Ioannis Vlahavas

List of Publications by Year
in descending order

157 papers	6,145 citations	136950 32 h-index	91884 69 g-index
167 all docs	167 docs citations	167 times ranked	6373 citing authors

#	Article	IF	Citations
1	REIN-2: Giving birth to prepared reinforcement learning agents using reinforcement learning agents. Neurocomputing, 2022, 497, 86-93.	5.9	2
2	A neural Entity Coreference Resolution review. Expert Systems With Applications, 2021, 168, 114466.	7.6	18
3	TP-DDI: Transformer-based pipeline for the extraction of Drug-Drug Interactions. Artificial Intelligence in Medicine, 2021, 119, 102153.	6.5	9
4	EBM+: Advancing Evidence-Based Medicine via two level automatic identification of Populations, Interventions, Outcomes in medical literature. Artificial Intelligence in Medicine, 2020, 108, 101949.	6.5	13
5	Multi-target regression via output space quantization. , 2020, , .		2
6	Information Theoretic Multi-Target Feature Selection via Output Space Quantization. Entropy, 2019, 21, 855.	2.2	11
7	The anatomy of bacteria-inspired nanonetworks: Molecular nanomachines in message dissemination. Nano Communication Networks, 2019, 21, 100244.	2.9	6
8	Predicting the average size of blasted rocks in aggregate quarries using artificial neural networks. Bulletin of Engineering Geology and the Environment, 2019, 78, 2717-2729.	3.5	18
9	PaaSport semantic model: An ontology for a platform-as-a-service semantically interoperable marketplace. Data and Knowledge Engineering, 2018, 113, 81-115.	3.4	17
10	Machine Learning and Data Mining Methods in Diabetes Research. Computational and Structural Biotechnology Journal, 2017, 15, 104-116.	4.1	842
11	Chronic Lymphocytic Leukemia with Mutated IGHV4-34 Receptors: Shared and Distinct Immunogenetic Features and Clinical Outcomes. Clinical Cancer Research, 2017, 23, 5292-5301.	7.0	27
12	FIFS: A data mining method for informative marker selection in high dimensional population genomic data. Computers in Biology and Medicine, 2017, 90, 146-154.	7.0	12
13	Message dissemination dynamics in biological communication systems: A reaction-diffusion approach. , 2017, , .		1
14	A semantic recommendation algorithm for the PaaSport platform-as-a-service marketplace. Expert Systems With Applications, 2017, 67, 203-227.	7.6	26
15	Large-scale online semantic indexing of biomedical articles via an ensemble of multi-label classification models. Journal of Biomedical Semantics, 2017, 8, 43.	1.6	14
16	A smart university platform for building energy monitoring and savings. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 301-323.	1.4	15
17	A Novel Bacteria-Based Broadcast System Exploiting Chemotaxis. , 2016, , .		2
18	Ensemble Feature Selection using Rank Aggregation Methods for Population Genomic Data. , 2016, , .		1

