

Marek Kretowski

List of Publications by Year in descending order

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92
papers

861
citations

516561

16
h-index

610775

24
g-index

102
all docs

102
docs citations

102
times ranked

626
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of decision tree representation in regression problems – An evolutionary perspective. Applied Soft Computing Journal, 2016, 48, 458-475.	4.1	50
2	Physiologically based modeling of 3-D vascular networks and CT scan angiography. IEEE Transactions on Medical Imaging, 2003, 22, 248-257.	5.4	45
3	Toward a better understanding of texture in vascular CT scan simulated images. IEEE Transactions on Biomedical Engineering, 2001, 48, 120-123.	2.5	41
4	Decision tree underfitting in mining of gene expression data. An evolutionary multi-test tree approach. Expert Systems With Applications, 2019, 137, 392-404.	4.4	37
5	Multi-test decision tree and its application to microarray data classification. Artificial Intelligence in Medicine, 2014, 61, 35-44.	3.8	33
6	Evolutionary induction of a decision tree for large-scale data: a GPU-based approach. Soft Computing, 2017, 21, 7363-7379.	2.1	30
7	Evolutionary Induction of Mixed Decision Trees. International Journal of Data Warehousing and Mining, 2007, 3, 68-82.	0.4	29
8	An Evolutionary Algorithm Using Multivariate Discretization for Decision Rule Induction. Lecture Notes in Computer Science, 1999, , 392-397.	1.0	27
9	Fast algorithm for 3-D vascular tree modeling. Computer Methods and Programs in Biomedicine, 2003, 70, 129-136.	2.6	26
10	Multiscale Model of Liver DCE-MRI Towards a Better Understanding of Tumor Complexity. IEEE Transactions on Medical Imaging, 2010, 29, 699-707.	5.4	26
11	Global learning of decision trees by an evolutionary algorithm. , 2005, , 401-410.		25
12	Computational modeling of MR flow imaging by the lattice Boltzmann method and Bloch equation. Magnetic Resonance Imaging, 2013, 31, 1163-1173.	1.0	24
13	Evolutionary induction of global model trees with specialized operators and memetic extensions. Information Sciences, 2014, 288, 153-173.	4.0	22
14	Computer-Aided Diagnosis of Liver Tumors Based on Multi-Image Texture Analysis of Contrast-Enhanced CT. Selection of the Most Appropriate Texture Features. Studies in Logic, Grammar and Rhetoric, 2013, 35, 49-70.	0.2	21
15	Cost-sensitive Global Model Trees applied to loan charge-off forecasting. Decision Support Systems, 2015, 74, 57-66.	3.5	17
16	Top Scoring Pair Decision Tree for Gene Expression Data Analysis. Advances in Experimental Medicine and Biology, 2011, 696, 27-35.	0.8	17
17	Evolutionary Decision Trees in Large-Scale Data Mining. Studies in Big Data, 2019, , .	0.8	16
18	Evolutionary Learning of Linear Trees with Embedded Feature Selection. Lecture Notes in Computer Science, 2006, , 400-409.	1.0	16

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19	Discovery of decision rules from databases: An evolutionary approach. Lecture Notes in Computer Science, 1998, , 370-378.	1.0	15
20	Hepatic tumor enhancement in computed tomography: combined models of liver perfusion and dynamic imaging. Computers in Biology and Medicine, 2003, 33, 77-89.	3.9	14
21	Simulation of Biphasic CT Findings in Hepatic Cellular Carcinoma by a Two-Level Physiological Model. IEEE Transactions on Biomedical Engineering, 2007, 54, 538-542.	2.5	14
22	Multi-GPU approach to global induction of classification trees for large-scale data mining. Applied Intelligence, 2021, 51, 5683-5700.	3.3	14
23	In Silico Modeling of Magnetic Resonance Flow Imaging in Complex Vascular Networks. IEEE Transactions on Medical Imaging, 2014, 33, 2191-2209.	5.4	13
24	Towards a patient-specific hepatic arterial modeling for microspheres distribution optimization in SIRT protocol. Medical and Biological Engineering and Computing, 2018, 56, 515-529.	1.6	13
25	Induction of Multivariate Decision Trees by Using Dipolar Criteria. Lecture Notes in Computer Science, 2000, , 331-336.	1.0	13
26	A Parallel Approach for Evolutionary Induced Decision Trees. MPI+OpenMP Implementation. Lecture Notes in Computer Science, 2015, , 340-349.	1.0	12
27	Physiological modeling of tumor-affected renal circulation. Computer Methods and Programs in Biomedicine, 2008, 91, 1-12.	2.6	11
28	MESA: Complete approach for design and evaluation of segmentation methods using real and simulated tomographic images. Biocybernetics and Biomedical Engineering, 2014, 34, 146-158.	3.3	11
29	A multi-objective evolutionary approach to Pareto-optimal model trees. Soft Computing, 2019, 23, 1423-1437.	2.1	11
30	MRI Texture Analysis for Differentiation Between Healthy and Golden Retriever Muscular Dystrophy Dogs at Different Phases of Disease Evolution. Lecture Notes in Computer Science, 2015, , 255-266.	1.0	11
31	Global Induction of Oblique Decision Trees: An Evolutionary Approach. , 2005, , 309-318.		10
32	Multi-Image Texture Analysis in Classification of Prostatic Tissues from MRI. Preliminary Results. Advances in Intelligent Systems and Computing, 2014, , 139-150.	0.5	8
33	An Evolutionary Algorithm for Global Induction of Regression Trees. Lecture Notes in Computer Science, 2010, , 157-164.	1.0	8
34	Multi-sequence texture analysis in classification of in vivo MR images of the prostate. Biocybernetics and Biomedical Engineering, 2016, 36, 537-552.	3.3	7
35	Does Memetic Approach Improve Global Induction of Regression and Model Trees?. Lecture Notes in Computer Science, 2012, , 174-181.	1.0	7
36	An Evolutionary Algorithm for Cost-Sensitive Decision Rule Learning. Lecture Notes in Computer Science, 2001, , 288-299.	1.0	7

