition videos. , 2014, , .		14

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19	Cloud and distributed architectures for data management in agriculture 4.0 : Review and future trends. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 7494-7514.	3.9	14
20	An Ontology for video human movement representation based on Benesh notation. , 2012, , .		13
21	Edge Computing and Artificial Intelligence Semantically Driven. Application to a Climatic Enclosure. Procedia Computer Science, 2020, 175, 542-547.	2.0	12
22	RevoCampus: a Distributed Open Source and Low-cost Smart Campus. , 2020, , .		11
23	Efficient exploitation of heterogeneous platforms for images features extraction. , 2012, , .		10
24	Cloud architecture for plant phenotyping research. Concurrency Computation Practice and Experience, 2020, 32, e5661.	2.2	10
25	Edge Computing for Cattle Behavior Analysis. , 2020, , .		10
26	Smart Nest Box: IoT Based Nest Monitoring In Artificial Cavities. , 2020, , .		9
27	Multi-CPU/Multi-GPU Based Framework for Multimedia Processing. IFIP Advances in Information and Communication Technology, 2015, , 54-65.	0.7	9
28	A Modification of an Algorithm by Golub and Plemmons for Large Linear Least Squares in the Context of Doppler Positioning. IMA Journal of Numerical Analysis, 1985, 5, 221-233.	2.9	8
29	Open Phytotron: A New IoT Device for Home Gardening. , 2020, , .		8
30	Cloud Platform using Big Data and HPC Technologies for Distributed and Parallels Treatments. Procedia Computer Science, 2018, 141, 112-118.	2.0	7
31	Cloud computing and big data: Technologies and applications. Concurrency Computation Practice and Experience, 2018, 30, e4517.	2.2	6
32	A Portable Multi-CPU/Multi-GPU Based Vertebra Localization in Sagittal MR Images. Lecture Notes in Computer Science, 2014, , 209-218.	1.3	6
33	Traitement dâ€™images sur architectures parallÃ¨les et hÃ©tÃ©rogÃ¨nes. Techniques Et Sciences Informatiques, 2012, 31, 1183-1203.	0.0	6
34	URL-based Web Tracking Detection Using Deep Learning. , 2020, , .		6
35	Least-squares Spline Regression with Block-diagonal Variance Matrices. IMA Journal of Numerical Analysis, 1985, 5, 275-286.	2.9	5
36	Performance evaluation of sparse matrix-vector product (SpMV) computation on GPU architecture. , 2014, , .		4

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37	Real-Time GPU-Based Motion Detection and Tracking Using Full HD Videos. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 12-21.	0.3	4
38	A Multi-level Scheduler for the Grid Computing YML Framework. , 2006, , 87-100.		4
39	Semantic analysis of human movements in videos. , 2012, , .		3
40	An Accurate Tool for Modeling, Fingerprinting, Comparison, and Clustering of Parallel Applications Based on Performance Counters. , 2019, , .		3
41	Integration of Grid Cost Model into ISS/VIOLA Meta-scheduler Environment. , 2006, , 215-224.		3
42	Solving Irregular Sparse Linear Systems On a Multicomputer Using the Cgnr Method. International Journal of High Performance Computing Applications, 1997, 11, 205-211.	1.5	2
43	Exploiting grid computation for solving the Vehicle Routing Problem. , 2010, , .		2
44	Comparing the Performance and Power Usage of GPU and ARM Clusters for Map-Reduce. , 2013, , .		2
45	Deployment of Containerized Deep Learning Applications in the Cloud. , 2020, , .		2
46	Optimizing Xen inter-domain data transfer. , 2014, , .		1
47	Towards a Semantic Video Analysis using Deep Learning and Ontology. , 2018, , .		1
48	Boosting an Embedded Relational Database Management System with Graphics Processing Units. , 2016, , .		1
49	Analytical Energy Model Parametrized by Workload, Clock Frequency and Number of Active Cores for Share-Memory High-Performance Computing Applications. Energies, 2022, 15, 1213.	3.1	1
50	Well balanced sparse matrix-vector multiplication on a parallel heterogeneous system. , 2006, , .		0
51	Message from the HeteroPar 2007 chair. , 2007, , .		0
52	Optimizing performance of batch of applications on cloud servers exploiting multiple GPUs. , 2012, , .		0
53	Taking advantage of GPU/CPU architectures for sparse Conjugate Gradient solver computation. , 2015, , .		0
54	Optimizing Xen Inter-domain Communications. , 2015, , .		0

#	Article	IF	Citations
55	Towards a Semantic Video Analysis using Deep Learning and Ontology. , 2019, , .		0
56	Response Deadline Evaluation in Point-to-Point Negotiation on Grids. Lecture Notes in Computer Science, 2009, , 15-27.	1.3	0
57	Efficiency of GPUs for Relational Database Engine Processing. Lecture Notes in Computer Science, 2016, , 226-233.	1.3	0
58	Improving Performances of an Embedded Relational Database Management System with a Hybrid CPU/GPU Processing Engine. Communications in Computer and Information Science, 2017, , 160-177.	0.5	0
59	Deep Learning and Approach for Tracking Peopleâ€™s Movements in a Video. , 2020, , .		0
60	A Minimally Intrusive Approach for Automatic Assessment of Parallel Performance Scalability of Shared-Memory HPC Applications. Electronics (Switzerland), 2022, 11, 689.	3.1	0