

Yosuke Todo

List of Publications by Year in descending order

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53
papers

1,247
citations

471061

17
h-index

377514

34
g-index

55
all docs

55
docs citations

55
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	GIFT: A Small Present. Lecture Notes in Computer Science, 2017, , 321-345.	1.0	221
2	Structural Evaluation by Generalized Integral Property. Lecture Notes in Computer Science, 2015, , 287-314.	1.0	172
3	Bit-Based Division Property and Application to Simon Family. Lecture Notes in Computer Science, 2016, , 357-377.	1.0	113
4	New Impossible Differential Search Tool from Design and Cryptanalysis Aspects. Lecture Notes in Computer Science, 2017, , 185-215.	1.0	73
5	Integral Cryptanalysis on Full MISTY1. Lecture Notes in Computer Science, 2015, , 413-432.	1.0	61
6	Cube Attacks on Non-Blackbox Polynomials Based on Division Property. Lecture Notes in Computer Science, 2017, , 250-279.	1.0	60
7	Gimli : A Cross-Platform Permutation. Lecture Notes in Computer Science, 2017, , 299-320.	1.0	51
8	Cryptanalysis of Reduced-Round SIMON32 and SIMON48. Lecture Notes in Computer Science, 2014, , 143-160.	1.0	48
9	Improved Division Property Based Cube Attacks Exploiting Algebraic Properties of Superpoly. Lecture Notes in Computer Science, 2018, , 275-305.	1.0	35
10	Modeling for Three-Subset Division Property Without Unknown Subset. Lecture Notes in Computer Science, 2020, , 466-495.	1.0	32
11	New Algorithm for Modeling S-box in MILP Based Differential and Division Trail Search. Lecture Notes in Computer Science, 2017, , 150-165.	1.0	27
12	Integral Cryptanalysis on Full MISTY1. Journal of Cryptology, 2017, 30, 920-959.	2.1	27
13	Nonlinear Invariant Attack. Lecture Notes in Computer Science, 2016, , 3-33.	1.0	27
14	Improved Differential-Linear Attacks with Applications to ARX Ciphers. Lecture Notes in Computer Science, 2020, , 329-358.	1.0	24
15	Out of Oddity – New Cryptanalytic Techniques Against Symmetric Primitives Optimized for Integrity Proof Systems. Lecture Notes in Computer Science, 2020, , 299-328.	1.0	22
16	Fast Correlation Attack Revisited. Lecture Notes in Computer Science, 2018, , 129-159.	1.0	21
17	Cube Attacks on Non-Blackbox Polynomials Based on Division Property. IEEE Transactions on Computers, 2018, 67, 1720-1736.	2.4	19
18	Programming the Demirci-Sel Meet-in-the-Middle Attack with Constraints. Lecture Notes in Computer Science, 2018, , 3-34.	1.0	17

