Takaaki Mizuki

List of Publications by Year in descending order

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| | | 257429 | 361001 |
|----------|----------------|--------------|----------------|
| 130 | 1,691 | 24 | 35 |
| papers | citations | h-index | g-index |
| | | | |
| | | | |
| 136 | 136 | 136 | 183 |
| 130 | 130 | 130 | 103 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Six-Card Secure AND and Four-Card Secure XOR. Lecture Notes in Computer Science, 2009, , 358-369. | 1.3 | 102 |
| 2 | A formalization of card-based cryptographic protocols via abstract machine. International Journal of Information Security, 2014, 13, 15-23. | 3.4 | 74 |
| 3 | The Five-Card Trick Can Be Done with Four Cards. Lecture Notes in Computer Science, 2012, , 598-606. | 1.3 | 63 |
| 4 | Analysis of Electromagnetic Information Leakage From Cryptographic Devices With Different Physical Structures. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 571-580. | 2.2 | 52 |
| 5 | Efficient Card-Based Protocols for Generating a Hidden Random Permutation Without Fixed Points. Lecture Notes in Computer Science, 2015, , 215-226. | 1.3 | 51 |
| 6 | Efficient card-based zero-knowledge proof for Sudoku. Theoretical Computer Science, 2020, 839, 135-142. | 0.9 | 45 |
| 7 | Computational Model of Card-Based Cryptographic Protocols and Its Applications. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 3-11. | 0.3 | 44 |
| 8 | Card-Based Protocols for Any Boolean Function. Lecture Notes in Computer Science, 2015, , 110-121. | 1.3 | 42 |
| 9 | Voting with a Logarithmic Number of Cards. Lecture Notes in Computer Science, 2013, , 162-173. | 1.3 | 42 |
| 10 | Physical Zero-Knowledge Proof for Makaro. Lecture Notes in Computer Science, 2018, , 111-125. | 1.3 | 39 |
| 11 | Secure implementations of a random bisection cut. International Journal of Information Security, 2020, 19, 445-452. | 3.4 | 34 |
| 12 | Practical card-based implementations of Yao's millionaire protocol. Theoretical Computer Science, 2020, 803, 207-221. | 0.9 | 34 |
| 13 | Interactive Physical Zero-Knowledge Proof for Norinori. Lecture Notes in Computer Science, 2019, , 166-177. | 1.3 | 34 |
| 14 | Card-Based Physical Zero-Knowledge Proof for Kakuro. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 1072-1078. | 0.3 | 34 |
| 15 | The Minimum Number of Cards in Practical Card-Based Protocols. Lecture Notes in Computer Science, 2017, , 126-155. | 1.3 | 33 |
| 16 | Practical Card-Based Cryptography. Lecture Notes in Computer Science, 2014, , 313-324. | 1.3 | 32 |
| 17 | Card-based protocols for securely computing the conjunction of multiple variables. Theoretical Computer Science, 2016, 622, 34-44. | 0.9 | 31 |
| 18 | How to Implement a Random Bisection Cut. Lecture Notes in Computer Science, 2016, , 58-69. | 1.3 | 31 |

| # | Article | IF | Citations |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Efficient Evaluation of EM Radiation Associated With Information Leakage From Cryptographic Devices. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 555-563. | 2.2 | 30 |
| 20 | Securely Computing the Three-Input Majority Function with Eight Cards. Lecture Notes in Computer Science, 2013, , 193-204. | 1.3 | 30 |
| 21 | Card-Based Protocols Using Regular Polygon Cards. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1900-1909. | 0.3 | 29 |
| 22 | Card-based protocols using unequal division shuffles. Soft Computing, 2018, 22, 361-371. | 3.6 | 26 |
| 23 | How to construct physical zero-knowledge proofs for puzzles with a "single loop―condition. Theoretical Computer Science, 2021, 888, 41-55. | 0.9 | 26 |
| 24 | Non-invasive EMI-based fault injection attack against cryptographic modules. , 2011, , . | | 25 |
