Arkadiusz Orłowski

List of Publications by Year
in descending order

111 papers	1,052 citations	471509 17 h-index	477307 29 g-index
118 all docs	118 docs citations	118 times ranked	563 citing authors

#	Article	IF	Citations
1	Description of Electricity Consumption by Using Leading Hours Intra-day Model. Lecture Notes in Computer Science, 2021, , 392-404.	1.3	1
2	Hybrid Reality in the Internet of Things as an Environment for Transferring Knowledge. International Journal of Research in E-learning, 2021, 6, 1-13.	0.0	1
3	New Test for a Random Walk Detection Based on the Arcsine Law. Contributions To Statistics, 2020, , 51-61.	0.2	0
4	Simulation Study on the Electricity Data Streams Time Series Clustering. Energies, 2020, 13, 924.	3.1	1
5	Does Randomness in the Random Visual Cryptography Protocol Depend on the Period of Pseudorandom Number Generators?. Lecture Notes in Computer Science, 2020, , 36-47.	1.3	0
6	An Interval Calculus Based Approach to Determining the Area of Integration of the Entropy Density Function. Lecture Notes in Computer Science, 2020, , 395-406.	1.3	0
7	Randomness of Shares Versus Quality of Secret Reconstruction in Black-and-White Visual Cryptography. Lecture Notes in Computer Science, 2019, , 58-69.	1.3	4
8	Generalized visual cryptography scheme with completely random shares. , 2019, , .		6
9	Insolvency modeling with generalized entropy cost function in neural networks. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120730.	2.6	2
10	Color Visual Cryptography with Completely Randomly Coded Colors. Lecture Notes in Computer Science, 2019, , 589-599.	1.3	3
11	SOME PROPOSAL OF THE TEST FOR A RANDOM WALK DETECTION AND ITS APPLICATION IN THE STOCK MARKET DATA ANALYSIS. Metody Ilościowe W Badaniach Ekonomicznych, 2019, 19, 339-346.	0.0	1
12	Applications of Multilingual Thesauri for the Texts Indexing in the Field of Agriculture. Advances in Intelligent Systems and Computing, 2019, , 185-195.	0.6	0
13	Textural features based on run length encoding in the classification of furniture surfaces with the orange skin defect. Machine Graphics and Vision, 2019, 28, 35-45.	0.1	0
14	Classifiers ensemble of transfer learning for improved drill wear classification using convolutional neural network. Machine Graphics and Vision, 2019, 28, 13-23.	0.1	9
15	Data augmentation techniques for transfer learning improvement in drill wear classification using convolutional neural network. Machine Graphics and Vision, 2019, 28, 3-12.	0.1	11
16	BCT Boost Segmentation with U-net in TensorFlow. Machine Graphics and Vision, 2019, 28, 25-34.	0.1	1
17	Context-based segmentation of the longissimus muscle in beef with a deep neural network. Machine Graphics and Vision, 2019, 28, 47-57.	0.1	0
18	Detecting Changes in Time Sequences with the Competitive Detector. Studies in Systems, Decision and Control, 2018, , 251-267.	1.0	0