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19	Integrating multiple immunogenetic data sources for feature extraction and mining somatic hypermutation patterns: the case of â€œtowards analysisâ€•in chronic lymphocytic leukaemia. BMC Bioinformatics, 2016, 17, 173.	2.6	1
20	Segmento. , 2016, , .		0
21	Multi-target regression via input space expansion: treating targets as inputs. Machine Learning, 2016, 104, 55-98.	5.4	232
22	The Tomaco Hybrid Matching Framework for SAWSDL Semantic Web Services. IEEE Transactions on Services Computing, 2016, 9, 954-967.	4.6	16
23	A prediction model of passenger demand using AVL and APC data from a bus fleet. , 2015, , .		12
24	TRES: Identification of Discriminatory and Informative SNPs from Population Genomic Data: Figure 1.. Journal of Heredity, 2015, 106, 672-676.	2.4	26
25	Semantically Aware Web Service Composition Through AI Planning. International Journal on Artificial Intelligence Tools, 2015, 24, 1450015.	1.0	6
26	Transfer learning with probabilistic mapping selection. Adaptive Behavior, 2015, 23, 3-19.	1.9	12
27	Improving Diversity in Image Search via Supervised Relevance Scoring. , 2015, , .		22
28	Immunoglobulin heavy variable (IGHV) genes and alleles: new entities, new names and implications for research and prognostication in chronic lymphocytic leukaemia. Immunogenetics, 2015, 67, 61-66.	2.4	20
29	Dynamic ensemble pruning based on multi-label classification. Neurocomputing, 2015, 150, 501-512.	5.9	28
30	Rule-based approaches for energy savings in an ambient intelligence environment. Pervasive and Mobile Computing, 2015, 19, 1-23.	3.3	33
31	A Multi-agent Coordination Framework for Smart Building Energy Management. , 2014, , .		7
32	Reinforcement learning agents providing advice in complex video games. Connection Science, 2014, 26, 45-63.	3.0	54
33	A Comprehensive Study Over VLAD and Product Quantization in Large-Scale Image Retrieval. IEEE Transactions on Multimedia, 2014, 16, 1713-1728.	7.2	103
34	Pattern discovery for microsatellite genome analysis. Computers in Biology and Medicine, 2014, 46, 71-78.	7.0	0
35	Polyadenylation Site Prediction Using PolyA-iEP Method. Methods in Molecular Biology, 2014, 1125, 131-140.	0.9	3
36	Multi-target Regression via Random Linear Target Combinations. Lecture Notes in Computer Science, 2014, , 225-240.	1.3	54

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37	Feature Evaluation Metrics for Population Genomic Data. Lecture Notes in Computer Science, 2014, , 436-441.	1.3	0
38	Charting Unique Signatures of Somatic Hypermutation Amongst Chronic Lymphocytic Leukemia Patients Expressing IGHV4-34 Clonotypic B Cell Receptors. Blood, 2014, 124, 1969-1969.	1.4	0
39	aWESoME: A web service middleware for ambient intelligence. Expert Systems With Applications, 2013, 40, 4380-4392.	7.6	39
40	Model-based reinforcement learning for humanoids: A study on forming rewards with the iCub platform. , 2013, , .		6
41	Transferring task models in Reinforcement Learning agents. Neurocomputing, 2013, 107, 23-32.	5.9	17
42	A survey of service composition in ambient intelligence environments. Artificial Intelligence Review, 2013, 40, 247-270.	15.7	34
43	The PORSCE II framework: using AI planning for automated Semantic Web service composition. Knowledge Engineering Review, 2013, 28, 137-156.	2.6	36
44	Virtual laboratories on wireless communications: A contemporary, extensible approach. , 2012, , .		1
45	IRISPortal. , 2012, , .		1
46	An empirical study on the combination of surf features with VLAD vectors for image search. , 2012, , .		13
47	StackTIS: A stacked generalization approach for effective prediction of translation initiation sites. Computers in Biology and Medicine, 2012, 42, 61-69.	7.0	8
48	An Integrated Approach to Automated Semantic Web Service Composition through Planning. IEEE Transactions on Services Computing, 2012, 5, 319-332.	4.6	82
49	Transferring Evolved Reservoir Features in Reinforcement Learning Tasks. Lecture Notes in Computer Science, 2012, , 213-224.	1.3	5
50	Transfer Learning via Multiple Inter-task Mappings. Lecture Notes in Computer Science, 2012, , 225-236.	1.3	10
51	Transfer Learning in Multi-Agent Reinforcement Learning Domains. Lecture Notes in Computer Science, 2012, , 249-260.	1.3	20
52	Machine Learning and Data Mining in Bioinformatics. , 2012, , 695-703.		0
53	Random k-Labelsets for Multilabel Classification. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1079-1089.	5.7	637
54	Multi-label classification of music by emotion. Eurasip Journal on Audio, Speech, and Music Processing, 2011, 2011, .	2.1	95