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37	Integration of solutions and services for multi-omics data analysis towards personalized medicine. <i>Biocybernetics and Biomedical Engineering</i> , 2021, 41, 1646-1663.	3.3	7
38	Fitness evaluation reuse for accelerating GPU-based evolutionary induction of decision trees. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 20-32.	2.4	6
39	Vascular System Modeling in Parallel Environment - Distributed and Shared Memory Approaches. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 668-672.	3.6	5
40	Fast 3D Segmentation of Hepatic Images Combining Region and Boundary Criteria. <i>Image Processing & Communications</i> , 2012, 17, 31-38.	0.3	5
41	Blood Flow Simulation in Patient-Specific Segmented Hepatic Arterial Tree. <i>Irbm</i> , 2017, 38, 120-126.	3.7	5
42	Evolutionary Induction of Classification Trees on Spark. <i>Lecture Notes in Computer Science</i> , 2018, , 514-523.	1.0	5
43	Accelerated evolutionary induction of heterogeneous decision trees for gene expression-based classification. , 2021, , .		5
44	GPU-based acceleration of evolutionary induction of model trees. <i>Applied Soft Computing Journal</i> , 2022, 119, 108503.	4.1	5
45	Exploring microRNAs as predictive biomarkers for type 2 diabetes mellitus remission after sleeve gastrectomy: A pilot study. <i>Obesity</i> , 2022, 30, 435-446.	1.5	5
46	Evolutionary Approach for Relative Gene Expression Algorithms. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	0.8	4
47	Towards multi-stage texture-based active contour image segmentation. <i>Signal, Image and Video Processing</i> , 2017, 11, 809-816.	1.7	4
48	Multi-GPU approach for big data mining. , 2019, , .		4
49	Global Top-Scoring Pair Decision Tree for Gene Expression Data Analysis. <i>Lecture Notes in Computer Science</i> , 2013, , 229-240.	1.0	4
50	Effect of Slice Thickness on Texture-Based Classification of Liver Dynamic CT Scans. <i>Lecture Notes in Computer Science</i> , 2013, , 96-107.	1.0	4
51	Texture-Based Classification of Hepatic Primary Tumors in Multiphase CT. <i>Lecture Notes in Computer Science</i> , 2004, , 1050-1051.	1.0	4
52	Globally Induced Model Trees: An Evolutionary Approach. , 2010, , 324-333.		4
53	An Evolutionary Algorithm for Global Induction of Regression Trees with Multivariate Linear Models. <i>Lecture Notes in Computer Science</i> , 2011, , 230-239.	1.0	4
54	A new approach in combined modeling of MRI and blood flow: A preliminary study. , 2012, , .		3

