

Takaaki Mizuki

List of Publications by Citations

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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.

125
papers

1,272
citations

21
h-index

29
g-index

136
ext. papers

1,382
ext. citations

0.8
avg, IF

5.53
L-index

#	Paper	IF	Citations
125	Six-Card Secure AND and Four-Card Secure XOR. <i>Lecture Notes in Computer Science</i> , 2009 , 358-369	0.9	83
124	A formalization of card-based cryptographic protocols via abstract machine. <i>International Journal of Information Security</i> , 2014 , 13, 15-23	2.8	61
123	The Five-Card Trick Can Be Done with Four Cards. <i>Lecture Notes in Computer Science</i> , 2012 , 598-606	0.9	55
122	Analysis of Electromagnetic Information Leakage From Cryptographic Devices With Different Physical Structures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 571-580	2	39
121	Efficient Card-Based Protocols for Generating a Hidden Random Permutation Without Fixed Points. <i>Lecture Notes in Computer Science</i> , 2015 , 215-226	0.9	39
120	Computational Model of Card-Based Cryptographic Protocols and Its Applications. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2017 , E100.A, 3-11	0.4	38
119	Voting with a Logarithmic Number of Cards. <i>Lecture Notes in Computer Science</i> , 2013 , 162-173	0.9	38
118	Card-Based Protocols for Any Boolean Function. <i>Lecture Notes in Computer Science</i> , 2015 , 110-121	0.9	33
117	Efficient card-based zero-knowledge proof for Sudoku. <i>Theoretical Computer Science</i> , 2020 , 839, 135-142	1.1	32
116	Physical Zero-Knowledge Proof for Makaro. <i>Lecture Notes in Computer Science</i> , 2018 , 111-125	0.9	29
115	The Minimum Number of Cards in Practical Card-Based Protocols. <i>Lecture Notes in Computer Science</i> , 2017 , 126-155	0.9	28
114	How to Implement a Random Bisection Cut. <i>Lecture Notes in Computer Science</i> , 2016 , 58-69	0.9	28
113	Securely Computing the Three-Input Majority Function with Eight Cards. <i>Lecture Notes in Computer Science</i> , 2013 , 193-204	0.9	27
112	Card-based protocols for securely computing the conjunction of multiple variables. <i>Theoretical Computer Science</i> , 2016 , 622, 34-44	1.1	26
111	Interactive Physical Zero-Knowledge Proof for Norinori. <i>Lecture Notes in Computer Science</i> , 2019 , 166-173	0.9	26
110	Practical card-based implementations of Yao's millionaire protocol. <i>Theoretical Computer Science</i> , 2020 , 803, 207-221	1.1	25
109	Efficient Evaluation of EM Radiation Associated With Information Leakage From Cryptographic Devices. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 555-563	2	24

108	Card-Based Physical Zero-Knowledge Proof for Kakuro. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2019 , E102.A, 1072-1078	0.4	24
107	Practical Card-Based Cryptography. <i>Lecture Notes in Computer Science</i> , 2014 , 313-324	0.9	24
106	Card-based protocols using unequal division shuffles. <i>Soft Computing</i> , 2018 , 22, 361-371	3.5	21
105	Secure implementations of a random bisection cut. <i>International Journal of Information Security</i> , 2020 , 19, 445-452	2.8	21
104	Securely Computing Three-Input Functions with Eight Cards. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2015 , E98.A, 1145-1152	0.4	19
103	Five-Card AND Protocol in Committed Format Using Only Practical Shuffles 2018 ,		19
102	Non-invasive EMI-based fault injection attack against cryptographic modules 2011 ,		18
101	Efficient and Secure Multiparty Computations Using a Standard Deck of Playing Cards. <i>Lecture Notes in Computer Science</i> , 2016 , 484-499	0.9	18
100	Card-Based Protocols Using Regular Polygon Cards. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2017 , E100.A, 1900-1909	0.4	17
99	Pile-Shifting Scramble for Card-Based Protocols. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018 , E101.A, 1494-1502	0.4	17
98	Multi-party Computation with Small Shuffle Complexity Using Regular Polygon Cards. <i>Lecture Notes in Computer Science</i> , 2015 , 127-146	0.9	17
97	Physical Zero-Knowledge Proof for Suguru Puzzle. <i>Lecture Notes in Computer Science</i> , 2020 , 235-247	0.9	15
96	How to construct physical zero-knowledge proofs for puzzles with a single loop condition. <i>Theoretical Computer Science</i> , 2021 , 888, 41-55	1.1	15
95	Card-based protocols for secure ranking computations. <i>Theoretical Computer Science</i> , 2020 , 845, 122-135	1.1	14
94	Five-Card Secure Computations Using Unequal Division Shuffle. <i>Lecture Notes in Computer Science</i> , 2015 , 109-120	0.9	14
93	A Physical ZKP for Slitherlink: How to Perform Physical Topology-Preserving Computation. <i>Lecture Notes in Computer Science</i> , 2019 , 135-151	0.9	14
92	Interactive Physical ZKP for Connectivity: Applications to Nurikabe and Hitori. <i>Lecture Notes in Computer Science</i> , 2021 , 373-384	0.9	14
91	Five-Card AND Computations in Committed Format Using Only Uniform Cyclic Shuffles. <i>New Generation Computing</i> , 2021 , 39, 97-114	0.9	13

