Jean-FranÃ§ois Couchot

List of Publications by Year
in descending order

48 papers	378 citations	1040056 9 h-index	888059 17 g-index
51 all docs	51 docs citations	51 times ranked	344 citing authors

#	Article	IF	Citations
1	Privacy-Preserving Prediction of Victim's Mortality and Their Need for Transportation to Health Facilities. IEEE Transactions on Industrial Informatics, 2022, 18, 5592-5599.	11.3	5
2	Improving the utility of locally differentially private protocols for longitudinal and multidimensional frequency estimates. Digital Communications and Networks, 2022, , .	5.0	7
3	Using Deep learning for image watermarking attack. Signal Processing: Image Communication, 2021, 90, 116019.	3.2	30
4	Preserving Geo-Indistinguishability of the Emergency Scene to Predict Ambulance Response Time. Mathematical and Computational Applications, 2021, 26, 56.	1.3	6
5	Normalized blind STDM watermarking scheme for images and PDF documents robust against fixed gain attack. Multimedia Tools and Applications, 2020, 79, 1887-1919.	3.9	6
6	Mobility modeling through mobile data: generating an optimized and open dataset respecting privacy. , 2020, , .		3
7	Publishing Anonymized Set-Valued Data via Disassociation towards Analysis. Future Internet, 2020, 12, 71.	3.8	4
8	Forecasting the number of firefighter interventions per region with local-differential-privacy-based data. Computers and Security, 2020, 96, 101888.	6.0	18
9	Anonymously forecasting the number and nature of firefighting operations. , 2019, , .		10
10	Ant-driven clustering for utility-aware disassociation of set-valued datasets. , 2019, , .		3
11	Safe disassociation of set-valued datasets. Journal of Intelligent Information Systems, 2019, 53, 547-562.	3.9	4
12	Fast and robust PRNGs based on jumps in N-cubes for simulation, but not exclusively for that.. , 2019, , .		0
13	Ancestral Reconstruction and Investigations of Genomic Recombination on some Pentapetalae Chloroplasts. Journal of Integrative Bioinformatics, 2019, 16, .	1.5	1
14	Optimal power/rate trade-off for internet of multimedia things lifetime maximization under dynamic links capacity. Future Generation Computer Systems, 2019, 93, 737-750.	7.5	7
15	Maximum network lifetime with optimal power/rate and routing trade-off for Wireless Multimedia Sensor Networks. Computer Communications, 2018, 124, 1-16.	5.1	19
16	Survey on hardware implementation of random number generators on FPGA: Theory and experimental analyses. Computer Science Review, 2018, 27, 135-153.	15.3	67
17	A Hardware and Secure Pseudorandom Generator for Constrained Devices. IEEE Transactions on Industrial Informatics, 2018, 14, 3754-3765.	11.3	45
18	CIPRNG: A VLSI Family of Chaotic Iterations Post-Processings for $\mathbb{F}_{2}$ -Linear Pseudorandom Number Generation Based on Zynq MPSoC. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1628-1641.	5.4	17

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19	Joint routing/encoding-power for network lifetime maximization in WMSN. , 2018, , .		2
20	On the reconstruction of the ancestral bacterial genomes in genus Mycobacterium and Brucella. BMC Systems Biology, 2018, 12, 100.	3.0	5
21	Blind Image Watermarking using Normalized STDM robust against Fixed Gain Attack. , 2018, , .		3
22	Theoretical Study of the One Self-Regulating Gene in the Modified Wagner Model. Mathematics, 2018, 6, 58.	2.2	1
23	Gray Codes Generation Algorithm and Theoretical Evaluation of Random Walks in N-Cubes. Mathematics, 2018, 6, 98.	2.2	1
24	Comparison of metaheuristics to measure gene effects on phylogenetic supports and topologies. BMC Bioinformatics, 2018, 19, 218.	2.6	1
25	Blind PDF Document Watermarking Robust Against PCA and ICA Attacks. , 2018, , .		3
26	Blind digital watermarking in PDF documents using Spread Transform Dither Modulation. Multimedia Tools and Applications, 2017, 76, 143-161.	3.9	20
27	Random Walk in a N-Cube Without Hamiltonian Cycle to Chaotic Pseudorandom Number Generation: Theoretical and Practical Considerations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750014.	1.7	9
28	On the Ability to Reconstruct Ancestral Genomes from Mycobacterium Genus. Lecture Notes in Computer Science, 2017, , 642-658.	1.3	1
29	Routing impact on network lifetime maximization using power/rate trade-off in WVSN. , 2017, , .		2
30	Improving Blind Steganalysis in Spatial Domain Using a Criterion to Choose the Appropriate Steganalyzer Between CNN and SRM+EC. IFIP Advances in Information and Communication Technology, 2017, , 327-340.	0.7	5
31	One Random Jump and One Permutation: Sufficient Conditions to Chaotic, Statistically Faultless, and Large Throughput PRNG for FPGA. , 2017, , .		3
32	Canonical Form of Gray Codes in N-cubes. Lecture Notes in Computer Science, 2017, , 68-80.	1.3	1
33	Binary Particle Swarm Optimization Versus Hybrid Genetic Algorithm for Inferring Well Supported Phylogenetic Trees. Lecture Notes in Computer Science, 2016, , 165-179.	1.3	2
34	A Second Order Derivatives based Approach for Steganography. , 2016, , .		0
35	FPGA Implementation of F2-Linear Pseudorandom Number Generators based on Zynq MPSoC: A Chaotic Iterations Post Processing Case Study. , 2016, , .		0
36	Steganalyzer Performances in Operational Contexts. , 2015, , .		0

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37	Performance Study of Steganalysis Techniques. , 2015, , .		0
38	STABYLO: steganography with adaptive, Bbs, and binary embedding at low cost. Annales Des Telecommunications/Annals of Telecommunications, 2015, 70, 441-449.	2.5	10
39	Hybrid Genetic Algorithm and Lasso Test Approach for Inferring Well Supported Phylogenetic Trees Based on Subsets of Chloroplastic Core Genes. Lecture Notes in Computer Science, 2015, , 83-96.	1.3	5
40	Gene similarity-based approaches for determining core-genes of chloroplasts. , 2014, , .		5
41	Active MEMS-based flow control using artificial neural network. Mechatronics, 2013, 23, 898-905.	3.3	5
42	Quality Studies of an Invisible Chaos-Based Watermarking Scheme with Message Extraction. , 2013, , .		1
43	Neural networks and chaos: Construction, evaluation of chaotic networks, and prediction of chaos with multilayer feedforward networks. Chaos, 2012, 22, 013122.	2.5	6
44	Steganography: A Class of Secure and Robust Algorithms. Computer Journal, 2012, 55, 653-666.	2.4	9
45	Steganography: A Class of Algorithms having Secure Properties. , 2011, , .		6
46	Handling Polymorphism in Automated Deduction. Lecture Notes in Computer Science, 2007, , 263-278.	1.3	13
47	Guiding the Correction of Parameterized Specifications. Lecture Notes in Computer Science, 2007, , 176-194.	1.3	1
48	Differentially private multivariate time series forecasting of aggregated human mobility with deep learning: Input or gradient perturbation?. Neural Computing and Applications, 0, , .	5.6	2