

Felipe M G França

List of Publications by Year in descending order

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164
papers

818
citations

706676

14
h-index

843174

20
g-index

169
all docs

169
docs citations

169
times ranked

655
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional gradient descent for n-tuple regression. Neurocomputing, 2022, 500, 1016-1028.	3.5	0
2	Concurrency Analysis in Dynamic Dataflow Graphs. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 44-54.	3.2	2
3	Optimizing concurrency under Scheduling by Edge Reversal. Networks, 2021, 77, 520-537.	1.6	1
4	Using NER + ML to Automatically Detect Fake News. Advances in Intelligent Systems and Computing, 2021, , 1176-1187.	0.5	1
5	Gamma " General Abstract Model for Multiset manipulation and dynamic dataflow model: An equivalence study. Concurrency Computation Practice and Experience, 2021, 33, e6176.	1.4	1
6	Novel parallel processing techniques for IoT-based machine learning applications. Concurrency Computation Practice and Experience, 2021, 33, e6255.	1.4	0
7	A Lightweight Error-Resiliency Mechanism for Deep Neural Networks. , 2021, , .		6
8	Preventing DNN Model IP Theft via Hardware Obfuscation. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 267-277.	2.7	16
9	What is the best grid-map for self-driving cars localization? An evaluation under diverse types of illumination, traffic, and environment. Expert Systems With Applications, 2021, 179, 115077.	4.4	4
10	Regression WiSARD application of controller on DC STATCOM converter under fault conditions. , 2020, , .		1
11	Weightless Neural Networks Applied to Nonintrusive Load Monitoring. , 2020, , .		2
12	Extending the weightless WiSARD classifier for regression. Neurocomputing, 2020, 416, 280-291.	3.5	5
13	Weightless Neural Networks as Memory Segmented Bloom Filters. Neurocomputing, 2020, 416, 292-304.	3.5	13
14	Reliability Evaluation of Compressed Deep Learning Models. , 2020, , .		15
15	Cost-effective, Energy-efficient, and Scalable Storage Computing for Large-scale AI Applications. ACM Transactions on Storage, 2020, 16, 1-37.	1.4	22
16	Building a portable deeply-nested implicit information flow tracking. , 2020, , .		0
17	A weightless regression system for predicting multi-modal empathy. , 2020, , .		1
18	Applying Weightless Neural Networks to a P300-Based Brain-Computer Interface. IFMBE Proceedings, 2019, , 113-117.	0.2	3

#	ARTICLE	IF	CITATIONS
19	DTM@GPU: Characterizing and evaluating trace redundancy in GPU. Concurrency Computation Practice and Experience, 2019, 31, e4450.	1.4	1
20	Teaching High Performance Computing through Parallel Programming Marathons. , 2019, , .		3
21	Exploring the Equivalence between Dynamic Dataflow Model and Gamma - General Abstract Model for Multiset Manipulation. , 2019, , .		3
22	A Distributed Wheel Sieve Algorithm. , 2019, , .		1
23	A Feasible FPGA Weightless Neural Accelerator. , 2019, , .		6
24	On the security aspects of Internet of Things: A systematic literature review. Journal of Communications and Networks, 2019, 21, 444-457.	1.8	36
25	Design of Robust, High-Entropy Strong PUFs via Weightless Neural Network. Journal of Hardware and Systems Security, 2019, 3, 235-249.	0.8	4
26	MLPrivacyGuard. , 2019, , .		6
27	A dataflow runtime environment and static scheduler for edge, fog and in-situ computing. International Journal of Grid and Utility Computing, 2019, 10, 235.	0.1	0
28	An optimised dataflow engine for GPGPU stream processing. International Journal of Grid and Utility Computing, 2019, 10, 248.	0.1	0
29	Efficient Testing of Physically Unclonable Functions for Uniqueness. , 2019, , .		0
30	A Novel Sequential Activation Method for the Locomotion of Quadrupedal Soft Robots. , 2019, , .		1
31	Hardware-Accelerated Similarity Search with Multi-Index Hashing. , 2019, , .		0
32	Special issue on parallel applications for in-situ computing on the next-generation computing platforms. International Journal of High Performance Computing Applications, 2019, 33, 429-430.	2.4	0
33	DF@DTM: Dynamic Task Memoization and reuse in dataflow. Concurrency Computation Practice and Experience, 2019, 31, e4937.	1.4	5
34	The Exact VC Dimension of the WiSARD n-Tuple Classifier. Neural Computation, 2019, 31, 176-207.	1.3	6
35	Action Units Classification Using ClusWiSARD. Lecture Notes in Computer Science, 2019, , 409-420.	1.0	0
36	A dataflow runtime environment and static scheduler for edge, fog and in-situ computing. International Journal of Grid and Utility Computing, 2019, 10, 235.	0.1	0