90	Transient IEMI Threats for Cryptographic Devices. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 140-148	2	11
89	Six-Card Finite-Runtime XOR Protocol with Only Random Cut 2020 ,		10
88	The Six-Card Trick: Secure Computation of Three-Input Equality. <i>Lecture Notes in Computer Science</i> , 2019 , 123-131	0.9	10
87	Necessary and Sufficient Numbers of Cards for Securely Computing Two-Bit Output Functions. <i>Lecture Notes in Computer Science</i> , 2017 , 193-211	0.9	10
86	Mechanism behind Information Leakage in Electromagnetic Analysis of Cryptographic Modules. <i>Lecture Notes in Computer Science</i> , 2009 , 66-78	0.9	10
85	An Implementation of Non-Uniform Shuffle for Secure Multi-Party Computation 2016 ,		10
84	Analysis of Information Leakage Due to Operative Errors in Card-Based Protocols. <i>Lecture Notes in Computer Science</i> , 2018 , 250-262	0.9	9
83	A Secure Three-Input AND Protocol with a Standard Deck of Minimal Cards. <i>Lecture Notes in Computer Science</i> , 2021 , 242-256	0.9	9
82	Physical zero-knowledge proof and NP-completeness proof of Suguru puzzle. <i>Information and Computation</i> , 2021 , 104858	0.8	9
81	Secure Computation of Any Boolean Function Based on Any Deck of Cards. <i>Lecture Notes in Computer Science</i> , 2019 , 63-75	0.9	8
80	Card-Based ZKP for Connectivity: Applications to Nurikabe, Hitori, and Heyawake. <i>New Generation Computing</i> , 1	0.9	8
79	Secure Multi-Party Computation Using Polarizing Cards. <i>Lecture Notes in Computer Science</i> , 2015 , 281-297.	0.9	7
78	Characterization of optimal key set protocols. <i>Discrete Applied Mathematics</i> , 2003 , 131, 213-236	1	7
77	Zero-Knowledge Proof Protocol for Cryptarithmic Using Dihedral Cards. <i>Lecture Notes in Computer Science</i> , 2021 , 51-67	0.9	7
76	Secure Multiparty Computations Using the 15 Puzzle. <i>Lecture Notes in Computer Science</i> , 2007 , 255-266	0.9	7
75	New Card-based Copy Protocols Using Only Random Cuts 2021 ,		7
74	Secure Computation Protocols Using Polarizing Cards. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2016 , E99.A, 1122-1131	0.4	7
73	A complete characterization of a family of key exchange protocols. <i>International Journal of Information Security</i> , 2002 , 1, 131-142	2.8	6