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55	An evolutionary algorithm for global induction of regression and model trees. International Journal of Data Mining, Modelling and Management, 2013, 5, 261.	0.1	3
56	TIGER: an evolutionary search for Top Inter-GENE Relations. International Journal of Data Mining and Bioinformatics, 2016, 16, 170.	0.1	3
57	MRI Texture-Based Classification of Dystrophic Muscles. A Search for the Most Discriminative Tissue Descriptors. Lecture Notes in Computer Science, 2016, , 116-128.	1.0	3
58	GPU-accelerated image segmentation based on level sets and multiple texture features. Multimedia Tools and Applications, 2021, 80, 5087-5109.	2.6	3
59	A Multi-objective Evolutionary Approach to Pareto Optimal Model Trees. A Preliminary Study. Lecture Notes in Computer Science, 2016, , 85-96.	1.0	3
60	Novel Extension of k-NN TSP Algorithm for Microarray Classification. Lecture Notes in Computer Science, 2008, , 456-465.	1.0	3
61	Vascular Network Modeling - Improved Parallel Implementation on Computing Cluster. Lecture Notes in Computer Science, 2010, , 289-298.	1.0	3
62	Global Induction of Decision Trees: From Parallel Implementation to Distributed Evolution. Lecture Notes in Computer Science, 2008, , 426-437.	1.0	3
63	SIMULATION OF HEPATOCELLULAR CARCINOMA IN MRI BY COMBINED MACROVASCULAR AND PHARMACOKINETIC MODELS. , 2007, , .		2
64	GPU-based computational modeling of magnetic resonance imaging of vascular structures. International Journal of High Performance Computing Applications, 2018, 32, 496-511.	2.4	2
65	Decision Trees in Data Mining. Studies in Big Data, 2019, , 21-48.	0.8	2
66	Parallel Computations for Evolutionary Induction. Studies in Big Data, 2019, , 145-174.	0.8	2
67	Accelerating GPU-based Evolutionary Induction of Decision Trees - Fitness Evaluation Reuse. Lecture Notes in Computer Science, 2020, , 421-431.	1.0	2
68	Toward Texture-Based 3D Level Set Image Segmentation. Advances in Intelligent Systems and Computing, 2016, , 205-211.	0.5	2
69	Hybrid Parallelization of Evolutionary Model Tree Induction. Lecture Notes in Computer Science, 2016, , 370-379.	1.0	2
70	GPU-Accelerated Evolutionary Induction of Regression Trees. Lecture Notes in Computer Science, 2017, , 87-99.	1.0	2
71	Multi-Test Decision Trees for Gene Expression Data Analysis. Lecture Notes in Computer Science, 2012, , 154-167.	1.0	2
72	Generic Relative Relations in Hierarchical Gene Expression Data Classification. Lecture Notes in Computer Science, 2020, , 372-384.	1.0	2

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73	Modeling hepatic enhancement in computer tomography for texture interpretation. , 0, , .		1
74	GPU Accelerated Simulations of Magnetic Resonance Imaging of Vascular Structures. Lecture Notes in Computer Science, 2016, , 389-398.	1.0	1
75	Relative evolutionary hierarchical analysis for gene expression data classification. , 2019, , .		1
76	Understanding evolutionary induction of decision trees. , 2021, , .		1
77	Evolutionary Algorithms for Global Decision Tree Induction. , 2018, , 2132-2141.		1
78	MODELING FOR MEDICAL IMAGE ANALYSIS: FRAMEWORK AND APPLICATIONS. , 2005, , 1-32.		1
79	Parallel Implementation of Vascular Network Modeling. Lecture Notes in Computer Science, 2008, , 679-688.	1.0	1
80	Hierarchical Parallel Approach in Vascular Network Modeling – Hybrid MPI+OpenMP Implementation. Lecture Notes in Computer Science, 2012, , 376-385.	1.0	1
81	Cost-Sensitive Tree Induction. Studies in Big Data, 2019, , 117-129.	0.8	1
82	Coupling texture analysis and physiological modeling for liver dynamic MRI interpretation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4223-6.	0.5	0
83	Texture-based characterization of arterialization in simulated MRI of hypervascularized liver tumors. , 2009, , .		0
84	Multi-Resolution Texture-Based 3D Level Set Segmentation. IEEE Access, 2020, 8, 143294-143305.	2.6	0
85	Global Induction of Decision Trees. , 2009, , 937-942.		0
86	Cost-Sensitive Extensions for Global Model Trees: Application in Loan Charge-Off Forecasting. Advances in Intelligent Systems and Computing, 2014, , 315-324.	0.5	0
87	Global Induction of Classification and Regression Trees. , 2014, , 1080-1089.		0
88	TIGER: an evolutionary search for Top Inter-GEne Relations. International Journal of Data Mining and Bioinformatics, 2016, 16, 170.	0.1	0
89	Global Induction of Univariate Trees. Studies in Big Data, 2019, , 71-99.	0.8	0
90	Evolutionary Algorithms for Global Decision Tree Induction. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 668-679.	0.3	0

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91	Multi-test Decision Trees for Gene Expression Data. Studies in Big Data, 2019, , 131-142.	0.8	0
92	Evolutionary Computation. Studies in Big Data, 2019, , 3-20.	0.8	0