Udaya Parampalli

List of Publications by Year
in descending order

100 papers	1,477 citations	430874 18 h-index	377865 34 g-index
103 all docs	103 docs citations	103 times ranked	680 citing authors

#	Article	IF	Citations
1	Cyclic codes and self-dual codes over F/sub 2/+uF/sub 2/. IEEE Transactions on Information Theory, 1999, 45, 1250-1255.	2.4	145
2	Optimal large linear complexity frequency hopping patterns derived from polynomial residue class rings. IEEE Transactions on Information Theory, 1998, 44, 1492-1503.	2.4	94
3	New Complete Complementary Codes for Peak-to-Mean Power Control in Multi-Carrier CDMA. IEEE Transactions on Communications, 2014, 62, 1105-1113.	7.8	84
4	Optimal Odd-Length Binary Z-Complementary Pairs. IEEE Transactions on Information Theory, 2014, 60, 5768-5781.	2.4	78
5	New Constructions for Optimal Sets of Frequency-Hopping Sequences. IEEE Transactions on Information Theory, 2011, 57, 3831-3840.	2.4	62
6	New Classes of Frequency-Hopping Sequences With Optimal Partial Correlation. IEEE Transactions on Information Theory, 2012, 58, 453-458.	2.4	62
7	On Even-Period Binary Z-Complementary Pairs with Large ZCZs. IEEE Signal Processing Letters, 2014, 21, 284-287.	3.6	51
8	Optimal biphase sequences with large linear complexity derived from sequences over Z/sub 4/. IEEE Transactions on Information Theory, 1996, 42, 206-216.	2.4	49
9	A Framework of Constructions of Minimal Storage Regenerating Codes With the Optimal Access/Update Property. IEEE Transactions on Information Theory, 2015, 61, 1920-1932.	2.4	45
10	New Bound on Frequency Hopping Sequence Sets and Its Optimal Constructions. IEEE Transactions on Information Theory, 2011, 57, 7605-7613.	2.4	42
11	Optimal and Suboptimal Quadriphase Sequences Derived from Maximal Length Sequences over Z _{{f 4}}. Applicable Algebra in Engineering, Communications and Computing, 1998, 9, 161-191.	0.5	39
12	Cocyclic Hadamard codes. IEEE Transactions on Information Theory, 2000, 46, 1545-1550.	2.4	36
13	Decoding of cyclic codes over F/sub 2/+uF/sub 2/. IEEE Transactions on Information Theory, 1999, 45, 2148-2157.	2.4	35
14	Nonbinary sequences with perfect and nearly perfect autocorrelations. , 2010, , .		35
15	An Efficient Clustering Scheme to Exploit Hierarchical Data in Network Traffic Analysis. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 752-767.	5.7	34
16	Constructions of Optimal and Near-Optimal Quasi-Complementary Sequence Sets from Singer Difference Sets. IEEE Wireless Communications Letters, 2013, 2, 487-490.	5.0	32
17	Privacy preserving k-nearest neighbor classification over encrypted database in outsourced cloud environments. World Wide Web, 2019, 22, 101-123.	4.0	29
18	A New Family of Nonbinary Sequences With Three-Level Correlation Property and Large Linear Span. IEEE Transactions on Information Theory, 2005, 51, 2906-2914.	2.4	26

#	Article	IF	Citations
19	An adaptive algorithm for online time series segmentation with error bound guarantee. , 2012, , .		22
20	Optimal Cyclic Locally Repairable Codes via Cyclotomic Polynomials. IEEE Communications Letters, 2019, 23, 202-205.	4.1	20
21	Spectrally-Constrained Sequences: Bounds and Constructions. IEEE Transactions on Information Theory, 2018, 64, 2571-2582.	2.4	19
22	Interference Mitigation in Automotive Radars Using Pseudo-Random Cyclic Orthogonal Sequences. Sensors, 2019, 19, 4459.	3.8	19
23	Privacy and forensics investigation process: The ERPINA protocol. Computer Standards and Interfaces, 2008, 30, 229-236.	5.4	18
24	A new construction of zero correlation zone sequences from generalized reed-muller codes. , 2014, , .		18
25	Millimeter-wave integrated radar systems and techniques. , 2018, , 317-363.		18
26	Generalized GMW Quadriphase Sequences Satisfying the Welch Bound with Equality. Applicable Algebra in Engineering, Communications and Computing, 2000, 10, 203-225.	0.5	17
27	Empirically Analyzing Ethereum's Gas Mechanism. , 2019, , .		17
28	Generalized Binary Udayaâ€"Siddiqi Sequences. IEEE Transactions on Information Theory, 2007, 53, 1225-1230.	2.4	15
29	Optimal variable-weight optical orthogonal codes via cyclic difference families. , 2009, , .		14
30	Benchmarking the performance of hadoop triple replication and erasure coding on a nation-wide distributed cloud. , 2015, , .		14
31	A Family of Polyphase Sequences With Asymptotically Optimal Correlation. IEEE Transactions on Information Theory, 2018, 64, 2896-2900.	2.4	14
32	New Optimal Z-Complementary Code Sets Based on Generalized Paraunitary Matrices. IEEE Transactions on Signal Processing, 2020, 68, 5546-5558.	5.3	14
33	A blind digital watermarking scheme based on complete complementary codes. , 2011, , .		12
34	Path-Balanced Logic Design to Realize Block Ciphers Resistant to Power and Timing Attacks. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1080-1092.	3.1	12
35	Online Coded Caching With Random Access. IEEE Communications Letters, 2017, 21, 552-555.	4.1	11
36	New sets of optimal low-hit-zone frequency-hopping sequences based on m-sequences. Cryptography and Communications, 2017, 9, 511-522.	1.4	11

