

# Leonel Sousa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6255434/publications.pdf>

Version: 2024-02-01

274  
papers

3,504  
citations

172457

29  
h-index

233421

45  
g-index

288  
all docs

288  
docs citations

288  
times ranked

2429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Communication contention in task scheduling. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 503-515.	5.6	143
2	Femtomolar limit of detection with a magnetoresistive biochip. Biosensors and Bioelectronics, 2009, 24, 2690-2695.	10.1	107
3	Cache-aware Roofline model: Upgrading the loft. IEEE Computer Architecture Letters, 2014, 13, 21-24.	1.5	89
4	Massively LDPC Decoding on Multicore Architectures. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 309-322.	5.6	85
5	A Survey on Fully Homomorphic Encryption. ACM Computing Surveys, 2018, 50, 1-33.	23.0	82
6	A Portable and Autonomous Magnetic Detection Platform for Biosensing. Sensors, 2009, 9, 4119-4137.	3.8	76
7	Parallel LDPC Decoding on GPUs Using a Stream-Based Computing Approach. Journal of Computer Science and Technology, 2009, 24, 913-924.	1.5	75
8	General method for eliminating redundant computations in video coding. Electronics Letters, 2000, 36, 306.	1.0	72
9	Toward a realistic task scheduling model. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 263-275.	5.6	67
10	A universal architecture for designing efficient modulo $2^{\sup n+1}$ multipliers. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1166-1178.	0.1	63
11	List scheduling: extension for contention awareness and evaluation of node priorities for heterogeneous cluster architectures. Parallel Computing, 2004, 30, 81-101.	2.1	61
12	Improving residue number system multiplication with more balanced moduli sets and enhanced modular arithmetic structures. IET Computers and Digital Techniques, 2007, 1, 472.	1.2	55
13	Challenges and trends in the development of a magnetoresistive biochip portable platform. Journal of Magnetism and Magnetic Materials, 2010, 322, 1655-1663.	2.3	55
14	Cost-Efficient SHA Hardware Accelerators. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 999-1008.	3.1	52
15	RNS-Based Elliptic Curve Point Multiplication for Massive Parallel Architectures. Computer Journal, 2012, 55, 629-647.	2.4	49
16	QCA-LG: A tool for the automatic layout generation of QCA combinational circuits. , 2007, , .		46
17	How GPUs can outperform ASICs for fast LDPC decoding. , 2009, , .		46
18	MRC-Based RNS Reverse Converters for the Four-Moduli Sets $\{2^n + 1, 2^n - 1, 2^n, 2^{2n+1} - 1\}$ and $\{2^n + 1, 2^n - 1, 2^{2n}, 2^{2n+1} - 1\}$ . IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 244-248.	3.0	44

#	ARTICLE	IF	CITATIONS
19	Combining Residue Arithmetic to Design Efficient Cryptographic Circuits and Systems. IEEE Circuits and Systems Magazine, 2016, 16, 6-32.	2.3	43
20	Real-time implementation of remotely sensed hyperspectral image unmixing on GPUs. Journal of Real-Time Image Processing, 2015, 10, 469-483.	3.5	42
21	RNS Reverse Converters for Moduli Sets With Dynamic Ranges up to $(8n+1)$ -bit. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1487-1500.	5.4	41
22	Portable LDPC Decoding on Multicores Using OpenCL [Applications Corner]. IEEE Signal Processing Magazine, 2012, 29, 81-109.	5.6	40
23	Efficient and configurable full-search block-matching processors. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 1160-1167.	8.3	38
24	Fine-grain Parallelism Using Multi-core, Cell/BE, and GPU Systems: Accelerating the Phylogenetic Likelihood Function. , 2009, , .		37
25	Visual neuroprosthesis: a non invasive system for stimulating the cortex. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 2648-2662.	0.1	36
26	Massive parallel LDPC decoding on GPU. , 2008, , .		35
27	Deep Learning Architectures for Accurate Millimeter Wave Positioning in 5G. Neural Processing Letters, 2020, 51, 487-514.	3.2	35
28	Detection of 130nm magnetic particles by a portable electronic platform using spin valve and magnetic tunnel junction sensors. Journal of Applied Physics, 2008, 103, 07A310.	2.5	32
29	Dethroning GPS: Low-Power Accurate 5G Positioning Systems Using Machine Learning. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 240-252.	3.6	32
30	Performance and power modeling and evaluation of virtualized servers in IaaS clouds. Information Sciences, 2017, 394-395, 106-122.	6.9	31
31	Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. Journal of Applied Physics, 2006, 99, 08B307.	2.5	30
32	Elliptic Curve point multiplication on GPUs. , 2010, , .		30
33	2-Axis Magnetometers Based on Full Wheatstone Bridges Incorporating Magnetic Tunnel Junctions Connected in Series. IEEE Transactions on Magnetics, 2012, 48, 4107-4110.	2.1	30
34	Dynamic Load Balancing for Real-Time Video Encoding on Heterogeneous CPU+GPU Systems. IEEE Transactions on Multimedia, 2014, 16, 108-121.	7.2	30
35	Implementation Strategy of Convolution Neural Networks on Field Programmable Gate Arrays for Appliance Classification Using the Voltage and Current (V-I) Trajectory. Energies, 2018, 11, 2460.	3.1	30
36	Efficient Method for Magnitude Comparison in RNS Based on Two Pairs of Conjugate Moduli. Computer Arithmetic, IEEE Symposium on, 2007, , .	0.0	29