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19	Persistent Correlations in Major Indices of the World Stock Markets. Studies in Systems, Decision and Control, 2018, , 411-422.	1.0	0
20	Simulation Study on the Application of the Generalized Entropy Concept in Artificial Neural Networks. Entropy, 2018, 20, 249.	2.2	14
21	Swarm Based System for Management of Containerized Microservices in a Cloud Consisting of Heterogeneous Servers. Advances in Intelligent Systems and Computing, 2018, , 262-271.	0.6	2
22	Ulam Spiral and Prime-Rich Polynomials. Lecture Notes in Computer Science, 2018, , 522-533.	1.3	0
23	Feature Selection for 'Orange Skin' Type Surface Defect in Furniture Elements. Lecture Notes in Computer Science, 2018, , 81-91.	1.3	1
24	Two-component structure of household income distributions in Poland. Equilibrium Quarterly Journal of Economics and Economic Policy, 2018, 13, 603-622.	3.5	2
25	Application of Automated Theorem-Proving to Philosophical Thought: Spinoza's Ethics. Lecture Notes in Electrical Engineering, 2017, , 512-518.	0.4	0
26	Testing the Limits of Detection of the 'Orange Skin' Defect in Furniture Elements with the HOG Features. Lecture Notes in Computer Science, 2017, , 276-286.	1.3	4
27	Detection of 'Orange Skin' Type Surface Defects in Furniture Elements with the Use of Textural Features. Lecture Notes in Computer Science, 2017, , 402-411.	1.3	2
28	A Decentralized System for Load Balancing of Containerized Microservices in the Cloud. Advances in Intelligent Systems and Computing, 2017, , 142-152.	0.6	12
29	Choice of distance function in the segmentation of regions of interest in microscopic images of breast tissues. , 2017, , .		1
30	Milk duct segmentation in microscopic HE images of breast cancer tissues. MATEC Web of Conferences, 2017, 125, 04013.	0.2	1
31	A Study on Directionality in the Ulam Square with the Use of the Hough Transform. Advances in Intelligent Systems and Computing, 2017, , 81-90.	0.6	3
32	Segment Counting Versus Prime Counting in the Ulam Square. Lecture Notes in Computer Science, 2017, , 227-236.	1.3	2
33	Generalized Entropy Cost Function in Neural Networks. Lecture Notes in Computer Science, 2017, , 128-136.	1.3	4
34	Contiguous Line Segments in the Ulam Spiral: Experiments with Larger Numbers. Lecture Notes in Computer Science, 2017, , 463-472.	1.3	1
35	Swarm of Mobile Virtualization Containers. Advances in Intelligent Systems and Computing, 2016, , 75-85.	0.6	2
36	Defect Detection in Furniture Elements with the Hough Transform Applied to 3D Data. Advances in Intelligent Systems and Computing, 2016, , 631-640.	0.6	5

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37	Prediction of Trend Reversals in Stock Market by Classification of Japanese Candlesticks. Advances in Intelligent Systems and Computing, 2016, , 641-647.	0.6	3
38	Detection of Surface Defects of Type 'orange skin' in Furniture Elements with Conventional Image Processing Methods. Lecture Notes in Computer Science, 2016, , 26-37.	1.3	4
39	Heuristic Assessment of Parameters of the Local Ground Approximation from Terrestrial LIDAR Data. Lecture Notes in Computer Science, 2016, , 88-97.	1.3	1
40	Associations Rules Between Sector Indices on the Warsaw Stock Exchange. Lecture Notes in Business Information Processing, 2016, , 312-321.	1.0	2
41	Entropy Based Trees to Support Decision Making for Customer Churn Management. Acta Physica Polonica A, 2016, 129, 971-979.	0.5	16
42	The Quantile Decomposition of Personal Income Distributions in the USA. Acta Physica Polonica A, 2016, 129, 965-970.	0.5	1
43	Numerical Analysis of Modified Kaldor-Kalecki Model with Couplings and Delays. Acta Physica Polonica A, 2016, 129, 1008-1010.	0.5	0
44	Numerical Analysis of Two Coupled Kaldor-Kalecki Models with Delay. Acta Physica Polonica A, 2015, 127, A-70-A-74.	0.5	4
45	Pattern Recognition in the Japanese Candlesticks. Advances in Intelligent Systems and Computing, 2015, , 227-234.	0.6	7
46	Q-Entropy Approach to Selecting High Income Households. Acta Physica Polonica A, 2015, 127, A-38-A-44.	0.5	14
47	Ground Level Recovery from Terrestrial Laser Scanning Data with the Variably Randomized Iterated Hierarchical Hough Transform. Lecture Notes in Computer Science, 2015, , 630-641.	1.3	3
48	Homotopy Analysis Method for Stochastic Differential Equations with Maxima. Lecture Notes in Computer Science, 2015, , 233-244.	1.3	0
49	Where Is the Ground? Quality Measures for the Planar Digital Terrain Model in Terrestrial Laser Scanning. Lecture Notes in Computer Science, 2015, , 343-353.	1.3	1
50	Coherence and Large-Scale Pattern Formation in Coupled Logistic-Map Lattices via Computer Algebra Systems. Lecture Notes in Computer Science, 2014, , 230-241.	1.3	1
51	Hough transform for lines with slope defined by a pair of co-primes. Machine Graphics and Vision, 2013, 22, 17-25.	0.1	6
52	Visualization of nonlocality in coupled map lattices. Machine Graphics and Vision, 2012, 25, 13-25.	0.1	0
53	Stock Indices for Emerging Markets. Acta Physica Polonica A, 2010, 117, 619-622.	0.5	8
54	Genetic Algorithms Approach to Community Detection. Acta Physica Polonica A, 2010, 117, 703-705.	0.5	11