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37	Construction of low-hit-zone frequency hopping sequences with optimal partial Hamming correlation by interleaving techniques. Designs, Codes, and Cryptography, 2017, 84, 401-414.	1.6	11
38	Efficient dynamic multi-replica auditing for the cloud with geographic location. Future Generation Computer Systems, 2021, 125, 285-298.	7.5	11
39	A Hybrid Incomplete Exponential Sum With Application to Aperiodic Hamming Correlation of Some Frequency-Hopping Sequences. IEEE Transactions on Information Theory, 2012, 58, 6610-6615.	2.4	10
40	An audio data hiding based on complete complementary codes and its application to an evacuation guiding system. , 2013, , .		10
41	IoT Device Integration and Payment via an Autonomic Blockchain-Based Service for IoT Device Sharing. Sensors, 2022, 22, 1344.	3.8	10
42	On Secrecy Capacity of Minimum Storage Regenerating Codes. IEEE Transactions on Information Theory, 2017, 63, 1510-1524.	2.4	9
43	On the Noncyclic Property of Sylvester Hadamard Matrices. IEEE Transactions on Information Theory, 2010, 56, 4653-4658.	2.4	8
44	A New Weight Vector for a Tighter Levenshtein Bound on Aperiodic Correlation. IEEE Transactions on Information Theory, 2014, 60, 1356-1366.	2.4	8
45	Lee-metric decoding of BCH and Reedâ€"Solomon codes. Electronics Letters, 2003, 39, 1522.	1.0	7
46	On multiple information embedding by digital watermarking based on complete complementary codes. , 2011, , .		7
47	Efficient Range-Doppler Processing for Random Stepped Frequency Radar in Automotive Applications. , 2017, , .		6
48	Efficiently Shuffling in Public. Lecture Notes in Computer Science, 2012, , 431-448.	1.3	5
49	On the Construction of Binary Sequence Families With Low Correlation and Large Sizes. IEEE Transactions on Information Theory, 2013, 59, 1082-1089.	2.4	5
50	Quadratic weight vector for tighter aperiodic Levenshtein bound. , 2013, , .		5
51	On optimal binary Z-complementary pair of odd period. , 2013, , .		5
52	Security Concerns in Minimum Storage Cooperative Regenerating Codes. IEEE Transactions on Information Theory, 2016, 62, 6218-6232.	2.4	5
53			