#	ARTICLE	IF	CITATIONS
37	A New Hand-Held Microsystem Architecture for Biological Analysis. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2384-2395.	0.1	28
38	Caravela: A Novel Stream-Based Distributed Computing Environment. Computer, 2007, 40, 70-77.	1.1	28
39	Exploring GPU performance, power and energy-efficiency bounds with Cache-aware Roofline Modeling. , 2017, , .		28
40	Nonconventional Computer Arithmetic Circuits, Systems and Applications. IEEE Circuits and Systems Magazine, 2021, 21, 6-40.	2.3	27
41	A tutorial overview on the properties of the discrete cosine transform for encoded image and video processing. Signal Processing, 2011, 91, 2443-2464.	3.7	26
42	Efficient Hybrid DCT-Domain Algorithm for Video Spatial Downscaling. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	24
43	On the Design of RNS Reverse Converters for the Four-Moduli Set $\{2^{\text{mmb } n}+1, 2^{\text{mmb } n}-1, 2^{\text{mmb } n}, 2^{\{\text{mmb } n\}+1}+1\}$ . IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 1945-1949.	3.1	24
44	 $2^n$  $2^{\text{mmb } n}+1$  $2^{\text{mmb } n}$  $2^{\{\text{mmb } n\}+1}+1$ . IEEE Transactions on Computers, 2015, 64, 3322-3334.	3.4	24
45	GPU-based DVB-S2 LDPC decoder with high throughput and fast error floor detection. Electronics Letters, 2011, 47, 542.	1.0	23
46	The CRNS framework and its application to programmable and reconfigurable cryptography. Transactions on Architecture and Code Optimization, 2013, 9, 1-25.	2.0	23
47	TrustZone-backed bitcoin wallet. , 2017, , .		23
48	High coded data rate and multicodeword WiMAX LDPC decoding on Cell/BE. Electronics Letters, 2008, 44, 1415.	1.0	21
49	GHEVC: An Efficient HEVC Decoder for Graphics Processing Units. IEEE Transactions on Multimedia, 2017, 19, 459-474.	7.2	21
50	Fine-grain parallelism using multi-core, Cell/BE, and GPU Systems. Parallel Computing, 2012, 38, 365-390.	2.1	20
51	Reverse Converter Design via Parallel-Prefix Adders: Novel Components, Methodology, and Implementations. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 374-378.	3.1	20
52	Efficient Modular Adder Designs Based on Thermometer and One-Hot Coding. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 2142-2155.	3.1	20
53	A hybrid algorithm for task scheduling on heterogeneous multiprocessor embedded systems. Applied Soft Computing Journal, 2020, 91, 106202.	7.2	20
54	Method to Design General RNS Reverse Converters for Extended Moduli Sets. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 877-881.	3.0	19