| 25 | Transient IEMI Threats for Cryptographic Devices. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 140-148. | 2.2 | 25 |
| 26 | Pile-Shifting Scramble for Card-Based Protocols. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1494-1502. | 0.3 | 23 |
| 27 | Multi-party Computation with Small Shuffle Complexity Using Regular Polygon Cards. Lecture Notes in Computer Science, 2015, , 127-146. | 1.3 | 21 |
| 28 | Efficient and Secure Multiparty Computations Using a Standard Deck of Playing Cards. Lecture Notes in Computer Science, 2016, , 484-499. | 1.3 | 21 |
| 29 | Securely Computing Three-Input Functions with Eight Cards. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1145-1152. | 0.3 | 21 |
| 30 | Five-Card AND Protocol in Committed Format Using Only Practical Shuffles. , 2018, , . | | 20 |
| 31 | Physical zero-knowledge proof and NP-completeness proof of Suguru puzzle. Information and Computation, 2022, 285, 104858. | 0.7 | 20 |
| 32 | Card-based protocols for secure ranking computations. Theoretical Computer Science, 2020, 845, 122-135. | 0.9 | 19 |
| 33 | Card-Based ZKP for Connectivity: Applications to Nurikabe, Hitori, and Heyawake. New Generation Computing, 2022, 40, 149-171. | 3.3 | 18 |
| 34 | Five-Card AND Computations in Committed Format Using Only Uniform Cyclic Shuffles. New Generation Computing, 2021, 39, 97-114. | 3.3 | 17 |
| 35 | A Physical ZKP for Slitherlink: How to Perform Physical Topology-Preserving Computation. Lecture Notes in Computer Science, 2019, , 135-151. | 1.3 | 17 |
| 36 | Five-Card Secure Computations Using Unequal Division Shuffle. Lecture Notes in Computer Science, 2015, , 109-120. | 1.3 | 16 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | The Six-Card Trick: Secure Computation of Three-Input Equality. Lecture Notes in Computer Science, 2019, , 123-131. | 1.3 | 16 |
| 38 | Mechanism behind Information Leakage in Electromagnetic Analysis of Cryptographic Modules. Lecture Notes in Computer Science, 2009, , 66-78. | 1.3 | 15 |
| 39 | An Implementation of Non-Uniform Shuffle for Secure Multi-Party Computation. , 2016, , . | | 12 |
| 40 | A Secure Three-Input AND Protocol withÂaÂStandard Deck of Minimal Cards. Lecture Notes in Computer Science, 2021, , 242-256. | 1.3 | 12 |
| 41 | Six-Card Finite-Runtime XOR Protocol with Only Random Cut. , 2020, , . | | 12 |
| 42 | New Card-based Copy Protocols Using Only Random Cuts., 2021,,. | | 11 |
| 43 | Necessary and Sufficient Numbers of Cards for Securely Computing Two-Bit Output Functions. Lecture Notes in Computer Science, 2017, , 193-211. | 1.3 | 11 |
| 44 | Zero-Knowledge Proof Protocol forÂCryptarithmetic Using Dihedral Cards. Lecture Notes in Computer Science, 2021, , 51-67. | 1.3 | 11 |
| 45 | A complete characterization of a family of key exchange protocols. International Journal of Information Security, 2002, 1, 131-142. | 3.4 | 10 |
| 46 | Secure Multi-Party Computation Using Polarizing Cards. Lecture Notes in Computer Science, 2015, , 281-297. | 1.3 | 10 |
| 47 | Card-Based Covert Lottery. Lecture Notes in Computer Science, 2021, , 257-270. | 1.3 | 10 |
| 48 | Secure Computation of Any Boolean Function Based on Any Deck of Cards. Lecture Notes in Computer Science, 2019, , 63-75. | 1.3 | 10 |
| 49 | Analysis of Electromagnetic Radiation from Transmission Line with Loose Contact of Connector. IEICE Transactions on Electronics, 2011, E94-C, 1427-1430. | 0.6 | 9 |
| 50 | Physical authentication using side-channel information. , 2016, , . | | 9 |
| 51 | A study on an Effective Evaluation Method for EM Information Leakage without Reconstructing Screen. , 2019, , . | | 9 |
