

Howon Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

453
citations

12
h-index

20
g-index

48
ext. papers

612
ext. citations

2.8
avg, IF

4.5
L-index

#	Paper	IF	Citations
35	Classification and Explanation for Intrusion Detection System Based on Ensemble Trees and SHAP Method.. <i>Sensors</i> , 2022 , 22,	3.8	5
34	AnyTRNG: Generic, High-Throughput, Low-Area True Random Number Generator Based on Synchronous Edge Sampling. <i>Lecture Notes in Computer Science</i> , 2021 , 157-168	0.9	
33	Quantum Cryptanalysis Landscape of Shor's Algorithm for Elliptic Curve Discrete Logarithm Problem. <i>Lecture Notes in Computer Science</i> , 2021 , 91-104	0.9	0
32	Quantum Circuit Design of Toom 3-Way Multiplication. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3752	2.6	1
31	High-Speed and Unified ECC Processor for Generic Weierstrass Curves over GF() on FPGA. <i>Sensors</i> , 2021 , 21,	3.8	4
30	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3252-3264	10.7	16
29	Robust Adversarial Attack Against Explainable Deep Classification Models Based on Adversarial Images With Different Patch Sizes and Perturbation Ratios. <i>IEEE Access</i> , 2021 , 1-1	3.5	1
28	Background Load Denoising across Complex Load Based on Generative Adversarial Network to Enhance Load Identification. <i>Sensors</i> , 2020 , 20,	3.8	8
27	Household Appliance Classification Using Lower Odd-Numbered Harmonics and the Bagging Decision Tree. <i>IEEE Access</i> , 2020 , 8, 55937-55952	3.5	27
26	Spatially Localized Perturbation GAN (SLP-GAN) for Generating Invisible Adversarial Patches. <i>Lecture Notes in Computer Science</i> , 2020 , 3-15	0.9	
25	Efficient Software Implementation of Ring-LWE Encryption on IoT Processors. <i>IEEE Transactions on Computers</i> , 2020 , 69, 1424-1433	2.5	13
24	The Impact of PCA-Scale Improving GRU Performance for Intrusion Detection 2019 ,		3
23	Parallel Implementations of CHAM. <i>Lecture Notes in Computer Science</i> , 2019 , 93-104	0.9	
22	Network Intrusion Detection Based on Novel Feature Selection Model and Various Recurrent Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1392	2.6	34
21	Memory-Efficient Implementation of Elliptic Curve Cryptography for the Internet-of-Things. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2019 , 16, 521-529	3.9	14
20	Secure GCM implementation on AVR. <i>Discrete Applied Mathematics</i> , 2018 , 241, 58-66	1	5
19	An Effective Classification for DoS Attacks in Wireless Sensor Networks 2018 ,		7

18	Secure Data Encryption for Cloud-Based Human Care Services. <i>Journal of Sensors</i> , 2018 , 2018, 1-10	2	5
17	Lightweight Fault Attack Resistance in Software Using Intra-instruction Redundancy, Revisited. <i>Lecture Notes in Computer Science</i> , 2018 , 3-15	0.9	2
16	Secure Number Theoretic Transform and Speed Record for Ring-LWE Encryption on Embedded Processors. <i>Lecture Notes in Computer Science</i> , 2018 , 175-188	0.9	1
15	Non-Intrusive Load Monitoring Based on Novel Transient Signal in Household Appliances with Low Sampling Rate. <i>Energies</i> , 2018 , 11, 3409	3.1	31
14	Efficient Parallel Implementation of Matrix Multiplication for Lattice-Based Cryptography on Modern ARM Processor. <i>Security and Communication Networks</i> , 2018 , 2018, 1-10	1.9	3
13	An Effective Intrusion Detection Classifier Using Long Short-Term Memory with Gradient Descent Optimization 2017 ,		34
12	Optimized implementation of chaskey MAC on 16-bit MSP430 2017 ,		2
11	Compact GCM implementations on 32-bit ARMv7-A processors 2017 ,		1
10	Nonintrusive Load Monitoring Based on Advanced Deep Learning and Novel Signature. <i>Computational Intelligence and Neuroscience</i> , 2017 , 2017, 4216281	3	73
9	Parallel Implementations of SIMON and SPECK 2016 ,		11
8	Efficient Implementation of NIST-Compliant Elliptic Curve Cryptography for 8-bit AVR-Based Sensor Nodes. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 1385-1397	8	47
7	Classification performance using gated recurrent unit recurrent neural network on energy disaggregation 2016 ,		16
6	Efficient arithmetic on ARM-NEON and its application for high-speed RSA implementation. <i>Security and Communication Networks</i> , 2016 , 9, 5401-5411	1.9	10
5	A Synthesis of Multi-Precision Multiplication and Squaring Techniques for 8-Bit Sensor Nodes: State-of-the-Art Research and Future Challenges. <i>Journal of Computer Science and Technology</i> , 2016 , 31, 284-299	1.7	6
4	Pseudo random number generator and Hash function for embedded microprocessors 2014 ,		9
3	Efficient hardware implementation of the lightweight block encryption algorithm LEA. <i>Sensors</i> , 2014 , 14, 975-94	3.8	35
2	Mobile Platform for Networked RFID Applications 2010 ,		13
1	Improved Computation of Square Roots in Specific Finite Fields. <i>IEEE Transactions on Computers</i> , 2009 , 58, 188-196	2.5	10

