Pierre E Manneback

List of Publications by Year in Descending Order

50 papers	489 citations	12 h-index	20 g-index
64 ext. papers	637 ext. citations	1.8 avg, IF	4.25 L-index

#	Paper	IF	Citations
50	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
49	A Minimally Intrusive Approach for Automatic Assessment of Parallel Performance Scalability of Shared-Memory HPC Applications. *Electronics (Switzerland)*, **2022**, 11, 689	2.6	
48	Cloud and distributed architectures for data management in agriculture 4.0 : Review and future trends. *Journal of King Saud University - Computer and Information Sciences*, **2021**,	2.5	4
47	Data management and internet of things : A methodological review in smart farming. *Internet of Things (Netherlands)*, **2021**, 14, 100378	6.9	12
46	RevoCampus: a Distributed Open Source and Low-cost Smart Campus **2020**,		7
45	Smart Nest Box: IoT Based Nest Monitoring In Artificial Cavities **2020**,		6
44	Multimedia processing using deep learning technologies, high-performance computing cloud resources, and Big Data volumes. *Concurrency Computation Practice and Experience*, **2020**, 32, e5699	1.4	3
43	Cloud architecture for plant phenotyping research. *Concurrency Computation Practice and Experience*, **2020**, 32, e5661	1.4	8
42	Open Phytotron: A New IoT Device for Home Gardening **2020**,		7
41	Edge Computing for Cattle Behavior Analysis **2020**,		9
40	Edge Computing and Artificial Intelligence Semantically Driven. Application to a Climatic Enclosure. *Procedia Computer Science*, **2020**, 175, 542-547	1.6	11
39	Edge AI-IoT Pivot Irrigation, Plant Diseases, and Pests Identification. *Procedia Computer Science*, **2020**, 177, 40-48	1.6	12
38	Edge Computing and Artificial Intelligence for Landslides Monitoring. *Procedia Computer Science*, **2020**, 177, 480-487	1.6	8
37	Edge Computing and Artificial Intelligence for Real-time Poultry Monitoring. *Procedia Computer Science*, **2020**, 175, 534-541	1.6	19
36	A new Edge Architecture for AI-IoT services deployment. *Procedia Computer Science*, **2020**, 175, 10-19	1.6	22
35	Cloud services integration for farm animals behavior studies based on smartphones as activity sensors. *Journal of Ambient Intelligence and Humanized Computing*, **2019**, 10, 4651-4662	3.7	20
34	An Accurate Tool for Modeling, Fingerprinting, Comparison, and Clustering of Parallel Applications Based on Performance Counters **2019**,		1

33	Towards a Smart Exploitation of GPUs for Low Energy Motion Estimation Using Full HD and 4K Videos. *Lecture Notes in Networks and Systems*, **2019**, 284-300	0.5	0
32	Fog IoT for Health: A new Architecture for Patients and Elderly Monitoring.. *Procedia Computer Science*, **2019**, 160, 289-297	1.6	37
31	Web Monitoring of Bee Health for Researchers and Beekeepers Based on the Internet of Things. *Procedia Computer Science*, **2018**, 130, 991-998	1.6	34
30	Monitoring System Using Internet of Things For Potential Landslides. *Procedia Computer Science*, **2018**, 134, 26-34	1.6	39
29	Cloud Platform using Big Data and HPC Technologies for Distributed and Parallels Treatments. *Procedia Computer Science*, **2018**, 141, 112-118	1.6	6
28	**2018**,		16
27	Web-based cattle behavior service for researchers based on the smartphone inertial central. *Procedia Computer Science*, **2017**, 110, 110-116	1.6	21
26	Cloud architecture for digital phenotyping and automation **2017**,		13
25	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	0.3	
24	Efficiency of GPUs for Relational Database Engine Processing. *Lecture Notes in Computer Science*, **2016**, 226-233	0.9	
23	Multi-CPU/Multi-GPU Based Framework for Multimedia Processing. *IFIP Advances in Information and Communication Technology*, **2015**, 54-65	0.5	8
22	A Multi-Resolution FPGA-Based Architecture for Real-Time Edge and Corner Detection. *IEEE Transactions on Computers*, **2014**, 63, 2376-2388	2.5	55
21	Real-time motion tracking using optical flow on multiple GPUs. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, **2014**, 62, 139-150		9
20	Taking Advantage of Heterogeneous Platforms in Image and Video Processing **2014**, 429-449		4
19	Multi-GPU based event detection and localization using high definition videos **2014**,		10
18	Performance evaluation of sparse matrix-vector product (SpMV) computation on GPU architecture **2014**,		2
17	A Portable Multi-CPU/Multi-GPU Based Vertebra Localization in Sagittal MR Images. *Lecture Notes in Computer Science*, **2014**, 209-218	0.9	6
16	Comparing the Performance and Power Usage of GPU and ARM Clusters for Map-Reduce **2013**,		1

15	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	0.2	1
14	An Ontology for video human movement representation based on Benesh notation **2012**,		4
13	Semantic analysis of human movements in videos **2012**,		3
12	Efficient exploitation of heterogeneous platforms for images features extraction **2012**,		9
11	Traitement d□images sur architectures parall□les et h□t□rog□nes. *Techniques Et Sciences Informatiques*, **2012**, 31, 1183-1203		3
10	Heterogeneous computing for vertebra detection and segmentation in x-ray images. *International Journal of Biomedical Imaging*, **2011**, 2011, 640208	5.2	21
9	Exploiting grid computation for solving the Vehicle Routing Problem **2010**,		1
8	GPU-based segmentation of cervical vertebra in X-Ray images **2010**,		18
7	Response Deadline Evaluation in Point-to-Point Negotiation on Grids. *Lecture Notes in Computer Science*, **2009**, 15-27	0.9	
6	Integration of Grid Cost Model into ISS/VIOLA Meta-scheduler Environment **2006**, 215-224		2
5	A Multi-level Scheduler for the Grid Computing YML Framework **2006**, 87-100		2
4	Study of the Load Balancing in the Parallel Training for Automatic Speech Recognition. *Lecture Notes in Computer Science*, **2000**, 506-510	0.9	
3	Solving Irregular Sparse Linear Systems On a Multicomputer Using the Cgnr Method. *International Journal of High Performance Computing Applications*, **1997**, 11, 205-211		2
2	Least-squares Spline Regression with Block-diagonal Variance Matrices. *IMA Journal of Numerical Analysis*, **1985**, 5, 275-286	1.8	4
1	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	1.8	5