| 52 | Analysis of Information Leakage Due to Operative Errors in Card-Based Protocols. Lecture Notes in Computer Science, 2018, , 250-262. | 1.3 | 9 |
| 53 | A Card-Minimal Three-Input ANDÂProtocol Using Two Shuffles. Lecture Notes in Computer Science, 2021, , 668-679. | 1.3 | 9 |
| 54 | Evaluation of Information Leakage from Cryptographic Hardware via Common-Mode Current. IEICE Transactions on Electronics, 2012, E95.C, 1089-1097. | 0.6 | 9 |

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| 55 | Card-based Single-shuffle Protocols for Secure Multiple-input AND and XOR Computations., 2022,,. | | 9 |
| 56 | Suppression of information leakage from electronic devices based on SNR., 2011,,. | | 8 |
| 57 | Another Use ofÂtheÂFive-Card Trick: Card-Minimal Secure Three-Input Majority Function Evaluation. Lecture Notes in Computer Science, 2021, , 536-555. | 1.3 | 8 |
| 58 | Characterization of optimal key set protocols. Discrete Applied Mathematics, 2003, 131, 213-236. | 0.9 | 7 |
| 59 | Secure Computation Protocols Using Polarizing Cards. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1122-1131. | 0.3 | 7 |
| 60 | Efficient Generation of a Card-Based Uniformly Distributed Random Derangement. Lecture Notes in Computer Science, 2021, , 78-89. | 1.3 | 7 |
| 61 | Preface: Special Issue on Card-Based Cryptography. New Generation Computing, 2021, 39, 1-2. | 3.3 | 7 |
| 62 | Card-Based Protocol Against Actively Revealing Card Attack. Lecture Notes in Computer Science, 2019, , 95-106. | 1.3 | 7 |
| 63 | Secure Multiparty Computations Using the 15 Puzzle. Lecture Notes in Computer Science, 2007, , 255-266. | 1.3 | 7 |
| 64 | How to Implement a Non-uniform or Non-closed Shuffle. Lecture Notes in Computer Science, 2020, , $107-118$. | 1.3 | 7 |
| 65 | AN APPLICATION OF ESOP EXPRESSIONS TO SECURE COMPUTATIONS. Journal of Circuits, Systems and Computers, 2007, 16, 191-198. | 1.5 | 6 |
| 66 | Evaluating card-based protocols in terms of execution time. International Journal of Information Security, 2021, 20, 729-740. | 3.4 | 6 |
| 67 | Actively revealing card attack on card-based protocols. Natural Computing, 0 , , 1 . | 3.0 | 6 |
| 68 | Analyzing Execution Time of Card-Based Protocols. Lecture Notes in Computer Science, 2018, , 145-158. | 1.3 | 6 |
| 69 | Mechanism of Increase in Inductance at Loosened Connector Contact Boundary. IEICE Transactions on Electronics, 2012, E95.C, 1502-1507. | 0.6 | 6 |
| 70 | Information leakage due to operative errors in card-based protocols. Information and Computation, 2022, 285, 104910. | 0.7 | 6 |
| 71 | On contact conditions in connectors to cause Common Mode radiation. , 2008, , . | | 5 |
| 72 | Precisely timed IEMI fault injection synchronized with EM information leakage. , 2014, , . | | 5 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Cooking Cryptographers: Secure Multiparty Computation Based on Balls and Bags. , 2021, , . | | 5 |
| 74 | Secure Multiparty Computations Using a Dial Lock. , 2007, , 499-510. | | 5 |
| 75 | Modeling connector contact condition using a contact failure model with equivalent inductance. , 2010, , . | | 4 |
| 76 | Information leakage from cryptographic hardware via common-mode current. , 2010, , . | | 4 |
| 77 | Evaluation of Resistance and Inductance of Loose Connector Contact. IEICE Transactions on Electronics, 2013, E96.C, 1148-1150. | 0.6 | 4 |
| 78 | Basic Study on the Method for Real-Time Video Streaming with Low Latency and High Bandwidth Efficiency. , $2015, , .$ | | 4 |
| 79 | Information Leakage Threats for Cryptographic Devices Using IEMI and EM Emission. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1340-1347. | 2.2 | 4 |