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37	NEW STUDY FOR HEXAPOD TRACK PLANNING ON ROUGH TERRAIN. , 2019, , .		0
38	An optimised dataflow engine for GPGPU stream processing. International Journal of Grid and Utility Computing, 2019, 10, 248.	0.1	0
39	Introduction to MPP 2019. , 2019, , .		0
40	Weightless neuro-symbolic GPS trajectory classification. Neurocomputing, 2018, 298, 100-108.	3.5	3
41	Weightless Neural Modeling for Mining Data Streams. Series in Machine Perception and Artificial Intelligence, 2018, , 26-43.	0.1	0
42	Weightless Neural Network WISARD Applied to Online Recommender Systems. , 2018, , .		3
43	Wrist Movement Detector for ROS Based Control of the Robotic Hand. Advances in Robotics & Automation, 2018, 07, .	0.2	2
44	A Novel Biomarker of Compensatory Recruitment of Face Emotional Imagery Networks in Autism Spectrum Disorder. Frontiers in Neuroscience, 2018, 12, 791.	1.4	18
45	Introduction to MPP 2018. , 2018, , .		0
46	A Smart Disk for In-Situ Face Recognition. , 2018, , .		4
47	Prescription of rhythmic patterns for legged locomotion. Neural Computing and Applications, 2017, 28, 3587-3601.	3.2	4
48	Optimising loops in dynamic dataflow. IET Circuits, Devices and Systems, 2017, 11, 113-122.	0.9	0
49	A universal multilingual weightless neural network tagger via quantitative linguistics. Neural Networks, 2017, 91, 85-101.	3.3	10
50	WCDS: A Two-Phase Weightless Neural System for Data Stream Clustering. New Generation Computing, 2017, 35, 391-416.	2.5	9
51	Weightless neural networks for open set recognition. Machine Learning, 2017, 106, 1547-1567.	3.4	29
52	Towards a Dataflow Runtime Environment for Edge, Fog and In-Situ Computing. , 2017, , .		3
53	Realizing strong PUF from weak PUF via neural computing. , 2017, , .		19
54	A resilient scheduler for dataflow execution. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Dataflow Programming for Stream Processing. , 2017, , .		0
56	Message from the MPP 2017 Chair. , 2017, , .		0
57	Interest-centric vehicular ad hoc network. , 2016, , .		0
58	Value Reuse Potential in ARM Architectures. , 2016, , .		2
59	Task Scheduling in Sucuri Dataflow Library. , 2016, , .		8
60	Clustering data streams using a forgetful neural model. , 2016, , .		0
61	Message from the MPP 2016 Workshop Chairs. , 2016, , .		0
62	Financial credit analysis via a clustering weightless neural classifier. Neurocomputing, 2016, 183, 70-78.	3.5	29
63	A GPU-based implementation for the gamma multiset rewriting paradigm. , 2016, , .		4
64	A Parallel Implementation of Data Fusion Algorithm Using Gamma. , 2015, , .		2
65	Message from the MPP Chairs. , 2015, , .		0
66	Graph Templates for Dataflow Programming. , 2015, , .		3
67	Exploiting Parallelism in Linear Algebra Kernels through Dataflow Execution. , 2015, , .		1
68	A bounded neural network for open set recognition. , 2015, , .		15
69	Early detection of epilepsy seizures based on a weightless neural network. , 2015, 2015, 4470-4.		4
70	Multilingual part-of-speech tagging with weightless neural networks. Neural Networks, 2015, 66, 11-21.	3.3	32
71	Stochastic Product-Mix: A Grid Computing Industrial Application. Journal of Grid Computing, 2015, 13, 293-304.	2.5	1
72	Real-Time Music Tracking Based on a Weightless Neural Network. , 2015, , .		2