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55	Dynamics of a Polish Internet-Based Social Network. Acta Physica Polonica A, 2010, 117, 700-702.	0.5	1
56	Spontaneous emission in a Fabry–Perot cavity: frequency modulation and collective effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 065501.	1.5	1
57	New Results on Gain-Loss Asymmetry for Stock Markets Time Series. Acta Physica Polonica A, 2008, 114, 569-574.	0.5	15
58	Gain–loss asymmetry for emerging stock markets. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 599-604.	2.6	32
59	Light Localization in Left-Handed Media. Acta Physica Polonica A, 2007, 112, 673-680.	0.5	0
60	Cellular automaton approach to electromagnetic wave propagation in dispersive media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 2927-2948.	2.1	6
61	Decoherence of entangled states in two-mode cavities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1763-1771.	1.5	6
62	Anderson Localization of Electromagnetic Waves in Dielectric Media: Model Studies. Acta Physica Polonica A, 2006, 109, 109-119.	0.5	0
63	Different mechanisms of cluster explosion within a unified smooth particle hydrodynamics Thomas-Fermi approach: Optical and short-wavelength regimes compared. Physical Review A, 2005, 71, .	2.5	24
64	Free Electrons Generation in the Interaction of Intense Laser Pulses with Atomic Clusters. Acta Physica Polonica A, 2005, 107, 473-478.	0.5	0
65	Probing Anderson localization of light via decay rate statistics. Physical Review E, 2004, 69, 026605.	2.1	86
66	Probabilistic models of income distributions. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 146-151.	2.6	19
67	Fluctuation dynamics of exchange rates on Polish financial market. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 184-189.	2.6	1
68	Application of bootstrap to detecting chaos in financial time series. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 317-321.	2.6	11
69	Application of the ultrametric distance to portfolio taxonomy. Critical approach and comparison with other methods. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 81-86.	2.6	2
70	A four-level "Ž-system" Exact solvability and effective evolution operators via multiple scales. Reports on Mathematical Physics, 2004, 54, 57-69.	0.8	8
71	Two-photon Jaynes-Cummings model without rotatingwave approximation. Reports on Mathematical Physics, 2004, 54, 71-79.	0.8	7
72	Light Propagation in a Magnetic Field: Random Green Matrix Approach. Acta Physica Polonica A, 2004, 105, 339-347.	0.5	3