#	ARTICLE	IF	CITATIONS
55	A Survey on Programmable LDPC Decoders. IEEE Access, 2016, 4, 6704-6718.	4.2	19
56	Arithmetic Units for RNS Moduli $\{2n-3\}$ and $\{2n+3\}$ Operations. , 2010, , .		18
57	Design Space Exploration of LDPC Decoders Using High-Level Synthesis. IEEE Access, 2017, 5, 14600-14615.	4.2	18
58	Design and implementation of a stream-based distributed computing platform using graphics processing units. , 2007, , .		17
59	Sign Detection and Number Comparison on RNS 3-Moduli Sets $\{2^{n-1}, 2^{n+x}, 2^{n+1}\}$ $\{2^{n-1}, 2^{n+x}, 2^{n+1}\}$ . Circuits, Systems, and Signal Processing, 2017, 36, 1224-1246.	2.0	17
60	New energy-efficient hybrid wide-operand adder architecture. IET Circuits, Devices and Systems, 2019, 13, 1221-1231.	1.4	17
61	Beamformed Fingerprint Learning for Accurate Millimeter Wave Positioning. , 2018, , .		16
62	Data buffering optimization methods toward a uniform programming interface for gpu-based applications. , 2007, , .		15
63	Noise Characteristics and Particle Detection Limits in Diode-MTJ Matrix Elements for Biochip Applications. IEEE Transactions on Magnetics, 2007, 43, 2403-2405.	2.1	15
64	On Task Scheduling Accuracy: Evaluation Methodology and Results. Journal of Supercomputing, 2004, 27, 177-194.	3.6	14
65	An RNS based Specific Processor for Computing the Minimum Sum-of-Absolute-Differences. , 2008, , .		14
66	Cooperative CPU&#x0026GPU deblocking filter parallelization for high performance HEVC video codecs. , 2014, , .		14
67	Arithmetic-Based Binary-to-RNS Converter Module $\{2^{\pm k}\}$ $\{2^{\pm k}\}$ for $n$ -bit Dynamic Range. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 603-607.	3.1	14
68	Performance Analysis with Cache-Aware Roofline Model in Intel Advisor. , 2017, , .		14
69	NTT Architecture for a Linux-Ready RISC-V Fully-Homomorphic Encryption Accelerator. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2669-2682.	5.4	14
70	p264. , 2010, , .		13
71	A Lab Project on the Design and Implementation of Programmable and Configurable Embedded Systems. IEEE Transactions on Education, 2013, 56, 322-328.	2.4	13
72	Beyond the Roofline: Cache-Aware Power and Energy-Efficiency Modeling for Multi-Cores. IEEE Transactions on Computers, 2017, 66, 52-58.	3.4	13

#	ARTICLE	IF	CITATIONS
73	Improving the Efficiency of SVM Classification With FHE. IEEE Transactions on Information Forensics and Security, 2020, 15, 1709-1722.	6.9	13
74	Comparison of contention aware list scheduling heuristics for cluster computing. , 0, , .		12
75	A Parallel Algorithm for Advanced Video Motion Estimation on Multicore Architectures. , 2008, , .		12
76	Efficient sign identification engines for integers represented in RNS extended $3^k$ moduli set $\{2^{n_1}, 2^{n_2}, \dots, 2^{n_k}\}$ . Electronics Letters, 2014, 50, 1138-1139.	1.0	12
77	HEVC in-loop filters GPU parallelization in embedded systems. , 2015, , .		12
78	A Framework for Application-Guided Task Management on Heterogeneous Embedded Systems. Transactions on Architecture and Code Optimization, 2016, 12, 1-25.	2.0	12
79	A Multifunctional Unit for Designing Efficient RNS-Based Datapaths. IEEE Access, 2017, 5, 25972-25986.	4.2	12
80	Modeling and Evaluation of Service Composition in Commercial Multiclouds Using Timed Colored Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 947-961.	9.3	12
81	RNS Arithmetic Units for Modulo $\{2^{n+k}\}$ . , 2012, , .		11
82	On the Design of RNS Inter-Modulo Processing Units for the Arithmetic-Friendly Moduli Sets $\{2^{n_1}, 2^{n_2}, \dots, 2^{n_k}\}$ . Computer Journal, 2019, 62, 292-300.	2.4	11
83	Modeling Non-Uniform Memory Access on Large Compute Nodes with the Cache-Aware Roofline Model. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1374-1389.	5.6	11
84	Applying the Stream-Based Computing Model to Design Hardware Accelerators: A Case Study. Lecture Notes in Computer Science, 2009, , 237-246.	1.3	11
85	A genetic-based approach for service placement in fog computing. Journal of Supercomputing, 2022, 78, 10854-10875.	3.6	11
86	Customisable Core-Based Architectures for Real-Time Motion Estimation on FPGAs. Lecture Notes in Computer Science, 2003, , 745-754.	1.3	10
87	Efficient Independent Component Analysis on a GPU. , 2010, , .		10
88	Simultaneous Multi-Level Divisible Load Balancing for Heterogeneous Desktop Systems. , 2012, , .		10
89	Open the Gates: Using High-level Synthesis towards programmable LDPC decoders on FPGAs. , 2013, , .		10
90	SchedMon: A Performance and Energy Monitoring Tool for Modern Multi-cores. Lecture Notes in Computer Science, 2014, , 230-241.	1.3	10