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55	Efficient identity-based signatures in the standard model. IET Information Security, 2008, 2, 108.	1.7	4
56	New families of arrays in two dimensions for watermarking applications. Electronics Letters, 2010, 46, 1500.	1.0	4
57	On the relative abundance of nonbinary sequences with perfect autocorrelations. , 2011, , .		4
58	Low Probability of Intercept properties of some binary sequence families with good correlation properties. , 2012, , .		4
59	Optimal spectrally-constrained sequences. , 2015, , .		4
60	Near-Optimal Zero Correlation Zone Sequence Sets from Paraunitary Matrices. , 2019, , .		4
61	Two classes of optimal LRCs with information (r,Ât)-locality. Designs, Codes, and Cryptography, 2020, 88, 1741-1757.	1.6	4
62	Low Correlation Zone Sequences from Interleaved Construction. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 2220-2226.	0.3	4
63	New p-ary sequence family with low correlation and large linear span. Applicable Algebra in Engineering, Communications and Computing, 2011, 22, 301-309.	0.5	3
64	Properties of an Emergency Broadcasting System Based on Audio Data Hiding. , 2015, , .		3
65	On improving recovery performance in erasure code based geo-diverse storage clusters. , 2016, , .		3
66	Geo-aware erasure coding for high-performance erasure-coded storage clusters. Annales Des Telecommunications/Annals of Telecommunications, 2018, 73, 139-152.	2.5	3
67	Improved Upper Bounds on Systematic-Length for Linear Minimum Storage Regenerating Codes. IEEE Transactions on Information Theory, 2019, 65, 975-984.	2.4	3
68	Optimal placement for repair-efficient erasure codes in geo-diverse storage centres. Journal of Parallel and Distributed Computing, 2020, 135, 101-113.	4.1	3
69	Secure Path Balanced BDD-Based Pre-Charge Logic for Masking. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 4747-4760.	5.4	3
70	Efficient privacy-preserving frequent itemset query over semantically secure encrypted cloud database. World Wide Web, 2021, 24, 607-629.	4.0	3
71	A new family of polyphase sequences with low correlation. Cryptography and Communications, 2022, 14, 135-144.	1.4	3
72	A New Class of Ternary Cocyclic Hadamard Codes. Applicable Algebra in Engineering, Communications and Computing, 2003, 14, 65-73.	0.5	2

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73	New Families of 2D & 3D Arrays for Sub-image Watermarking. , 2010, , .		2
74	64-QAM complementary sets for high-rate OFDM transmissions. , 2013, , .		2
75	Improved transformation algorithms for generalized Galois NLFSRs. Cryptography and Communications, 2022, 14, 229-258.	1.4	2
76	Secure Communication in Mobile Ad Hoc Network using Efficient Certificateless Encryption,. Journal of Networks, 2009, 4, .	0.4	2
77	Applying a cryptographic scheme in the RPINA protocol. , 2007, , .		1
78	A generation method of an orthogonal set of real-valued periodic orthogonal sequences from Huffman sequences. , 2011, , .		1
79	AUTHENTICATION CODES FROM DIFFERENCE BALANCED FUNCTIONS. International Journal of Foundations of Computer Science, 2011, 22, 1417-1429.	1.1	1
80	Re-engineering simultaneous internet sessions process-separated browsers. , 2017, , .		1
81	Public key encryption resilient to leakage and tampering attacks. Journal of Computer and System Sciences, 2017, 89, 142-156.	1.2	1
82	Challenges and prospects of blind spread spectrum medical image watermarking. , 2017, , .		1
83	Novel authentication scheme with pseudorandom sequences in the frequency domain of images. , 2017, , .		1
84	Cryptanalysis of the class of maximum period galois NLFSR-based stream ciphers. Cryptography and Communications, 2021, 13, 847-864.	1.4	1
85	On the Aperiodic Hamming Correlation of Frequency-Hopping Sequences from Norm Functions. Lecture Notes in Computer Science, 2012, , 148-158.	1.3	1
86	A Privacy Preserving E-Payment Scheme. Studies in Computational Intelligence, 2009, , 197-202.	0.9	1
87	Orthogonal and ZCZ Sets of Real-Valued Periodic Orthogonal Sequences from Huffman Sequences. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 2728-2736.	0.3	1
88	Self-Dual Cyclic Codes over $\mathbb{Z}_4+u\mathbb{Z}_4$. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 969-974.	0.3	1
89	On the construction of binary sequence families with low correlation and large sizes. , 2010, , .		0
90	Self-dual cyclic codes over â„¤4 + uâ„¤4. , 2015, , .		0

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91	Efficient Construction of Completely Non-Malleable CCA Secure Public Key Encryption. , 2016, , .		0
92	Personally controlled & privacy preserving medication management system. , 2016, , .		0
93	Improve sprout cipher to resist the divide and conquer based key recovery attack. , 2018, , .		0
94	A Tighter Correlation Lower Bound for Quasi-Complementary Sequence Sets with Low Correlation Zone. , 2019, , .		0
95	A Tighter Correlation Lower Bound for Quasi-Complementary Sequence Sets with Low Correlation Zone. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 392-398.	0.3	0
96	Designing Information Systems Which Manage or Avoid Privacy Incidents. Lecture Notes in Computer Science, 2008, , 131-142.	1.3	0
97	An Anonymity Revocation Technology for Anonymous Communication. , 2009, , 329-337.		0
98	A Large Class of p-Ary Cyclic Codes and Sequence Families. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 2272-2277.	0.3	0
99	A Trusted Approach to E-Commerce. Lecture Notes in Computer Science, 2008, , 119-132.	1.3	0
100	Monitoring Employees' Emails without Violating Their Privacy Right. , 2007, , .		0