72	Card-Based Protocol Against Actively Revealing Card Attack. <i>Lecture Notes in Computer Science</i> , 2019 , 95-106	0.9	6
71	Efficient Generation of a Card-Based Uniformly Distributed Random Derangement. <i>Lecture Notes in Computer Science</i> , 2021 , 78-89	0.9	6
70	Card-Based Covert Lottery. <i>Lecture Notes in Computer Science</i> , 2021 , 257-270	0.9	6
69	Analysis of Electromagnetic Radiation from Transmission Line with Loose Contact of Connector. <i>IEICE Transactions on Electronics</i> , 2011 , E94-C, 1427-1430	0.4	5
68	On contact conditions in connectors to cause Common Mode radiation 2008 ,		5
67	AN APPLICATION OF ESOP EXPRESSIONS TO SECURE COMPUTATIONS. <i>Journal of Circuits, Systems and Computers</i> , 2007 , 16, 191-198	0.9	5
66	Mechanism of Increase in Inductance at Loosened Connector Contact Boundary. <i>IEICE Transactions on Electronics</i> , 2012 , E95.C, 1502-1507	0.4	5
65	A Card-Minimal Three-Input AND Protocol Using Two Shuffles. <i>Lecture Notes in Computer Science</i> , 2021 , 668-679	0.9	5
64	Card-Based Secure Ranking Computations. <i>Lecture Notes in Computer Science</i> , 2019 , 461-472	0.9	5
63	Secure Multiparty Computations Using a Dial Lock 2007 , 499-510		5
62	Evaluation of Information Leakage from Cryptographic Hardware via Common-Mode Current. <i>IEICE Transactions on Electronics</i> , 2012 , E95.C, 1089-1097	0.4	5
61	Cooking Cryptographers: Secure Multiparty Computation Based on Balls and Bags 2021 ,		5
60	Actively revealing card attack on card-based protocols. <i>Natural Computing</i> ,1	1.3	5
59	Dealing Necessary and Sufficient Numbers of Cards for Sharing a One-Bit Secret Key (Extended Abstract). <i>Lecture Notes in Computer Science</i> , 1999 , 389-401	0.9	5
58	Suppression of information leakage from electronic devices based on SNR 2011 ,		4
57	Another Use of the Five-Card Trick: Card-Minimal Secure Three-Input Majority Function Evaluation. <i>Lecture Notes in Computer Science</i> , 2021 , 536-555	0.9	4
56	Practical and Easy-to-Understand Card-Based Implementation of Yao's Millionaire Protocol. <i>Lecture Notes in Computer Science</i> , 2018 , 246-261	0.9	4
55	Analyzing Execution Time of Card-Based Protocols. <i>Lecture Notes in Computer Science</i> , 2018 , 145-158	0.9	4

54	Preface: Special Issue on Card-Based Cryptography. <i>New Generation Computing</i> , 2021 , 39, 1-2	0.9	4
53	Physical authentication using side-channel information 2016 ,		4
52	Precisely timed IEMI fault injection synchronized with EM information leakage 2014 ,		3
51	Evaluation of Resistance and Inductance of Loose Connector Contact. <i>IEICE Transactions on Electronics</i> , 2013 , E96.C, 1148-1150	0.4	3
50	Modeling connector contact condition using a contact failure model with equivalent inductance 2010 ,		3
49	AN APPLICATION OF ST-NUMBERING TO SECRET KEY AGREEMENT. <i>International Journal of Foundations of Computer Science</i> , 2011 , 22, 1211-1227	0.6	3
48	How to Implement a Non-uniform or Non-closed Shuffle. <i>Lecture Notes in Computer Science</i> , 2020 , 107-118	0.9	3
47	Card-Based Zero-Knowledge Proof Protocols for Graph Problems and Their Computational Model. <i>Lecture Notes in Computer Science</i> , 2021 , 136-152	0.9	3
46	Public-PEZ Cryptography. <i>Lecture Notes in Computer Science</i> , 2020 , 59-74	0.9	3
45	Fundamental Study on Mechanism of Electromagnetic Field Radiation from Electric Devices with Loose Contact of Connector. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012 , 132, 373-378	0.2	3
44	A study on an Effective Evaluation Method for EM Information Leakage without Reconstructing Screen 2019 ,		3
43	Evaluating card-based protocols in terms of execution time. <i>International Journal of Information Security</i> , 2021 , 20, 729-740	2.8	3
42	Eulerian Secret Key Exchange. <i>Lecture Notes in Computer Science</i> , 1998 , 349-360	0.9	3
41	Method for estimating fault injection time on cryptographic devices from EM leakage 2015 ,		2
40	Map-based analysis of IEMI fault injection into cryptographic devices 2013 ,		2
39	Contact Conditions in Connectors that Cause Common Mode Radiation. <i>IEICE Transactions on Electronics</i> , 2011 , E94-C, 1369-1374	0.4	2
38	Information leakage from cryptographic hardware via common-mode current 2010 ,		2
37	A one-round secure message broadcasting protocol through a key sharing tree. <i>Information Processing Letters</i> , 2009 , 109, 842-845	0.8	2