#	ARTICLE	IF	CITATIONS
91	Combining flexibility with low power: Dataflow and wide-pipeline LDPC decoding engines in the Gbit/s era. , 2014, , .		10
92	GPU-assisted HEVC intra decoder. Journal of Real-Time Image Processing, 2016, 12, 531-547.	3.5	10
93	Energy-aware mechanism for stencil-based MPDATA algorithm with constraints. Concurrency Computation Practice and Experience, 2017, 29, e4016.	2.2	10
94	Data-Aided Fast Beamforming Selection for 5G. , 2018, , .		10
95	Retargeting Tensor Accelerators for Epistasis Detection. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2160-2174.	5.6	10
96	An ASIP approach for adaptive AVC Motion Estimation. , 2007, , .		9
97	Neural code metrics: Analysis and application to the assessment of neural models. Neurocomputing, 2009, 72, 2337-2350.	5.9	9
98	Development and evaluation of scalable video motion estimators on GPU. , 2009, , .		9
99	An Efficient Scalable RNS Architecture for Large Dynamic Ranges. Journal of Signal Processing Systems, 2014, 77, 191-205.	2.1	9
100	Unified transform architecture for AVC, AVS, VC-1 and HEVC high-performance codecs. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	9
101	Run-Time Machine Learning for HEVC/H.265 Fast Partitioning Decision. , 2015, , .		9
102	Towards GPU HEVC intra decoding: Seizing fine-grain parallelism. , 2015, , .		9
103	Exploiting task and data parallelism for advanced video coding on hybrid CPU+GPU platforms. Journal of Real-Time Image Processing, 2016, 11, 571-587.	3.5	9
104	Towards Efficient Modular Adders based on Reversible Circuits. , 2018, , .		9
105	More efficient, provably-secure direct anonymous attestation from lattices. Future Generation Computer Systems, 2019, 99, 425-458.	7.5	9
106	On-the-fly attestation of reconfigurable hardware. , 2008, , .		8
107	Binary-to-RNS Conversion Units for moduli $\{2^n \&\#x0B1; 3\}$ . , 2011, , .		8
108	Accelerating the Computation of Induced Dipoles for Molecular Mechanics with Dataflow Engines. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
109	Programmable RNS lattice-based parallel cryptographic decryption. , 2015, , .		8
110	Ubiquitous Multimedia: Emerging Research on Multimedia Computing. IEEE MultiMedia, 2016, 23, 12-15.	1.7	8
111	An Efficient Component for Designing Signed Reverse Converters for a Class of RNS Moduli Sets of Composite Form $\{2^k, 2^{p-1}\}$ . IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 48-59.	3.1	8
112	Multiobjective Frog-Leaping Optimization for the Study of Ancestral Relationships in Protein Data. IEEE Transactions on Evolutionary Computation, 2018, 22, 879-893.	10.0	8
113	Exploring the Binary Precision Capabilities of Tensor Cores for Epistasis Detection. , 2020, , .		8
114	Application-driven Cache-Aware Roofline Model. Future Generation Computer Systems, 2020, 107, 257-273.	7.5	8
115	Hierarchical Partitioning Algorithm for Scientific Computing on Highly Heterogeneous CPU + GPU Clusters. Lecture Notes in Computer Science, 2012, , 489-501.	1.3	8
116	Application Specific Instruction Set Processor for Adaptive Video Motion Estimation. , 2006, , .		7
117	Reconfigurable architectures and processors for real-time video motion estimation. Journal of Real-Time Image Processing, 2007, 2, 191-205.	3.5	7
118	Compact and Flexible Microcoded Elliptic Curve Processor for Reconfigurable Devices. , 2009, , .		7
119	On the Modeling of New Tunnel Junction Magnetoresistive Biosensors. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 92-100.	4.7	7
120	Real-time DVB-S2 LDPC decoding on many-core GPU accelerators. , 2011, , .		7
121	EFFICIENT METHOD FOR DESIGNING MODULO $\{2n \pm k\}$ MULTIPLIERS. Journal of Circuits, Systems and Computers, 2014, 23, 1450001.	1.5	7
122	Reconfigurable data flow engine for HEVC motion estimation. , 2014, , .		7
123	High-Level Designs of Complex FIR Filters on FPGAs for the SKA. , 2016, , .		7
124	A Reduced-Bias Approach With a Lightweight Hard-Multiple Generator to Design a Radix-8 Modulo $2^n + 1$ Multiplier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 817-821.	3.0	7
125	Performability-Based Workflow Scheduling in Grids. Computer Journal, 2018, 61, 1479-1495.	2.4	7
126	Sign Identifier for the Enhanced Three Moduli Set $\{2n + k, 2n \hat{a} \in \%1, 2n + \hat{a} \in \%1 \hat{a} \in \%1\}$ . Journal of Signal Processing Systems, 2019, 91, 953-961.	2.1	7



