Renfa Li

List of Publications by Year in descending order

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		159585	197818
141	2,895	30	49
papers	citations	h-index	g-index
143	143	143	2233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Opportunistic Routing Algorithm for Relay Node Selection in Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2015, 11, 112-121.	11.3	211
2	A Survey of Intrusion Detection for In-Vehicle Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 919-933.	8.0	188
3	LSTM Learning With Bayesian and Gaussian Processing for Anomaly Detection in Industrial IoT. IEEE Transactions on Industrial Informatics, 2020, 16, 5244-5253.	11.3	163
4	A novel fuzzy deep-learning approach to traffic flow prediction with uncertain spatial–temporal data features. Future Generation Computer Systems, 2018, 89, 78-88.	7.5	106
5	Efficient task scheduling for budget constrained parallel applications on heterogeneous cloud computing systems. Future Generation Computer Systems, 2017, 74, 1-11.	7.5	103
6	Sliding Window Optimized Information Entropy Analysis Method for Intrusion Detection on In-Vehicle Networks. IEEE Access, 2018, 6, 45233-45245.	4.2	92
7	Energy-Efficient Scheduling Algorithms for Real-Time Parallel Applications on Heterogeneous Distributed Embedded Systems. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3426-3442.	5.6	63
8	Improved chaff point generation for vault scheme in bioâ€cryptosystems. IET Biometrics, 2013, 2, 48-55.	2.5	62
9	Heterogeneity-driven end-to-end synchronized scheduling for precedence constrained tasks and messages on networked embedded systems. Journal of Parallel and Distributed Computing, 2015, 83, 1-12.	4.1	62
10	Energy-Aware Processor Merging Algorithms for Deadline Constrained Parallel Applications in Heterogeneous Cloud Computing. IEEE Transactions on Sustainable Computing, 2017, 2, 62-75.	3.1	62
11	Adaptive Dynamic Scheduling on Multifunctional Mixed-Criticality Automotive Cyber-Physical Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 6676-6692.	6.3	60
12	Minimizing Energy Consumption of Real-Time Parallel Applications Using Downward and Upward Approaches on Heterogeneous Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 1068-1078.	11.3	59
13	Energy-Efficient Fault-Tolerant Scheduling of Reliable Parallel Applications on Heterogeneous Distributed Embedded Systems. IEEE Transactions on Sustainable Computing, 2018, 3, 167-181.	3.1	57
14	High performance real-time scheduling of multiple mixed-criticality functions in heterogeneous distributed embedded systems. Journal of Systems Architecture, 2016, 70, 3-14.	4.3	56
15	Resource Consumption Cost Minimization of Reliable Parallel Applications on Heterogeneous Embedded Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 1629-1640.	11.3	54
16	Minimizing Redundancy to Satisfy Reliability Requirement for a Parallel Application on Heterogeneous Service-Oriented Systems. IEEE Transactions on Services Computing, 2020, 13, 871-886.	4.6	52
17	Fast Functional Safety Verification for Distributed Automotive Applications During Early Design Phase. IEEE Transactions on Industrial Electronics, 2018, 65, 4378-4391.	7.9	51
18	New Results on a Delay-Derivative-Dependent Fuzzy H \$^infty\$ Filter Design for T–S Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2011, 19, 770-779.	9.8	50