36	Efficient mapping of EM radiation associated with information leakage for cryptographic devices 2012 ,		2
35	Necessary and Sufficient Numbers of Cards for the Transformation Protocol. <i>Lecture Notes in Computer Science</i> , 2004 , 92-101	0.9	2
34	Multi-party Computation Based on Physical Coins. <i>Lecture Notes in Computer Science</i> , 2018 , 87-98	0.9	2
33	Light Cryptography. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 89-101	0.5	2
32	Committed-format AND protocol using only random cuts. <i>Natural Computing</i> ,1	1.3	2
31	Coin-based Secure Computations. <i>International Journal of Information Security</i> ,1	2.8	2
30	Information Leakage Due to Operative Errors in Card-based Protocols. <i>Information and Computation</i> , 2022 , 104910	0.8	2
29	Information Leakage Threats for Cryptographic Devices Using IEMI and EM Emission. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 1340-1347	2	1
28	Secure Multi-Party Computations Using a Deck of Cards. <i>Ieice Ess Fundamentals Review</i> , 2016 , 9, 179-187	0.1	1
27	Fundamental study on randomized processing in cryptographic IC using variable clock against Correlation Power Analysis 2015 ,		1
26	Basic Study on the Method for Real-Time Video Streaming with Low Latency and High Bandwidth Efficiency 2015 ,		1
25	Minimizing ESCT forms for two-variable multiple-valued input binary output functions. <i>Discrete Applied Mathematics</i> , 2014 , 169, 186-194	1	1
24	Investigation on the effect of parasitic inductance at connector contact boundary on electromagnetic radiation 2012 ,		1
23	ABSOLUTELY SECURE MESSAGE TRANSMISSION USING A KEY SHARING GRAPH. <i>Discrete Mathematics, Algorithms and Applications</i> , 2012 , 04, 1250053	0.5	1
22	A Revised Transformation Protocol for Unconditionally Secure Secret Key Exchange. <i>Theory of Computing Systems</i> , 2008 , 42, 187-221	0.6	1
21	Best Security Index for Digital Fingerprinting. <i>Lecture Notes in Computer Science</i> , 2005 , 398-412	0.9	1
20	Secure Computations in a Minimal Model Using Multiple-Valued ESOP Expressions. <i>Lecture Notes in Computer Science</i> , 2006 , 547-554	0.9	1
19	Quantitative Evaluation of Inductance at the Coaxial Connector Contact Failure Portion. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2016 , 136, 347-352	0.2	1

18	Study on Information Leakage of Input Key due to Frequency Fluctuation of RC Oscillator in Keyboard. <i>IEICE Transactions on Communications</i> , 2013 , E96.B, 2633-2638	0.5	1
17	Investigation of Noise Interference due to Connector Contact Failure in a Coaxial Cable. <i>IEICE Transactions on Electronics</i> , 2014 , E97.C, 900-903	0.4	1
16	Efficient Electromagnetic Analysis for Cryptographic Module on the Frequency Domain. <i>Electronics and Communications in Japan</i> , 2016 , 99, 24-32	0.4	1
15	Influence of PCB and attached line of hardware on electromagnetic (EM) information leakage. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2013 , 182, 1-9	0.4	
14	Sharing secret keys along a Eulerian circuit. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2000 , 83, 33-42		
13	Characterization of Optimal Key Set Protocols. <i>Lecture Notes in Computer Science</i> , 2000 , 273-285	0.9	
12	Necessary and Sufficient Numbers of Cards for Sharing Secret Keys on Hierarchical Groups. <i>Lecture Notes in Computer Science</i> , 2001 , 196-207	0.9	
11	Worst-Case Optimal Fingerprinting Codes for Non-threshold Collusion. <i>Lecture Notes in Computer Science</i> , 2006 , 203-216	0.9	
10	Secret Key Amplification from Uniformly Leaked Key Exchange Complete Graph. <i>Lecture Notes in Computer Science</i> , 2018 , 20-31	0.9	
9	Fundamental Study on a Mechanism of Faulty Outputs from Cryptographic Modules due to IEMI. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2015 , 135, 276-281	0.2	
8	Efficient Electromagnetic Analysis for Cryptographic Module on the Frequency Domain. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2015 , 135, 515-521	0.2	
7	Minimizing AND-EXOR Expressions for Multiple-Valued Two-Input Logic Functions. <i>Lecture Notes in Computer Science</i> , 2009 , 301-310	0.9	
6	Influence of PCB and Attached Line of Hardware on Electromagnetic (EM) Information Leakage. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012 , 132, 173-179	0.2	
5	Analysis of Magnetic Field Distribution around Connector with Contact Failure. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012 , 132, 417-420	0.2	
4	Recent Research Trends in Side Channel Attack on Cryptographic Modules and its Countermeasure. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012 , 132, 9-12	0.2	
3	Effect of Contact Failure of Connector in Electronic Control Units on Radiated Emissions. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012 , 132, 456-457	0.2	
2	Effect of Connector Contact Points on Common-Mode Current on a Coaxial Transmission Line. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2013 , 133, 273-277	0.2	
1	Fundamental Study on a Mechanism of Faulty Outputs from Cryptographic Modules Due to IEMI. <i>Electronics and Communications in Japan</i> , 2016 , 99, 72-78	0.4	