#	ARTICLE	IF	CITATIONS
127	The Role of Non-Positional Arithmetic on Efficient Emerging Cryptographic Algorithms. IEEE Access, 2020, 8, 59533-59549.	4.2	7
128	Parallel LDPC Decoding on the Cell/B.E. Processor. Lecture Notes in Computer Science, 2009, , 389-403.	1.3	7
129	Accelerating 3-Way Epistasis Detection with CPU+GPU Processing. Lecture Notes in Computer Science, 2020, , 106-126.	1.3	7
130	On Realistic Divisible Load Scheduling in Highly Heterogeneous Distributed Systems. , 2012, , .		6
131	Adaptive Scheduling Framework for Real-Time Video Encoding on Heterogeneous Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 597-611.	8.3	6
132	Special issue on real-time energy-aware circuits and systems for HEVC and for its 3D and SVC extensions. Journal of Real-Time Image Processing, 2017, 13, 1-3.	3.5	6
133	Temperature-aware dynamic voltage and frequency scaling enabled MPSoC modeling using Stochastic Activity Networks. Microprocessors and Microsystems, 2018, 60, 15-23.	2.8	6
134	Enhancing Beamformed Fingerprint Outdoor Positioning with Hierarchical Convolutional Neural Networks. , 2019, , .		6
135	Multi-level Parallelization of Advanced Video Coding on Hybrid CPU+GPU Platforms. Lecture Notes in Computer Science, 2013, , 165-174.	1.3	6
136	Monitoring Performance and Power for Application Characterization with the Cache-Aware Roofline Model. Lecture Notes in Computer Science, 2014, , 747-760.	1.3	6
137	Efficient motion vector refinement architecture for sub-pixel motion estimation systems. , 0, , .		5
138	Adaptive Motion Estimation Algorithm for H.264/AVC. , 2007, , .		5
139	CaravelaMPI: Message Passing Interface for Parallel GPU-Based Applications. , 2009, , .		5
140	Modelling and programming stream-based distributed computing based on the meta-pipeline approach. International Journal of Parallel, Emergent and Distributed Systems, 2009, 24, 311-330.	1.0	5
141	Iterative induced dipoles computation for molecular mechanics on GPUs. , 2010, , .		5
142	Randomised multi- $\epsilon$ -modulo residue number system architecture for double- $\epsilon$ -and- $\epsilon$ -add to prevent power analysis side channel attacks. IET Circuits, Devices and Systems, 2013, 7, 283-293.	1.4	5
143	Base Transformation With Injective Residue Mapping for Dynamic Range Reduction in RNS. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2248-2259.	5.4	5
144	Highly parallel HEVC decoding for heterogeneous systems with CPU and GPU. Signal Processing: Image Communication, 2018, 62, 93-105.	3.2	5