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73	Automatic complex instruction identification for efficient application mapping onto application-specific instruction set processors. Analog Integrated Circuits and Signal Processing, 2015, 85, 139-158.	0.9	0
74	Extending SMER-based CPGs to accommodate total support phases and kinematics-safe transitions between gait rhythms of hexapod robots. Neurocomputing, 2015, 170, 113-127.	3.5	5
75	Implementing gait pattern control and transition for legged locomotion. IOP Conference Series: Materials Science and Engineering, 2014, 65, 012008.	0.3	0
76	Domino effect protection on dataflow error detection and recovery. , 2014, , .		2
77	A legged central pattern generation model for autonomous gait transition. , 2014, , .		2
78	Stack-Tagged Dataflow. , 2014, , .		2
79	Spatio-temporal Pattern Classification with KernelCanvas and WiSARD. , 2014, , .		3
80	Extracting Semantic Information from Patent Claims Using Phrasal Structure Annotations. , 2014, , .		3
81	A framework for automatic custom instruction identification on multi-issue ASIPs. , 2014, , .		1
82	A Minimalistic Dataflow Programming Library for Python. , 2014, , .		14
83	Couillard: Parallel programming via coarse-grained Data-flow Compilation. Parallel Computing, 2014, 40, 661-680.	1.3	20
84	Online error detection and recovery in dataflow execution. , 2014, , .		10
85	Automatic complex instruction identification for efficient application mapping onto ASIPs. , 2014, , .		3
86	A hyperbolic smoothing approach to the Multisource Weber problem. Journal of Global Optimization, 2014, 60, 49-58.	1.1	6
87	Message from the MPP Workshop Organizers. , 2014, , .		0
88	Hardware reuse in modern application-specific processors and accelerators. Microprocessors and Microsystems, 2013, 37, 684-692.	1.8	1
89	Parallel processing of intersections for ray-tracing in application-specific processors and GPGPUs. Microprocessors and Microsystems, 2013, 37, 739-749.	1.8	0
90	An Empirical Study of the Influence of Data Structures on the Performance of VG-RAM Classifiers. , 2013, , .		1

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91	Tracking Targets in Sea Surface with the WiSARD Weightless Neural Network. , 2013, , .		6
92	Rock-Paper-Scissors WiSARD. , 2013, , .		2
93	Efficient hardware implementation of Ray Tracing based on an embedded software for intersection computation. Journal of Systems Architecture, 2013, 59, 176-185.	2.5	4
94	Effectively addressing complex proteomic search spaces with peptide spectrum matching. Bioinformatics, 2013, 29, 1343-1344.	1.8	20
95	A Swarm Robotics Approach to Decontamination. Advances in Computational Intelligence and Robotics Book Series, 2013, , 107-122.	0.4	0
96	Interactive Volume Rendering Based on Ray-Casting for Multi-core Architectures. Lecture Notes in Computer Science, 2013, , 177-186.	1.0	0
97	Scheduling Cyclic Task Graphs with SCC-Map. , 2012, , .		2
98	A robust gradient clock synchronization algorithm for wireless sensor networks. , 2012, , .		12
99	A Weightless Neural Network-Based Approach for Stream Data Clustering. Lecture Notes in Computer Science, 2012, , 328-335.	1.0	8
100	An efficient parallel architecture for ray-tracing. Analog Integrated Circuits and Signal Processing, 2012, 70, 189-202.	0.9	1
101	The Effect of Intelligent Escape on Distributed SER-Based Search. Lecture Notes in Computer Science, 2012, , 101-112.	1.0	0
102	Trebuchet: exploring TLP with dataflow virtualisation. International Journal of High Performance Systems Architecture, 2011, 3, 137.	0.2	27
103	Can the falseâ€discovery rate be misleading?. Proteomics, 2011, 11, 4105-4108.	1.3	34
104	A Parallel Ray Tracing Architecture Suitable for Application-Specific Hardware and GPGPU Implementations. , 2011, , .		4
105	Hardware Reuse in Modern Application-Specific Processors and Accelerators. , 2011, , .		3
106	A parallel architecture for ray-tracing with an embedded intersection algorithm. , 2011, , .		1
107	Massively Parallel Identification of Intersection Points for GPGPU Ray Tracing. Lecture Notes in Computer Science, 2011, , 14-23.	1.0	0
108	Producing pattern examples from â€œmentalâ€images. Neurocomputing, 2010, 73, 1057-1064.	3.5	35

