Howon Kim

List of Publications by Citations

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	Nonintrusive Load Monitoring Based on Advanced Deep Learning and Novel Signature. *Computational Intelligence and Neuroscience*, **2017**, 2017, 4216281	3	73
34	Efficient Implementation of NIST-Compliant Elliptic Curve Cryptography for 8-bit AVR-Based Sensor Nodes. *IEEE Transactions on Information Forensics and Security*, **2016**, 11, 1385-1397	8	47
33	Efficient hardware implementation of the lightweight block encryption algorithm LEA. *Sensors*, **2014**, 14, 975-94	3.8	35
32	An Effective Intrusion Detection Classifier Using Long Short-Term Memory with Gradient Descent Optimization **2017**,		34
31	Network Intrusion Detection Based on Novel Feature Selection Model and Various Recurrent Neural Networks. *Applied Sciences (Switzerland)*, **2019**, 9, 1392	2.6	34
30	Non-Intrusive Load Monitoring Based on Novel Transient Signal in Household Appliances with Low Sampling Rate. *Energies*, **2018**, 11, 3409	3.1	31
29	Household Appliance Classification Using Lower Odd-Numbered Harmonics and the Bagging Decision Tree. *IEEE Access*, **2020**, 8, 55937-55952	3.5	27
28	Classification performance using gated recurrent unit recurrent neural network on energy disaggregation **2016**,		16
27	. *IEEE Transactions on Smart Grid*, **2021**, 12, 3252-3264	10.7	16
26	Memory-Efficient Implementation of Elliptic Curve Cryptography for the Internet-of-Things. *IEEE Transactions on Dependable and Secure Computing*, **2019**, 16, 521-529	3.9	14
25	Mobile Platform for Networked RFID Applications **2010**,		13
24	Efficient Software Implementation of Ring-LWE Encryption on IoT Processors. *IEEE Transactions on Computers*, **2020**, 69, 1424-1433	2.5	13
23	Parallel Implementations of SIMON and SPECK **2016**,		11
22	Improved Computation of Square Roots in Specific Finite Fields. *IEEE Transactions on Computers*, **2009**, 58, 188-196	2.5	10
21	Efficient arithmetic on ARM-NEON and its application for high-speed RSA implementation. *Security and Communication Networks*, **2016**, 9, 5401-5411	1.9	10
20	Pseudo random number generator and Hash function for embedded microprocessors **2014**,		9
19	Background Load Denoising across Complex Load Based on Generative Adversarial Network to Enhance Load Identification. *Sensors*, **2020**, 20,	3.8	8

#	Title	Impact	Citations
18	An Effective Classification for DoS Attacks in Wireless Sensor Networks **2018**,		7
17	A Synthesis of Multi-Precision Multiplication and Squaring Techniques for 8-Bit Sensor Nodes: State-of-the-Art Research and Future Challenges. *Journal of Computer Science and Technology*, **2016**, 31, 284-299	1.7	6
16	Secure GCM implementation on AVR. *Discrete Applied Mathematics*, **2018**, 241, 58-66	1	5
15	Secure Data Encryption for Cloud-Based Human Care Services. *Journal of Sensors*, **2018**, 2018, 1-10	2	5
14	Classification and Explanation for Intrusion Detection System Based on Ensemble Trees and SHAP Method.. *Sensors*, **2022**, 22,	3.8	5
13	High-Speed and Unified ECC Processor for Generic Weierstrass Curves over GF() on FPGA. *Sensors*, **2021**, 21,	3.8	4
12	The Impact of PCA-Scale Improving GRU Performance for Intrusion Detection **2019**,		3
11	Efficient Parallel Implementation of Matrix Multiplication for Lattice-Based Cryptography on Modern ARM Processor. *Security and Communication Networks*, **2018**, 2018, 1-10	1.9	3
10	Optimized implementation of chaskey MAC on 16-bit MSP430 **2017**,		2
9	Lightweight Fault Attack Resistance in Software Using Intra-instruction Redundancy, Revisited. *Lecture Notes in Computer Science*, **2018**, 3-15	0.9	2
8	Compact GCM implementations on 32-bit ARMv7-A processors **2017**,		1
7	Secure Number Theoretic Transform and Speed Record for Ring-LWE Encryption on Embedded Processors. *Lecture Notes in Computer Science*, **2018**, 175-188	0.9	1
6	Quantum Circuit Design of Toom 3-Way Multiplication. *Applied Sciences (Switzerland)*, **2021**, 11, 3752	2.6	1
5	Robust Adversarial Attack Against Explainable Deep Classification Models Based on Adversarial Images With Different Patch Sizes and Perturbation Ratios. *IEEE Access*, **2021**, 1-1	3.5	1
4	Quantum Cryptanalysis Landscape of Shor's Algorithm for Elliptic Curve Discrete Logarithm Problem. *Lecture Notes in Computer Science*, **2021**, 91-104	0.9	0
3	Parallel Implementations of CHAM. *Lecture Notes in Computer Science*, **2019**, 93-104	0.9	
2	AnyTRNG: Generic, High-Throughput, Low-Area True Random Number Generator Based on Synchronous Edge Sampling. *Lecture Notes in Computer Science*, **2021**, 157-168	0.9	
1	Spatially Localized Perturbation GAN (SLP-GAN) for Generating Invisible Adversarial Patches. *Lecture Notes in Computer Science*, **2020**, 3-15	0.9	