#	ARTICLE	IF	CITATIONS
145	A methodical FHE-based cloud computing model. <i>Future Generation Computer Systems</i> , 2019, 95, 639-648.	7.5	5
146	A multiobjective adaptive approach for the inference of evolutionary relationships in protein-based scenarios. <i>Information Sciences</i> , 2019, 485, 281-300.	6.9	5
147	Modeling Epidemic Routing: Capturing Frequently Visited Locations While Preserving Scalability. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 2713-2727.	6.3	5
148	Rescheduling for Optimized SHA-1 Calculation. <i>Lecture Notes in Computer Science</i> , 2006, , 425-434.	1.3	5
149	Algorithm for modulo $(2n+1)$ multiplication. <i>Electronics Letters</i> , 2003, 39, 752.	1.0	4
150	Meta-Pipeline: A New Execution Mechanism for Distributed Pipeline Processing. , 2007, , .		4
151	Integrated Spintronic Platforms for Biomolecular Recognition Detection. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	4
152	Low power microarchitecture with instruction reuse. , 2008, , .		4
153	Merged Computation for Whirlpool Hashing. , 2008, , .		4
154	Statistical Analysis of a Spike Train Distance in Poisson Models. <i>IEEE Signal Processing Letters</i> , 2008, 15, 357-360.	3.6	4
155	Efficient implementation of multi-moduli architectures for Binary-to-RNS conversion. , 2012, , .		4
156	Configurable M-factor VLSI DVB-S2 LDPC decoder architecture with optimized memory tiling design. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012, 2012, .	2.4	4
157	On the Evaluation of Multi-core Systems with SIMD Engines for Public-Key Cryptography. , 2014, , .		4
158	High performance IP core for HEVC quantization. , 2015, , .		4
159	Stretching the limits of Programmable Embedded Devices for Public-key Cryptography. , 2015, , .		4
160	Arithmetical Improvement of the Round-Off for Cryptosystems in High-Dimensional Lattices. <i>IEEE Transactions on Computers</i> , 2017, 66, 2005-2018.	3.4	4
161	MrBayes sMC3. <i>International Journal of High Performance Computing Applications</i> , 2018, 32, 246-265.	3.7	4
162	Comparative assessment of GPGPU technologies to accelerate objective functions: A case study on parsimony. <i>Journal of Parallel and Distributed Computing</i> , 2019, 126, 67-81.	4.1	4