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19	Reliability Enhancement Toward Functional Safety Goal Assurance in Energy-Aware Automotive Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 5447-5462.	11.3	48
20	Threat Analysis for Automotive CAN Networks: A GAN Model-Based Intrusion Detection Technique. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4467-4477.	8.0	43
21	Energy management for multiple real-time workflows on cyber–physical cloud systems. Future Generation Computer Systems, 2020, 105, 916-931.	7. 5	42
22	New stability conditions for uncertain T-S fuzzy systems with interval time-varying delay. International Journal of Control, Automation and Systems, 2012, 10, 490-497.	2.7	38
23	Towards Distributed SDN: Mobility Management and Flow Scheduling in Software Defined Urban IoT. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1400-1418.	5.6	38
24	Recent Advances and Future Trends for Automotive Functional Safety Design Methodologies. IEEE Transactions on Industrial Informatics, 2020, 16, 5629-5642.	11.3	37
25	Reducing Energy Consumption With Cost Budget Using Available Budget Preassignment in Heterogeneous Cloud Computing Systems. IEEE Access, 2018, 6, 20572-20583.	4.2	36
26	Quantitative Fault-Tolerance for Reliable Workflows on Heterogeneous laaS Clouds. IEEE Transactions on Cloud Computing, 2020, 8, 1223-1236.	4.4	35
27	BTMonitor. Transactions on Embedded Computing Systems, 2019, 18, 1-23.	2.9	35
28	Minimizing Schedule Length of Energy Consumption Constrained Parallel Applications on Heterogeneous Distributed Systems. , 2016, , .		34
29	Mixed real-time scheduling of multiple DAGs-based applications on heterogeneous multi-core processors. Microprocessors and Microsystems, 2016, 47, 93-103.	2.8	34
30	Scheduling tradeâ€off of dynamic multiple parallel workflows on heterogeneous distributed computing systems. Concurrency Computation Practice and Experience, 2017, 29, e3782.	2.2	34
31	Energy-Efficient Resource Utilization for Heterogeneous Embedded Computing Systems. IEEE Transactions on Computers, 2017, 66, 1518-1531.	3.4	34
32	WCRT Analysis of CAN Messages in Gateway-Integrated In-Vehicle Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9623-9637.	6.3	32
33	Minimizing Development Cost With Reliability Goal for Automotive Functional Safety During Design Phase. IEEE Transactions on Reliability, 2018, 67, 196-211.	4.6	29
34	Hardware Cost Design Optimization for Functional Safety-Critical Parallel Applications on Heterogeneous Distributed Embedded Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 2418-2431.	11.3	28
35	Minimizing energy consumption with reliability goal on heterogeneous embedded systems. Journal of Parallel and Distributed Computing, 2019, 127, 44-57.	4.1	26
36	IDH-CAN: A Hardware-Based ID Hopping CAN Mechanism With Enhanced Security for Automotive Real-Time Applications. IEEE Access, 2018, 6, 54607-54623.	4.2	25

#	Article	lF	Citations
37	A simulated annealing based genetic local search algorithm for multi-objective multicast routing problems. Annals of Operations Research, 2013, 206, 527-555.	4.1	24
38	A Survey of Low-Energy Parallel Scheduling Algorithms. IEEE Transactions on Sustainable Computing, 2022, 7, 27-46.	3.1	24
39	Dynamic DAG Scheduling on Multiprocessor Systems: Reliability, Energy, and Makespan. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3336-3347.	2.7	23
40	Distortion-Free Watermarking Approach for Relational Database Integrity Checking. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	21
41	Efficient Monocular Depth Estimation for Edge Devices in Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 2821-2832.	11.3	21
42	A survey on vision-based driver distraction analysis. Journal of Systems Architecture, 2021, 121, 102319.	4.3	20
43	Security Enhancement for Real-Time Parallel In-Vehicle Applications by CAN FD Message Authentication. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5038-5049.	8.0	19
44	Digital Twinning Based Adaptive Development Environment for Automotive Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 1387-1396.	11.3	17
45	Security-aware signal packing algorithm for CAN-based automotive cyber-physical systems. IEEE/CAA Journal of Automatica Sinica, 2015, 2, 422-430.	13.1	16
46	LiDAR Point Cloud Recognition and Visualization with Deep Learning for Overhead Contact Inspection. Sensors, 2020, 20, 6387.	3.8	16
47	Towards Interpretable Arrhythmia Classification With Human-Machine Collaborative Knowledge Representation. IEEE Transactions on Biomedical Engineering, 2021, 68, 2098-2109.	4.2	16
48	Performance and securityâ€enhanced fuzzy vault scheme based on ridge features for distorted fingerprints. IET Biometrics, 2015, 4, 29-39.	2.5	15
49	An immunity-based time series prediction approach and its application for network security situation. Intelligent Service Robotics, 2015, 8, 1-22.	2.6	15
50	Schedule length minimization of parallel applications with energy consumption constraints using heuristics on heterogeneous distributed systems. Concurrency Computation Practice and Experience, 2017, 29, e4024.	2.2	15
51	Scheduling Algorithms of Flat Semi-Dormant Multicontrollers for a Cyber-Physical System. IEEE Transactions on Industrial Informatics, 2017, 13, 1665-1680.	11.3	15
52	Security Enhancement for Real-Time Independent In-Vehicle CAN-FD Messages in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 5244-5253.	6.3	15
53	A DVFS-Weakly Dependent Energy-Efficient Scheduling Approach for Deadline-Constrained Parallel Applications on Heterogeneous Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 2481-2494.	2.7	15
54	Exact WCRT Analysis for Message-Processing Tasks on Gateway-Integrated In-Vehicle CAN Clusters. Transactions on Embedded Computing Systems, 2018, 17, 1-29.	2.9	14

