Witold Kinsner

List of Publications by Year
in descending order

61 papers	450 citations	1163117 8 h-index	940533 16 g-index
61 all docs	61 docs citations	61 times ranked	233 citing authors

#	Article	IF	Citations
1	Optimal Colour Image Watermarking Using Neural Networks and Multiobjective Memetic Optimization. International Journal of Neural Networks and Advanced Applications, 2022, 9, 23-32.	0.0	0
2	Detection of Faults in Electro-Hydrostatic Actuators Using Feature Extraction Methods and an Artificial Neural Network. , 2022, , .		3
3	A Personalized Cyber-physical Laboratory For A Real-time Systems Interfacing Course. , 2021, , .		0
4	Digital Twins for Personalized Education and Lifelong Learning. , 2021, , .		5
5	Fractional-Order Control of Hydraulically Powered Actuators: Controller Design and Experimental Validation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 796-807.	5.8	22
6	Learning Entropy as a Learning-Based Information Concept. Entropy, 2019, 21, 166.	2.2	8
7	A Robust Variance Complexity Measure for Stochastic Self-Affine Processes. , 2019, , .		2
8	Towards Evolving Symbiotic Cognitive Education Based on Digital Twins. , 2019, , .		7
9	Extracting Features from Both the Input and the Output of a Convolutional Neural Network to Detect Distributed Denial of Service Attacks. , 2018, , .		11
10	Detecting unstable periodic orbits in chaotic time series using synchronization. Physical Review E, 2017, 96, 012207.	2.1	2
11	Fractal based cognitive neural network to detect obfuscated and indistinguishable internet threats. , 2017, , .		7
12	Fractal based adaptive boosting algorithm for cognitive detection of computer malware. , 2016, , .		4
13	Zero-crossing analysis of LÃ©vy walks for real-time feature extraction: Composite signal analysis for strengthening the IoT against DDoS attacks. , 2016, , .		1
14	An information theoretic criterion for adaptive multiobjective memetic optimization. , 2016, , .		1
15	Anomaly detection in a smart grid using wavelet transform, variance fractal dimension and an artificial neural network. , 2016, , .		9
16	Internal Leakage Detection in Electrohydrostatic Actuators Using Multiscale Analysis of Experimental Data. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2734-2747.	4.7	18
17	Ferroelectric random access memory (FRAM) fatigue test with Arduino and Raspberry Pi. , 2016, , .		1
18	Zero-crossing analysis of LÃ©vy walks for real-time feature extraction. , 2016, , .		2

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19	A data acquisition system based on Raspberry Pi: Design, construction and evaluation. , 2016, , .		3
20	Zero-Crossing Analysis of LÃ©vy Walks and a DDoS Dataset for Real-Time Feature Extraction. International Journal of Software Science and Computational Intelligence, 2016, 8, 1-28.	3.0	3
21	Zero-Crossing Analysis and Information Divergence of LÃ©vy Walks for Real-Time Feature Extraction. International Journal of Handheld Computing Research, 2016, 7, 41-59.	0.4	0
22	Cognitive Informatics and Computational Intelligence. International Journal of Software Science and Computational Intelligence, 2015, 7, 50-69.	3.0	18
23	A cognitive multifractal approach to characterize complexity of non-stationary and malicious DNS data traffic using adaptive sliding window. , 2015, , .		4
24	An analytical multiobjective optimization of joint spectrum sensing and power control in cognitive radio networks. , 2015, , .		7
25	Multifractal Singularity Spectrum for Cognitive Cyber Defence in Internet Time Series. International Journal of Software Science and Computational Intelligence, 2015, 7, 17-45.	3.0	7
26	A Chaotic Complexity Measure for Cognitive Machine Classification of Cyber-Attacks on Computer Networks. International Journal of Cognitive Informatics and Natural Intelligence, 2014, 8, 45-69.	0.4	8
27	A rough-fuzzy perception-based computing for a vision-based wall-following robot. , 2014, , .		2
28	A chaotic measure for cognitive machine classification of distributed denial of service attacks. , 2014, , .		5
29	An evaluation of integer- and fractional-order controllers for small satellites. , 2014, , .		3
30	Multiobjective memetic optimization for spectrum sensing and power allocation in cognitive wireless networks. , 2014, , .		7
31	A comparison between fuzzy, fractional-, and integer-order controllers for small satellites attitude control. , 2014, , .		0
32	Design of a Naturalistic Navigational Virtual Reality Using Oculus Rift1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	1
33	Comparison of selected cryptosystems using single-scale and poly-scale measures. , 2013, , .		3
34	Implementation of a nanosatellite attitude determination and control system for the T-Sat1 mission. , 2013, , .		2
35	Extended Kalman filtering for pico-satellites attitude determination. , 2013, , .		1
36	Simulation of Koch fractal antennas. , 2013, , .		1

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37	An analysis of Koch and Minkowski fractal antennas for cognitive systems. , 2013, , .		2
38	Comparison of cryptosystems using a single-scale statistical measure. , 2013, , .		2
39	Chaotic simulated annealing for task allocation in a multiprocessing system. , 2013, , .		1
40	Extended and unscented Kalman filters for the identification of uncertainties in a process. , 2013, , .		1
41	Chaotic Walk in Simulated Annealing Search Space for Task Allocation in a Multiprocessing System. International Journal of Cognitive Informatics and Natural Intelligence, 2013, 7, 58-79.	0.4	2
42	The T-Sat1 Nanosatellite Design and Implementation Through a Team of Teams. International Journal of Cognitive Informatics and Natural Intelligence, 2013, 7, 32-57.	0.4	1
43	Towards cognitive security systems. , 2012, , .		19
44	The T-Sat1 Nanosatellite Team of Teams. , 2012, , .		3
45	Security testing of a modular cryptosystem based on continuous cellular automata. , 2012, , .		1
46	An intelligent digital colour image watermarking approach based on wavelets and general regression neural networks. , 2012, , .		9
47	Perspectives on eBrain and Cognitive Computing. International Journal of Cognitive Informatics and Natural Intelligence, 2012, 6, 1-21.	0.4	19
48	Towards agent Swarm Optimization. , 2011, , .		0
49	A modular dynamical cryptosystem based on continuous cellular automata. , 2011, , .		4
50	Analysis of Modulated Monofractal Noise for Noise Modeling in Wireless Networks. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 524-530.	2.2	0
51	A study of particle swarm optimization for cognitive machines. , 2010, , .		5
52	A new approach to the study of lightning-strike density distributions. , 2010, , .		1
53	Decision-making in fuzzy environments using ontological control with fuzzy automata. , 2010, , .		1
54	Special Issue on Cybernetics and Cognitive Informatics. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 818-822.	5.0	4

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55	Complexity and its measures in cognitive and other complex systems. , 2008, , .		21
56	Speech segmentation using multifractal measures and amplification of signal features. , 2008, , .		18
57	Characterization of healthy and epileptic brain EEG signals by monofractal and multifractal analysis. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	1
58	Towards Cognitive Machines. International Journal of Cognitive Informatics and Natural Intelligence, 2007, 1, 28-38.	0.4	57
59	A Unified Approach To Fractal Dimensions. International Journal of Cognitive Informatics and Natural Intelligence, 2007, 1, 26-46.	0.4	63
60	Is Entropy Suitable to Characterize Data and Signals for Cognitive Informatics?. International Journal of Cognitive Informatics and Natural Intelligence, 2007, 1, 34-57.	0.4	31
61	CHALLENGES IN ENGINEERING EDUCATION OF COGNITIVE DYNAMIC SYSTEMS. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	6