#	ARTICLE	IF	CITATIONS
163	Towards the Integration of Reverse Converters into the RNS Channels. IEEE Transactions on Computers, 2020, 69, 342-348.	3.4	4
164	Raising the Abstraction Level of a Deep Learning Design on FPGAs. IEEE Access, 2020, 8, 205148-205161.	4.2	4
165	Enhancing Data Parallelism of Fully Homomorphic Encryption. Lecture Notes in Computer Science, 2017, , 194-207.	1.3	4
166	Modeling Large Compute Nodes with Heterogeneous Memories with Cache-Aware Roofline Model. Lecture Notes in Computer Science, 2018, , 91-113.	1.3	4
167	Uncertainty Estimation via Monte Carlo Dropout in CNN-Based mmWave MIMO Localization. IEEE Signal Processing Letters, 2022, 29, 269-273.	3.6	4
168	Fast transcoding architectures for insertion of non-regular shaped objects in the compressed DCT-domain. Signal Processing: Image Communication, 2003, 18, 659-683.	3.2	3
169	Task Scheduling: Considering the Processor Involvement in Communication. , 0, , .		3
170	Additive Logistic Regression Applied to Retina Modelling. , 2007, , .		3
171	Feature Selection for the Stochastic Integrate and Fire Model. , 2007, , .		3
172	Developing and Integrating Lab Projects as Important Learning Components in an Embedded Systems Course. , 2007, , .		3
173	Edge Stream Oriented LDPC Decoding. , 2008, , .		3
174	Efficient FPGA elliptic curve cryptographic processor over $GF(2^m)$ . , 2008, , .		3
175	On the design of distributed autonomous embedded systems for biomedical applications. , 2009, , .		3
176	Exploiting SIMD extensions for linear image processing with OpenCL. , 2010, , .		3
177	Computation of Induced Dipoles in Molecular Mechanics Simulations Using Graphics Processors. Journal of Chemical Information and Modeling, 2012, 52, 1159-1166.	5.4	3
178	Performance-Aware Task Management and Frequency Scaling in Embedded Systems. , 2014, , .		3
179	Method for Designing Efficient Mixed Radix Multipliers. Circuits, Systems, and Signal Processing, 2014, 33, 3165-3193.	2.0	3
180	Method for designing multi-channel RNS architectures to prevent power analysis SCA. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
181	GPU acceleration of the HEVC decoder inter prediction module. , 2015, , .		3
182	GPU Parallelization of HEVC In-Loop Filters. International Journal of Parallel Programming, 2017, 45, 1515-1535.	1.5	3
183	Accelerating the phylogenetic parsimony function on heterogeneous systems. Concurrency Computation Practice and Experience, 2017, 29, e4046.	2.2	3
184	Introduction to Residue Number System: Structure and Teaching Methodology. , 2017, , 3-17.		3
185	3D-HEVC DMM-1 Parallelism Exploration Targeting Multicore Systems. , 2018, , .		3
186	Scalable Performance Analysis of Epidemic Routing Considering Skewed Location Visiting Preferences. , 2019, , .		3
187	Parallelism exploration for 3D high-efficiency video coding depth modeling mode one. Journal of Real-Time Image Processing, 2020, 17, 787-797.	3.5	3
188	Variable Latency Carry Speculative Adders with Input-based Dynamic Configuration. Computers and Electrical Engineering, 2021, 93, 107247.	4.8	3
189	Number Theoretic Transform Architecture suitable to Lattice-based Fully-Homomorphic Encryption. , 2021, , .		3
190	Low Power Distance Measurement Unit for Real-Time Hardware Motion Estimators. Lecture Notes in Computer Science, 2006, , 247-255.	1.3	3
191	A programmable cellular neural network circuit. , 2004, , .		2
192	The Midlifekicker Microarchitecture Evaluation Metric. , 0, , .		2
193	On the Implementation and Evaluation of Berkeley Sockets on Maestro2 cluster computing environment. , 0, , .		2
194	Corrections to &#8220;A Universal Architecture for Designing Efficient Modulo $2^{n+1}$ Multipliers&#8221;. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1982-1982.	0.1	2
195	A Run-Time Reconfigurable Processor for Video Motion Estimation. , 2007, , .		2
196	Application Specific Programmable IP Core for Motion Estimation: Technology Comparison Targeting Efficient Embedded Co-Processing Units. , 2008, , .		2
197	Merged computation for Whirlpool hashing. , 2008, , .		2
198	Multi-core platforms for signal processing: source and channel coding. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
199	A Feature Selection Algorithm for the Regularization of Neuron Models. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3824-3830.	4.7	2
200	Measuring and Extraction of Biological Information on New Handheld Biochip-Based Microsystem. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 56-62.	4.7	2
201	H.264/AVC framework for multi-core embedded video encoders. , 2010, , .		2
202	Collaborative execution environment for heterogeneous parallel systems. , 2010, , .		2
203	Embedded multicore architectures for LDPC decoding. , 2010, , .		2
204	Hardware/software co-design of H.264/AVC encoders for multi-core embedded systems. , 2010, , .		2
205	Modeling and Evaluating Non-shared Memory CELL/BE Type Multi-core Architectures for Local Image and Video Processing. Journal of Signal Processing Systems, 2011, 62, 301-318.	2.1	2
206	High throughput and scalable architecture for unified transform coding in embedded H.264/AVC video coding systems. , 2011, , .		2
207	Scheduling Divisible Loads on Heterogeneous Desktop Systems with Limited Memory. Lecture Notes in Computer Science, 2012, , 491-501.	1.3	2
208	High Performance Unified Architecture for Forward and Inverse Quantization in H.264/AVC. , 2012, , .		2
209	A compact and scalable RNS architecture. , 2013, , .		2
210	A comparison of computing architectures and parallelization frameworks based on a two-dimensional FDTD. , 2013, , .		2
211	DARNS:A randomized multi-modulo RNS architecture for double-and-add in ECC to prevent power analysis side channel attacks. , 2013, , .		2
212	Collaborative inter-prediction on CPU&#x002B;GPU systems. , 2014, , .		2
213	FEVES: Framework for Efficient Parallel Video Encoding on Heterogeneous Systems. , 2014, , .		2
214	A Flexible Architecture for Modular Arithmetic Hardware Accelerators based on RNS. Journal of Signal Processing Systems, 2014, 76, 249-259.	2.1	2
215	Efficient HEVC decoder for heterogeneous CPU with GPU systems. , 2016, , .		2
216	Method for designing two levels RNS reverse converters for large dynamic ranges. The Integration VLSI Journal, 2016, 55, 22-29.	2.1	2