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73	Explosion of Atom Clusters in a Free-Electron Intense Laser Pulse. Acta Physica Polonica A, 2004, 105, 425-436.	0.5	2
74	Dynamics of Argon Clusters in an Intense Laser Pulse: Bloch-Like Hydrodynamic Model. Acta Physica Polonica A, 2004, 106, 3-12.	0.5	4
75	Optimization of Directional Antennas in Two-Dimensional Artificial Dielectrics. Acta Physica Polonica A, 2004, 105, 263-278.	0.5	0
76	Facts and Myths of Enigma: Breaking Stereotypes. Lecture Notes in Computer Science, 2003, , 106-122.	1.3	4
77	Correlations in financial time series: established versus emerging markets. European Physical Journal B, 2001, 20, 527-530.	1.5	39
78	From Proximity Resonances to Anderson Localization. , 2001, , 509-518.		0
79	Soluble model of many interacting quantum particles in a trap. Physical Review A, 2000, 61, .	2.5	41
80	Random Green matrices: From proximity resonances to Anderson localization. Physical Review A, 2000, 61, .	2.5	62
81	Anderson localization of electromagnetic waves in confined dielectric media. Physical Review E, 1999, 59, 3655-3660.	2.1	11
82	Wehrl's entropy and classification of states. Reports on Mathematical Physics, 1999, 43, 283-289.	0.8	8
83	Bands of Localized Electromagnetic Waves in 3D Random Media. Foundations of Physics, 1998, 28, 667-681.	1.3	0
84	Spontaneously Emitting Atom in Front of a Two-Slit Interferometer. Foundations of Physics, 1998, 28, 601-609.	1.3	0
85	Information entropy and squeezing of quantum fluctuations. Physical Review A, 1997, 56, 2545-2548.	2.5	57
86	Example of self-averaging in three dimensions: Anderson localization of electromagnetic waves in random distributions of pointlike scatterers. Physical Review E, 1997, 56, 6090-6094.	2.1	3
87	Band of localized electromagnetic waves in random arrays of dielectric cylinders. Physical Review E, 1997, 56, 4892-4895.	2.1	18
88	Weighted class operators: A new approach to tensor operators for compact groups. Journal of Mathematical Physics, 1997, 38, 2720-2727.	1.1	0
89	Phase-intensity uncertainty relation from quasiprobability distributions. Optics Communications, 1997, 138, 311-316.	2.1	1
90	Localization of Electromagnetic Waves in 2D Random Media. NATO ASI Series Series B: Physics, 1997, , 295-305.	0.2	0

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91	Localization of light in three-dimensional random dielectric media. Physical Review E, 1996, 53, 4122-4130.	2.1	46
92	Dynamical properties of a classical-like entropy in the Jaynes-Cummings model. Physical Review A, 1995, 52, 1621-1628.	2.5	52
93	Analytical approach to localization of electromagnetic waves in two-dimensional random media. Physical Review E, 1995, 51, R2763-R2766.	2.1	29
94	Phase properties of Kerr media via variance and entropy as measures of uncertainty. Physical Review A, 1995, 51, 4172-4180.	2.5	24
95	Distance between density operators: Applications to the Jaynes-Cummings model. Physical Review A, 1995, 51, 1622-1630.	2.5	38
96	A generalization of the construction of the class operator. Journal of Physics A, 1994, 27, 167-175.	1.6	5
97	Randomly driven Korteweg–de Vries–Burgers equation. Physical Review E, 1994, 49, 2465-2467.	2.1	4
98	Dynamical ordering: Applications to Fokker-Planck equations. Physical Review A, 1994, 50, 3401-3408.	2.5	0
99	Phase retrieval in quantum mechanics. Physical Review A, 1994, 50, R921-R924.	2.5	41
100	Wehrl's Entropy Dynamics in a Kerr-like Medium. Journal of Modern Optics, 1994, 41, 2301-2306.	1.3	39
101	Classical entropy of quantum states of light. Physical Review A, 1993, 48, 727-731.	2.5	33
102	Squeezed fluctuations of truncated photon operators. Physical Review A, 1993, 47, 5151-5157.	2.5	9
103	Marginal distributions of quasiprobabilities in quantum optics. Physical Review A, 1993, 48, 4697-4701.	2.5	9
104	Squeezing in Finite Superpositions of Photon-number States without the Vacuum. Journal of Modern Optics, 1991, 38, 2107-2109.	1.3	2
105	Eigenstates of squeeze operators do not exist. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 154, 319-320.	2.1	2
106	Remarks on a classification of Wigner distributions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 149, 449-451.	2.1	2
107	On the SU(1, 1) Phase-space Description of Reduced and Squeezed Quantum Fluctuations. Journal of Modern Optics, 1990, 37, 295-301.	1.3	16
108	Solitons and shock waves under random external noise. Reports on Mathematical Physics, 1989, 27, 59-71.	0.8	24

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109	Forerunners and shapes of the signal in the propagation of radiation in structured nonlinear dispersive dielectrics. , 0, , .		0
110	Comparison of Decision Trees with Rényi and Tsallis Entropy Applied for Imbalanced Churn Dataset. , 0, , .		13
111	Testing the randomness of shares in color visual cryptography. Pattern Analysis and Applications, 0, , 1.	4.6	4