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55	PolyA-iEP: A data mining method for the effective prediction of polyadenylation sites. Expert Systems With Applications, 2011, 38, 12398-12408.	7.6	22
56	A System for Energy Savings in an Ambient Intelligence Environment. Lecture Notes in Computer Science, 2011, , 102-109.	1.3	4
57	On the Stratification of Multi-label Data. Lecture Notes in Computer Science, 2011, , 145-158.	1.3	197
58	Transferring Models in Hybrid Reinforcement Learning Agents. International Federation for Information Processing, 2011, , 162-171.	0.4	2
59	Multi-label Learning Approaches for Music Instrument Recognition. Lecture Notes in Computer Science, 2011, , 734-743.	1.3	1
60	Tracking recurring contexts using ensemble classifiers: an application to email filtering. Knowledge and Information Systems, 2010, 22, 371-391.	3.2	170
61	An ensemble uncertainty aware measure forÂdirectedÂhillÂclimbing ensemble pruning. Machine Learning, 2010, 81, 257-282.	5.4	99
62	A visual programming system for automated problem solving. Expert Systems With Applications, 2010, 37, 4611-4625.	7.6	10
63	System Architecture for a Smart University Building. Lecture Notes in Computer Science, 2010, , 477-482.	1.3	17
64	Obtaining Bipartitions from Score Vectors for Multi-Label Classification. , 2010, , .		24
65	Instance-Based Ensemble Pruning via Multi-Label Classification. , 2010, , .		13
66	Semantic Awareness in Automated Web Service Composition through Planning. Lecture Notes in Computer Science, 2010, , 123-132.	1.3	8
67	Mining for Mutually Exclusive Gene Expressions. Lecture Notes in Computer Science, 2010, , 255-264.	1.3	0
68	On the Combination of Textual and Semantic Descriptions for Automated Semantic Web Service Classification. IFIP Advances in Information and Communication Technology, 2009, , 95-104.	0.7	28
69	Semantic Web Service Composition Using Planning and Ontology Concept Relevance. , 2009, , .		8
70	Pruning an ensemble of classifiers via reinforcement learning. Neurocomputing, 2009, 72, 1900-1909.	5.9	77
71	Applying adaptive prediction to sea-water quality measurements. Expert Systems With Applications, 2009, 36, 6773-6779.	7.6	9
72	An adaptive personalized news dissemination system. Journal of Intelligent Information Systems, 2009, 32, 191-212.	3.9	59

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73	Mining Multi-label Data. , 2009, , 667-685.		652
74	An Empirical Study of Multi-label Learning Methods for Video Annotation. , 2009, , .		37
75	An Ensemble Pruning Primer. Studies in Computational Intelligence, 2009, , 1-13.	0.9	87
76	Regression via Classification applied on software defect estimation. Expert Systems With Applications, 2008, 34, 2091-2101.	7.6	45
77	An ontology-based planning system for e-course generation. Expert Systems With Applications, 2008, 35, 398-406.	7.6	61
78	An empirical study on sea water quality prediction. Knowledge-Based Systems, 2008, 21, 471-478.	7.1	53
79	Greedy regression ensemble selection: Theory and an application to water quality prediction. Information Sciences, 2008, 178, 3867-3879.	6.9	51
80	MOpiS: A Multiple Opinion Summarizer. Lecture Notes in Computer Science, 2008, , 110-122.	1.3	4
81	Polyadenylation site prediction using interesting emerging patterns. , 2008, , .		5
82	A HYBRID MULTIAGENT REINFORCEMENT LEARNING APPROACH USING STRATEGIES AND FUSION. International Journal on Artificial Intelligence Tools, 2008, 17, 945-962.	1.0	6
83	An Empirical Study of Lazy Multilabel Classification Algorithms. Lecture Notes in Computer Science, 2008, , 401-406.	1.3	131
84	A Synergy of Planning and Ontology Concept Ranking for Semantic Web Service Composition. Lecture Notes in Computer Science, 2008, , 42-51.	1.3	5
85	Artificial Intelligence for Advanced Problem Solving Techniques. , 2008, , .		8
86	Reinforcement Learning and Automated Planning. , 2008, , 148-165.		5
87	Accurate Classification of SAGE Data Based on Frequent Patterns of Gene Expression. , 2007, , .		3
88	MANTIS: A Data Mining Methodology for Effective Translation Initiation Site Prediction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6344-8.	0.5	10
89	DETECTION AND PREDICTION OF RARE EVENTS IN TRANSACTION DATABASES. International Journal on Artificial Intelligence Tools, 2007, 16, 829-848.	1.0	6
90	PASER: a curricula synthesis system based on automated problem solving. International Journal of Teaching and Case Studies, 2007, 1, 159.	0.1	8