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55	Intrusion Detection for In-vehicle Network by Using Single GAN in Connected Vehicles. Journal of Circuits, Systems and Computers, 2021, 30, 2150007.	1.5	14
56	A fingerprint fuzzy vault scheme using a fast chaff point generation algorithm. , 2013, , .		13
57	An active scheduling policy for automotive cyber-physical systems. Journal of Systems Architecture, 2019, 97, 208-218.	4.3	13
58	WCRT Analysis and Evaluation for Sporadic Message-Processing Tasks in Multicore Automotive Gateways. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 281-294.	2.7	13
59	Execution cost minimization scheduling algorithms for deadline-constrained parallel applications on heterogeneous clouds. Cluster Computing, 2021, 24, 701-715.	5.0	13
60	An Efficient Scheduling Algorithm for Energy Consumption Constrained Parallel Applications on Heterogeneous Distributed Systems. , 2017, , .		12
61	Security-Aware Obfuscated Priority Assignment for CAN FD Messages in Real-Time Parallel Automotive Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4413-4425.	2.7	12
62	Reliability and Confidentiality Co-Verification for Parallel Applications in Distributed Systems. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1353-1368.	5.6	12
63	Toward Effective Reliability Requirement Assurance for Automotive Functional Safety. ACM Transactions on Design Automation of Electronic Systems, 2018, 23, 1-26.	2.6	11
64	Clock-Based Sender Identification and Attack Detection for Automotive CAN Network. IEEE Access, 2021, 9, 2665-2679.	4.2	11
65	Local Expansion and Optimization for Higher-Order Graph Clustering. IEEE Internet of Things Journal, 2019, 6, 8702-8713.	8.7	10
66	Efficient Learning of Healthcare Data from IoT Devices by Edge Convolution Neural Networks. Applied Sciences (Switzerland), 2020, 10, 8934.	2.5	10
67	ASDYS: Dynamic Scheduling Using Active Strategies for Multifunctional Mixed-Criticality Cyber–Physical Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 5175-5184.	11.3	10
68	Worst Case Response Time Analysis for Messages in Controller Area Network with Gateway. IEICE Transactions on Information and Systems, 2013, E96.D, 1467-1477.	0.7	9
69	A low-delay AVB flow scheduling method occupying the guard band in Time-Sensitive Networking. Journal of Systems Architecture, 2022, 129, 102586.	4.3	9
70	New improvement of the Hadoop relevant data locality scheduling algorithm based on LATE. , 2011, , .		8
71	Hyper-heuristic genetic algorithm for solving frequency assignment problem in TD-SCDMA. , 2014, , .		8
72	Energy-Efficient Functional Safety Design Methodology Using ASIL Decomposition for Automotive Cyber-Physical Systems. IEEE Transactions on Reliability, 2024, , 1-23.	4.6	8