| 80 | Committed-format AND protocol using only random cuts. Natural Computing, 2021, 20, 639-645. | 3.0 | 4 |
| 81 | Public-PEZ Cryptography. Lecture Notes in Computer Science, 2020, , 59-74. | 1.3 | 4 |
| 82 | Practical and Easy-to-Understand Card-Based Implementation of Yao's Millionaire Protocol. Lecture Notes in Computer Science, 2018, , 246-261. | 1.3 | 4 |
| 83 | Contact Conditions in Connectors that Cause Common Mode Radiation. IEICE Transactions on Electronics, 2011, E94-C, 1369-1374. | 0.6 | 3 |
| 84 | AN APPLICATION OF ST-NUMBERING TO SECRET KEY AGREEMENT. International Journal of Foundations of Computer Science, 2011, 22, 1211-1227. | 1.1 | 3 |
| 85 | Study on the effect of clock rise time on fault occurrence under IEMI. , 2018, , . | | 3 |
| 86 | Necessary and Sufficient Numbers of Cards for the Transformation Protocol. Lecture Notes in Computer Science, 2004, , 92-101. | 1.3 | 3 |
| 87 | Fundamental Study on Mechanism of Electromagnetic Field Radiation from Electric Devices with Loose Contact of Connector. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 373-378. | 0.2 | 3 |
| 88 | The Source Estimation of Electromagnetic Information Leakage from Information Devices. , 2020, , . | | 3 |
| 89 | A Revised Transformation Protocol for Unconditionally Secure Secret Key Exchange. Theory of Computing Systems, 2008, 42, 187-221. | 1.1 | 2 |
| 90 | A one-round secure message broadcasting protocol through a key sharing tree. Information Processing Letters, 2009, 109, 842-845. | 0.6 | 2 |

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| 91 | Relationship between connector contact points and common-mode current on a coaxial transmission line. , 2009, , . | | 2 |
| 92 | Efficient mapping of EM radiation associated with information leakage for cryptographic devices. , 2012, , . | | 2 |
| 93 | Map-based analysis of IEMI fault injection into cryptographic devices. , 2013, , . | | 2 |
| 94 | Analysis of EM emission from cryptographic devices. , 2014, , . | | 2 |
| 95 | Fundamental study on randomized processing in cryptographic IC using variable clock against Correlation Power Analysis. , 2015, , . | | 2 |
| 96 | Method for estimating fault injection time on cryptographic devices from EM leakage. , 2015, , . | | 2 |
| 97 | A Practical Evaluation Method for EM Information Leakage by Using Audible Signal. , 2019, , . | | 2 |
| 98 | Secure Computations in a Minimal Model Using Multiple-Valued ESOP Expressions. Lecture Notes in Computer Science, 2006, , 547-554. | 1.3 | 2 |
| 99 | Study on Information Leakage of Input Key due to Frequency Fluctuation of RC Oscillator in Keyboard. IEICE Transactions on Communications, 2013, E96.B, 2633-2638. | 0.7 | 2 |
| 100 | Multi-party Computation Based on Physical Coins. Lecture Notes in Computer Science, 2018, , 87-98. | 1.3 | 2 |
| 101 | Light Cryptography. IFIP Advances in Information and Communication Technology, 2019, , 89-101. | 0.7 | 2 |
| 102 | Measurement on Effect of Controlled Wave Phase in EM Fault Injection Attack. , 2020, , . | | 2 |
| 103 | Coin-based Secure Computations. International Journal of Information Security, 0, , 1. | 3.4 | 2 |
| 104 | ABSOLUTELY SECURE MESSAGE TRANSMISSION USING A KEY SHARING GRAPH. Discrete Mathematics, Algorithms and Applications, 2012, 04, 1250053. | 0.6 | 1 |
| 105 | Investigation on the effect of parasitic inductance at connector contact boundary on electromagnetic radiation. , 2012, , . | | 1 |
| 106 | Minimizing ESCT forms for two-variable multiple-valued input binary output functions. Discrete Applied Mathematics, 2014, 169, 186-194. | 0.9 | 1 |
| 107 | Fundamental study on fault occurrence mechanisms by intentional electromagnetic interference using impulses., 2015,,. | | 1 |