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109	Movement pursuit control of an offshore automated platform via a RAM-based neural network. , 2010, , .		5
110	TALM: A Hybrid Execution Model with Distributed Speculation Support. , 2010, , .		12
111	A parallel architecture for Ray-Tracing. , 2010, , .		5
112	A Distributed Dynamics for WebGraph Decontamination. Lecture Notes in Computer Science, 2010, , 462-472.	1.0	4
113	SYNCHRONOUS-TO-ASYNCHRONOUS CONVERSION OF CRYPTOGRAPHIC CIRCUITS. Journal of Circuits, Systems and Computers, 2009, 18, 271-282.	1.0	4
114	Randomized generation of acyclic orientations upon anonymous distributed systems. Journal of Parallel and Distributed Computing, 2009, 69, 239-246.	2.7	8
115	GridRT: A Massively Parallel Architecture for Ray-Tracing Using Uniform Grids. , 2009, , .		8
116	The Use of Reciprocal Trade as a Model of Sharing Resources in P2P Networks. , 2009, , .		1
117	SpMT WaveCache: Exploiting Thread-Level Parallelism in WaveScalar. , 2009, , .		2
118	A massively parallel hardware architecture for ray-tracing. International Journal of High Performance Systems Architecture, 2009, 2, 26.	0.2	6
119	Two ID-Free Distributed Distance-2 Edge Coloring Algorithms for WSNs. Lecture Notes in Computer Science, 2009, , 919-930.	1.0	3
120	Modelling of aircraft emergency evacuation: a multiagent approach. , 2009, , .		0
121	A General Rhythmic Pattern Generation Architecture for Legged Locomotion. , 2009, , 202-230.		0
122	Transactional WaveCache: Towards Speculative and Out-of-Order DataFlow Execution of Memory Operations. , 2008, , .		10
123	Personal Autonomic Desktop Manager with a Circulatory Computing Approach. , 2008, , .		1
124	LOGICAL REASONING VIA SATISFIABILITY MAPPED INTO ENERGY FUNCTIONS. International Journal of Pattern Recognition and Artificial Intelligence, 2008, 22, 1031-1043.	0.7	3
125	Automated Guided Vehicles (AGV): Searching a Path in the Flexible Manufacturing Systems. Journal of KONBiN, 2008, 8, .	0.1	7
126	The Influence of Order on a Large Bag of Words. , 2008, , .		3