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73	A local external coupling matrix solution and dynamic processing in medical cyber-physical cloud systems. Journal of Systems Architecture, 2020, 102, 101678.	4.3	8
74	Unifying explicit and implicit feedback for top-N recommendation. , 2017, , .		7
75	Synchronization Stability Analysis of Medical Cyber-Physical Cloud System Considering Multi-Closed-Loops. Journal of Circuits, Systems and Computers, 2019, 28, 1950198.	1.5	7
76	Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4746-4761.	9.3	7
77	Learning Depth for Scene Reconstruction Using an Encoder-Decoder Model. IEEE Access, 2020, 8, 89300-89317.	4.2	7
78	Price Performance-Driven Hardware Cost Optimization Under Functional Safety Requirement in Large-Scale Heterogeneous Distributed Embedded Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 4485-4497.	7.9	7
79	The Study of Cooperative Obstacle Avoidance Method for MWSN Based on Flocking Control. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	6
80	Energy-efficient recognition of human activity in body sensor networks via compressed classification. International Journal of Distributed Sensor Networks, 2016, 12, 155014771667966.	2,2	6
81	Multiple Relay Selection Based on Game Theory in Cooperative Cognitive Radio Networks. Chinese Journal of Electronics, 2017, 26, 624-633.	1.5	6
82	Optimal power allocation and load balancing for non-dedicated heterogeneous distributed embedded computing systems. Journal of Parallel and Distributed Computing, 2019, 130, 24-36.	4.1	6
83	Resource-Cost-Aware Fault-Tolerant Design Methodology for End-to-End Functional Safety Computation on Automotive Cyber-Physical Systems. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-27.	2.5	6
84	Object Detection Using Multiview CCA-Based Graph Spectral Learning. Journal of Circuits, Systems and Computers, 2020, 29, 2050022.	1.5	6
85	An Energy Trace Compression Method for Differential Power Analysis Attack. IEEE Access, 2020, 8, 89084-89092.	4.2	6
86	Bi-Directional Timing-Power Optimisation on Heterogeneous Multi-Core Architectures. IEEE Transactions on Sustainable Computing, 2021, 6, 572-585.	3.1	6
87	Power Control in Distributed Wireless Sensor Networks Based on Noncooperative Game Theory. International Journal of Distributed Sensor Networks, 2012, 8, 398460.	2.2	5
88	Optimization of Data Allocation on CMP Embedded System with Data Migration. International Journal of Parallel Programming, 2017, 45, 965-981.	1.5	5
89	Message response time analysis for automotive cyber–physicalsystems with uncertain delay: An M/PH/1 queue approach. Performance Evaluation, 2018, 125, 21-47.	1.2	5
90	Partition and Scheduling of the Mixed-Criticality Tasks Based on Probability. IEEE Access, 2019, 7, 87837-87848.	4.2	5

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91	Risk Assessment and Development Cost Optimization in Software Defined Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3675-3686.	8.0	5
92	Deep neural networks with attention mechanism for monocular depth estimation on embedded devices. Future Generation Computer Systems, 2022, 131, 137-150.	7.5	5
93	Lightweight Monocular Depth Estimation on Edge Devices. IEEE Internet of Things Journal, 2022, 9, 16168-16180.	8.7	5
94	Gateway Modeling and Response Time Analysis on CAN Clusters of Automobiles. , 2015, , .		4
95	A novel approach of system design for dialect speech interaction with NAO robot. , 2017, , .		4
96	A variableâ€sized stripe level data layout strategy for HDD/SSD hybrid parallel file systems. Concurrency Computation Practice and Experience, 2017, 29, e4039.	2.2	4
97	JDAS: a software development framework for multidatabases. Software - Practice and Experience, 2018, 48, 366-382.	3.6	4
98	Tensor-Train Fuzzy Deep Computation Model for Citywide Traffic Flow Prediction. IEEE Access, 2019, 7, 120581-120593.	4.2	4
99	Real-Time Depth Estimation with an Optimized Encoder-Decoder Architecture on Embedded Devices., 2019,,.		4
100	Redundancy Minimization and Cost Reduction for Workflows with Reliability Requirements in Cloud-Based Services. IEEE Transactions on Cloud Computing, 2022, 10, 633-647.	4.4	4
101	An Optimized Deep Neural Network for Overhead Contact System Recognition from LiDAR Point Clouds. Remote Sensing, 2021, 13, 4110.	4.0	4
102	On Delay-Fractional-Dependent Stability Criteria for Takagi-Sugeno Fuzzy Systems with Interval Delay. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	3
103	Intellectual property protection for FPGA designs using the public key cryptography. Advances in Mechanical Engineering, 2019, 11, 168781401983683.	1.6	3
104	Safety Enhancement for Real-Time Parallel Applications in Distributed Automotive Embedded Systems: A Stable Stopping Approach. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2067-2080.	5.6	3
105	Efficient DPA side channel countermeasure with MIM capacitors-based current equalizer. Journal of Systems Architecture, 2021, 118, 102146.	4.3	3
106	A Model-Based Method for Enabling Source Mapping and Intrusion Detection on Proprietary Can Bus. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12922-12932.	8.0	3
107	HMCKRAutoEncoder: An Interpretable Deep Learning Framework for Time Series Analysis. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 99-111.	4.6	3
108	Mining multiplex power-law distributions and retweeting patterns on twitter. , 2015, , .		2