#	ARTICLE	IF	CITATIONS
217	A stochastic number representation for fully homomorphic cryptography. , 2017, , .		2
218	HyPoRes: An Hybrid Representation System for ECC. , 2019, , .		2
219	Parallel evolutionary computation for multiobjective gene interaction analysis. Journal of Computational Science, 2020, 40, 101068.	2.9	2
220	Exploiting multi-level parallel metaheuristics and heterogeneous computing to boost phylogenetics. Future Generation Computer Systems, 2022, 127, 208-224.	7.5	2
221	Bioinspired Stimulus Encoder for Cortical Visual Neuroprostheses. , 2005, , 279-290.		2
222	A Lattice-Based Enhanced Privacy ID. Lecture Notes in Computer Science, 2020, , 15-31.	1.3	2
223	Mansard Roofline Model: Reinforcing the Accuracy of the Roofs. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2021, 6, 1-23.	0.9	2
224	Fourth-Order Exhaustive Epistasis Detection for the xPU Era. , 2021, , .		2
225	Parallel LDPC Decoding. , 2011, , 619-628.		2
226	Efficient Reductions in Cyclotomic Rings - Application to Ring-LWE Based FHE Schemes. Lecture Notes in Computer Science, 2018, , 151-171.	1.3	2
227	Generic Architecture Designed for Biomedical Embedded Systems. , 2007, , 353-362.		2
228	Video coding by using the 3D zero-tree approach in the wavelet transform domain. , 0, , .		1
229	Automatic Synthesis of Motion Estimation Processors Based on a New Class of Hardware Architectures. Journal of Signal Processing Systems, 2003, 34, 277-290.	1.0	1
230	An Efficient Expectation-Maximisation Algorithm for Spike Classification. , 2007, , .		1
231	An improved RNS generator $2^k$ based on threshold logic. , 2010, , .		1
232	A flexible architecture for the computation of direct and inverse transforms in H.264/AVC video codecs. IEEE Transactions on Consumer Electronics, 2011, 57, 936-944.	3.6	1
233	VLSI Reverse Converter for RNS Based on the Moduli Set. , 2012, , .		1
234	Energy efficient stream-based configurable architecture for embedded platforms. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
235	Scalable Unified Transform Architecture for Advanced Video Coding Embedded Systems. International Journal of Parallel Programming, 2013, 41, 236-260.	1.5	1
236	An RNS-based architecture targeting hardware accelerators for modular arithmetic. , 2013, , .		1
237	ROM-less RNS-to-binary converter moduli $\{2^{2n}; 1, 2^{2n}; 1, 2^n; 3, 2^n; 3\}$ . , 2014, , .		1
238	RNS reverse converters based on the new Chinese Remainder Theorem I. , 2015, , .		1
239	On Boosting Energy-Efficiency of Heterogeneous Embedded Systems via Game Theory. , 2017, , .		1
240	Inter-Algorithm Multiobjective Cooperation for Phylogenetic Reconstruction on Amino Acid Data. IEEE Transactions on Cybernetics, 2022, 52, 3577-3591.	9.5	1
241	Temperature-aware core management in MPSoCs: modelling and evaluation using MRMs. IET Computers and Digital Techniques, 2020, 14, 17-26.	1.2	1
242	GPU acceleration of Fitch's parsimony on protein data: from Kepler to Turing. Journal of Supercomputing, 2020, 76, 9827-9853.	3.6	1
243	BRAM-LUT Tradeoff on a Polymorphic DES Design. Lecture Notes in Computer Science, 2008, , 55-65.	1.3	1
244	Distributed Shared Memory System Based on the Maestro2 High Performance Cluster Network. , 0, , .		0
245	Heuristic Optimization Methods for Improving Performance of Recursive General Purpose Applications on GPUs. , 2008, , .		0
246	Distributed Web-based Platform for Computer Architecture Simulation. , 2008, , .		0
247	Design and implementation of a tool for modeling and programming deadlock free meta-pipeline applications. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	0
248	Magnetoresistive biochip-based portable platforms for biomolecular recognition detection. New Biotechnology, 2009, 25, S358-S359.	4.4	0
249	Distributed Software Platform for Automation and Control of General Anaesthesia. , 2009, , .		0
250	A quantitative analysis of firing rate estimators: Unveiling bias sources. Neurocomputing, 2010, 73, 2944-2954.	5.9	0
251	Unifying stream based and reconfigurable computing to design application accelerators. , 2010, , .		0
252	Programming Cell/BE and GPUs systems for real-time video encoding. Proceedings of SPIE, 2010, , .	0.8	0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------

253			
-----	--	--	--



#	ARTICLE	IF	CITATIONS
271	Software Emulation of Quantum Resistant Trusted Platform Modules. , 2020, , .		0
272	Massive Data Classification of Neural Responses. Advances in Medical Technologies and Clinical Practice Book Series, 0, , 278-298.	0.3	0
273	Modeling and evaluation of dispatching policies in IaaS cloud data centers using SANs. Sustainable Computing: Informatics and Systems, 2022, 33, 100617.	2.2	0
274	Editorial on the Special Section on Algorithms, Circuits, and Systems for Signal Processing at the Edge. IEEE Open Journal of Circuits and Systems, 2021, 2, 766-768.	1.9	0