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127	A new intelligent systems approach to 3D animation in television. , 2007, , .		6
128	A Software Architecture for the Provisioning of Mobile Services in Peer-to-Peer Environments. , 2007, , .		3
129	Limits for a feasible speculative trace reuse implementation. International Journal of High Performance Systems Architecture, 2007, 1, 69.	0.2	3
130	Automatic Constraint Partitioning to Speed Up CLP Execution. , 2007, , .		0
131	Pyndorama, Integrating Web Learning System in a Single Application. , 2007, , .		0
132	An Intelligent Mechanism to Explore a Two-Level Cache Hierarchy Considering Energy Consumption and Time Performance. , 2007, , .		7
133	Logic as Energy: A SAT-Based Approach. , 2007, , 458-467.		0
134	A Speculative Trace Reuse Architecture with Reduced Hardware Requirements. , 2006, , .		6
135	Gerando orientações acélicas com algoritmos probabilísticos distribuídos. Pesquisa Operacional, 2005, 25, 301-312.	0.1	2
136	A Novel Distributed Scheduling Algorithm for Resource Sharing Under Near-Heavy Load. Lecture Notes in Computer Science, 2005, , 431-442.	1.0	2
137	SATyrus: a SAT-based neuro-symbolic architecture for constraint processing. , 2005, , .		5
138	Mapping and Combining Combinatorial Problems into Energy Landscapes via Pseudo-Boolean Constraints. Lecture Notes in Computer Science, 2005, , 308-317.	1.0	7
139	A generalized locomotion CPG architecture based on oscillatory building blocks. Biological Cybernetics, 2003, 89, 34-42.	0.6	17
140	AUTOWISARD: Unsupervised Modes for the WISARD. Lecture Notes in Computer Science, 2001, , 435-441.	1.0	5
141	INTRODUCTION BY GUEST EDITORS. International Journal of Neural Systems, 2001, 11, vii-x.	3.2	0
142	Sharing Resources at Nonuniform Access Rates. Theory of Computing Systems, 2000, 34, 13-26.	0.7	18
143	On computing all maximal cliques distributedly. Lecture Notes in Computer Science, 1997, , 37-48.	1.0	6
144	Optimal mapping of neighbourhood-constrained systems. Lecture Notes in Computer Science, 1995, , 165-170.	1.0	4

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145	A Randomised Distributed Primer for the Updating Control of Anonymous ANNs. , 1994, , 585-588.		2
146	MPH " A Hybrid Parallel Machine. Microprocessing and Microprogramming, 1989, 25, 229-232.	0.3	1
147	Specification of a communication virtual processor for parallel processing systems. Microprocessing and Microprogramming, 1988, 24, 511-518.	0.3	3
148	Design of an EDISON virtual machine " From a H L L specification to a microprogrammed implementation. Microprocessing and Microprogramming, 1987, 20, 209-216.	0.3	3
149	Reconfigurable hardware for tomographic processing. , 0, , .		1
150	Improved IDEA. , 0, , .		2
151	Implementation of overlapped block filtering using scheduling by edge reversal. , 0, , .		0
152	A distributed implementation of Structured Gamma. , 0, , .		5
153	Validating an unsupervised weightless perceptron. , 0, , .		5
154	The limits of speculative trace reuse on deeply pipelined processors. , 0, , .		3
155	Applying scheduling by edge reversal to constraint partitioning. , 0, , .		3
156	Value Predictors for Reuse through Speculation on Traces. , 0, , .		2
157	A Distributed Prime Sieving Algorithm based on Scheduling by Multiple Edge Reversal. , 0, , .		1
158	Implementing a parallel sparse matrix-vector multiplication using dataflow. , 0, , .		0
159	Transiões De Ritmos Em CPGs Artificiais Via Acoplamento Neural Generalizado. , 0, , .		0
160	Classificaço por Pixels de Imagens de Sensoriamento Remoto empregando Redes Neurais Sem Peso WiSARD. , 0, , .		0
161	NC-WIZARD: UMA INTERPRETAÇÃO BOOLEANA DA ARQUITETURA NEOCOGNITRON. , 0, , .		0
162	Explorando Paralelismo Dataflow em Geometria de Distâncias Moleculares Intervalares. , 0, , .		0

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163	A Swarm Robotics Approach to Decontamination. , 0 , , 955-969.		0
164	Trebuchet: Explorando TLP com Virtualização DataFlow. , 0 , , .		1