| 108 | Efficient Electromagnetic Analysis for Cryptographic Module on the Frequency Domain. Electronics and Communications in Japan, 2016, 99, 24-32. | 0.5 | 1 |

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| 109 | Secure Multi-Party Computations Using a Deck of Cards. leice Ess Fundamentals Review, 2016, 9, 179-187. | 0.1 | 1 |
| 110 | Best Security Index for Digital Fingerprinting. Lecture Notes in Computer Science, 2005, , 398-412. | 1.3 | 1 |
| 111 | Influence of PCB and Attached Line of Hardware on Electromagnetic (EM) Information Leakage. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 173-179. | 0.2 | 1 |
| 112 | Investigation of Noise Interference due to Connector Contact Failure in a Coaxial Cable. IEICE Transactions on Electronics, 2014, E97.C, 900-903. | 0.6 | 1 |
| 113 | Quantitative Evaluation of Inductance at the Coaxial Connector Contact Failure Portion. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 347-352. | 0.2 | 1 |
| 114 | Sharing secret keys along a Eulerian circuit. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 2000, 83, 33-42. | 0.1 | 0 |
| 115 | An efficient method for estimating the area of information propagation through electromagnetic radiation. , $2012, , .$ | | 0 |
| 116 | Influence of PCB and attached line of hardware on electromagnetic (EM) information leakage. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2013, 182, 1-9. | 0.4 | 0 |
| 117 | Fundamental Study on a Mechanism of Faulty Outputs from Cryptographic Modules Due to IEMI. Electronics and Communications in Japan, 2016, 99, 72-78. | 0.5 | 0 |
| 118 | A study on an evaluation method for EM information leakage utilizing controlled image displaying. , 2018, , . | | 0 |
| 119 | Experimental Study on Measurement Resolution of Side Channel Waveform in Correlation Power Analysis. , 2020, , . | | 0 |
| 120 | Characterization of Optimal Key Set Protocols. Lecture Notes in Computer Science, 2000, , 273-285. | 1.3 | 0 |
| 121 | Necessary and Sufficient Numbers of Cards for Sharing Secret Keys on Hierarchical Groups. Lecture Notes in Computer Science, 2001, , 196-207. | 1.3 | 0 |
| 122 | Worst-Case Optimal Fingerprinting Codes for Non-threshold Collusion. Lecture Notes in Computer Science, 2006, , 203-216. | 1.3 | 0 |
| 123 | Minimizing AND-EXOR Expressions for Multiple-Valued Two-Input Logic Functions. Lecture Notes in Computer Science, 2009, , 301-310. | 1.3 | 0 |
| 124 | Analysis of Magnetic Field Distribution around Connector with Contact Failure. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 417-420. | 0.2 | 0 |
| 125 | Recent Research Trends in Side Channel Attack on Cryptographic Modules and its Countermeasure. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 9-12. | 0.2 | 0 |
| 126 | Effect of Contact Failure of Connector in Electronic Control Units on Radiated Emissions. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 456-457. | 0.2 | 0 |

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| 127 | Effect of Connector Contact Points on Common-Mode Current on a Coaxial Transmission Line. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 273-277. | 0.2 | O |
| 128 | Fundamental Study on a Mechanism of Faulty Outputs from Cryptographic Modules due to IEMI. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 276-281. | 0.2 | 0 |
| 129 | Efficient Electromagnetic Analysis for Cryptographic Module on the Frequency Domain. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 515-521. | 0.2 | O |
| 130 | Secret Key Amplification from Uniformly Leaked Key Exchange Complete Graph. Lecture Notes in Computer Science, 2018, , 20-31. | 1.3 | 0 |