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109	Hardware Cost and Energy Consumption Optimization for Safety-Critical Applications on Heterogeneous Distributed Embedded Systems. , 2018, , .		2
110	Multi-Modal Image Fusion via Convolutional Morphological Component Analysis and Guided Filter. Journal of Circuits, Systems and Computers, 2021, 30, 2130003.	1.5	2
111	Correlation Dimension Based Stability Analysis for Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 859-868.	11.3	2
112	Robust Time-Sensitive Networking with Delay Bound Analyses. , 2021, , .		2
113	A Data Parallel Strategy for Aligning Multiple Biological Sequences on Homogeneous Multiprocessor Platform. , $2011, \ldots$		1
114	Efficient data dissemination by crowdsensing in vehicular networks. , 2014, , .		1
115	Task data Optimization allocation with Data Migration. , 2015, , .		1
116	A new memory mapping mechanism for GPGPUs' stencil computation. Computing (Vienna/New York), 2015, 97, 795-812.	4.8	1
117	Improving matrix factorization recommendations for problems in big data. , 2017, , .		1
118	Human-Interaction-aware Adaptive Functional Safety Processing for Multi-Functional Automotive Cyber-Physical Systems. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-25.	2.5	1
119	CTFTP: A Test Case Generation Strategy for General Boolean Expressions Based on Ordered Binary Label-Driven Petri Nets. IEEE Access, 2020, 8, 174516-174529.	4.2	1
120	Carry-Out Interference Optimization in WCRT Analysis for Global Fixed-Priority Multiprocessor Scheduling. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 478-491.	2.7	1
121	Security-Aware CAN-FD Message Packing in Intelligent Automotive Cyber–Physical Systems. IEEE Internet of Things Journal, 2022, 9, 22343-22356.	8.7	1
122	Obfuscated Priority Assignment to CAN-FD Messages with Dependencies: A Swapping-based and Affix-Matching Approach. , 2021, , .		1
123	Research on GPS satellite pseudo-range single point positioning algorithm., 2021,,.		1
124	Reliability Modeling and Assessment for a Cyber-Physical System With a Complex Boundary Behavior. IEEE Transactions on Reliability, 2023, 72, 224-239.	4.6	1
125	Log analysis for embedded real-time operating system based on state machine. , 2011, , .		0
126	A variable-latency floating-point division in association with predicted quotient and fixed remainder. , 2013, , .		0

#	Article	IF	Citations
127	Accurate detection of moving regions via a nested model. , 2014, , .		О
128	Modeling the information propagation in an email communication network using an agent-based approach. , 2014, , .		0
129	Household load scheduling under consideration of appliance characteristics and comfort level. , 2014, , .		0
130	Effective Part Localization in Latent-SVM Training. , 2014, , .		0
131	Modelling visual attention towards embodiment cognition on a reconfigurable and programmable system. , $2015, \ldots$		0
132	An adaptive mechanism for reducing criticality level in mixed-criticality systems. , 2015, , .		0
133	Pinyin-Senses Input Method for Semantic Document Exchange in E-Business. , 2016, , .		0
134	An ALM matrix completion algorithm for recovering weather monitoring data. , 2016, , .		0
135	The "Chain Mode and Reverse Improving―Teaching Mechanism for the "Internet of Things―Major in Hunan University. , 2018, , .		0
136	Energy-Efficient Real-Time Scheduling. , 2019, , 13-70.		0
137	Reliability-Aware Fault-Tolerant Scheduling. , 2019, , 71-145.		0
138	Improving Compression Ratios for Code-Based Test Pattern Compressions through Column-Wise Reordering Algorithms. Journal of Circuits, Systems and Computers, 2020, , 2150108.	1.5	0
139	Reconciling Earlier Snapshot Time with Local Cache for Optimal Performance under Transactional Causal Consistency. IEEE Transactions on Services Computing, 2021, , 1-1.	4.6	0
140	Cluster-Based CAN-FD Frame Packing Framework Optimization Using Two Strategies. IEEE Transactions on Vehicular Technology, 2021, 70, 4784-4795.	6.3	0
141	Optimized Monocular Depth Estimation With Reparameterization on Embedded Devices., 2021,,.		0