#	ARTICLE	IF	CITATIONS
19	Nonlinear Invariant Attack: Practical Attack on Full SCREAM, iSCREAM, and Midori64. Journal of Cryptology, 2019, 32, 1383-1422.	2.1	17
20	Lower Bounds on the Degree of Block Ciphers. Lecture Notes in Computer Science, 2020, , 537-566.	1.0	17
21	Massive Superpoly Recovery with Nested Monomial Predictions. Lecture Notes in Computer Science, 2021, , 392-421.	1.0	15
22	Falsification Attacks against WPA-TKIP in a Realistic Environment. IEICE Transactions on Information and Systems, 2012, E95-D, 588-595.	0.4	14
23	New Conditional Differential Cryptanalysis for NLFSR-based Stream Ciphers and Application to Grain v1. , 2016, , .		10
24	Cryptanalysis for RC4 and Breaking WEP/WPA-TKIP. IEICE Transactions on Information and Systems, 2011, E94-D, 2087-2094.	0.4	8
25	New Differential Bounds and Division Property of Lilliput: Block Cipher with Extended Generalized Feistel Network. Lecture Notes in Computer Science, 2017, , 264-283.	1.0	8
26	Several MILP-Aided Attacks Against SNOW 2.0. Lecture Notes in Computer Science, 2018, , 394-413.	1.0	8
27	PRINCEv2. Lecture Notes in Computer Science, 2021, , 483-511.	1.0	8
28	FFT Key Recovery for Integral Attack. Lecture Notes in Computer Science, 2014, , 64-81.	1.0	8
29	Modeling for Three-Subset Division Property without Unknown Subset. Journal of Cryptology, 2021, 34, 1.	2.1	7
30	On the Design Rationale of SIMON Block Cipher: Integral Attacks and Impossible Differential Attacks against SIMON Variants. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 88-98.	0.2	7
31	Proposal of a Secure WEP Operation against Existing Key Recovery Attacks and its Evaluation. , 2012, , .		6
32	On the Data Limitation of Small-State Stream Ciphers: Correlation Attacks on Fruit-80 and Plantlet. Lecture Notes in Computer Science, 2020, , 365-392.	1.0	6
33	Compact Representation for Division Property. Lecture Notes in Computer Science, 2016, , 19-35.	1.0	6
34	Upper Bounds for the Security of Several Feistel Networks. Lecture Notes in Computer Science, 2013, , 302-317.	1.0	6
35	Tight Bounds of Differentially and Linearly Active S-Boxes and Division Property of Lilliput. IEEE Transactions on Computers, 2018, 67, 717-732.	2.4	5
36	Impossible Differential Attack against 14-Round <i>Piccolo</i>-80 without Relying on Full Code Book. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 154-157.	0.2	4

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37	Improved Division Property Based Cube Attacks Exploiting Algebraic Properties of Superpoly. IEEE Transactions on Computers, 2019, 68, 1470-1486.	2.4	4
38	Improved Integral Attack on HIGHT. Lecture Notes in Computer Science, 2017, , 363-383.	1.0	4
39	Analyzing Key Schedule of Simon: Iterative Key Differences and Application to Related-Key Impossible Differentials. Lecture Notes in Computer Science, 2017, , 141-158.	1.0	4
40	Practical Cryptanalysis of a Public-Key Encryption Scheme Based on New Multivariate Quadratic Assumptions. Lecture Notes in Computer Science, 2014, , 446-464.	1.0	4
41	Links between Division Property and Other Cube Attack Variants. IACR Transactions on Symmetric Cryptology, 0, , 363-395.	0.0	3
42	Sycon: a new milestone in designing ASCON-like permutations. Journal of Cryptographic Engineering, 2022, 12, 305-327.	1.5	3
43	Fast Fourier Transform Key Recovery for Integral Attacks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1944-1952.	0.2	3
44	Division Property: Efficient Method to Estimate Upper Bound of Algebraic Degree. Lecture Notes in Computer Science, 2017, , 553-571.	1.0	2
45	On the Complexity of Impossible Differential Cryptanalysis. Security and Communication Networks, 2018, 2018, 1-11.	1.0	1
46	New Property of Diffusion Switching Mechanism on CLEFIA and Its Application to DFA. Lecture Notes in Computer Science, 2013, , 99-114.	1.0	1
47	How Much Can Complexity of Linear Cryptanalysis Be Reduced?. Lecture Notes in Computer Science, 2015, , 117-131.	1.0	1
48	New Attacks from Old Distinguishers Improved Attacks on Serpent. Lecture Notes in Computer Science, 2022, , 484-510.	1.0	1
49	Designing S-Boxes Providing Stronger Security Against Differential Cryptanalysis for Ciphers Using Byte-Wise XOR. Lecture Notes in Computer Science, 2022, , 179-199.	1.0	1
50	Efficient Implementations for Practical Linear Cryptanalysis and Its Application to FEAL-8X. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 31-38.	0.2	0
51	Wide Trail Design Strategy for Binary MixColumns. Lecture Notes in Computer Science, 2016, , 467-484.	1.0	0
52	Improved Integral Attack on HIGHT. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 1259-1271.	0.2	0
53	Upper Bounds for the Security of Several Feistel Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 39-48.	0.2	0