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91	Random k-Labelsets: An Ensemble Method for Multilabel Classification. Lecture Notes in Computer Science, 2007, , 406-417.	1.3	471
92	Multi-agent Reinforcement Learning Using Strategies and Voting. , 2007, , .		11
93	An interoperable and scalable Web-based system for classifier sharing and fusion. Expert Systems With Applications, 2007, 33, 716-724.	7.6	6
94	Monitoring water quality through a telematic sensor network and a fuzzy expert system. Expert Systems, 2007, 24, 143-161.	4.5	23
95	Cooperative CG-Wrappers for Web Content Extraction. Lecture Notes in Computer Science, 2007, , 476-479.	1.3	1
96	E-mail Mining. , 2007, , 220-243.		4
97	R-DEVICE. International Journal on Semantic Web and Information Systems, 2006, 2, 24-90.	5.1	21
98	A Defeasible Logic Reasoner for the Semantic Web. International Journal on Semantic Web and Information Systems, 2006, 2, 1-41.	5.1	80
99	Communicating sequential processes for distributed constraint satisfaction. Information Sciences, 2006, 176, 490-521.	6.9	4
100	Ensemble Pruning Using Reinforcement Learning. Lecture Notes in Computer Science, 2006, , 301-310.	1.3	18
101	Prediction of Translation Initiation Sites Using Classifier Selection. Lecture Notes in Computer Science, 2006, , 367-377.	1.3	6
102	Towards Automatic Synthesis of Educational Resources Through Automated Planning. Lecture Notes in Computer Science, 2006, , 421-431.	1.3	2
103	HYBRID ACE: COMBINING SEARCH DIRECTIONS FOR HEURISTIC PLANNING. Computational Intelligence, 2005, 21, 306-331.	3.2	2
104	Web Service Composition Using a Deductive XML Rule Language. Distributed and Parallel Databases, 2005, 17, 135-178.	1.6	5
105	Selective fusion of heterogeneous classifiers. Intelligent Data Analysis, 2005, 9, 511-525.	0.9	77
106	Mining for weak periodic signals in time series databases. Intelligent Data Analysis, 2005, 9, 29-42.	0.9	2
107	A VISUALIZATION ENVIRONMENT FOR PLANNING. International Journal on Artificial Intelligence Tools, 2005, 14, 975-998.	1.0	2
108	Mining for Contiguous Frequent Itemsets in Transaction Databases. , 2005, , .		2

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109	A novel approach for incremental uncertainty rule generation from databases with missing values handling: Application to dynamic medical databases. Informatics for Health and Social Care, 2005, 30, 211-225.	1.0	7
110	Improving the Accuracy of Classifiers for the Prediction of Translation Initiation Sites in Genomic Sequences. Lecture Notes in Computer Science, 2005, , 426-436.	1.3	10
111	Biological Data Mining. , 2005, , 35-41.		14
112	A Graphical Rule Authoring Tool for Defeasible Reasoning in the Semantic Web. Lecture Notes in Computer Science, 2005, , 404-414.	1.3	0
113	Distributed singleton consistency. Journal of Experimental and Theoretical Artificial Intelligence, 2004, 16, 107-124.	2.8	1
114	Clustering classifiers for knowledge discovery from physically distributed databases. Data and Knowledge Engineering, 2004, 49, 223-242.	3.4	49
115	Effective Voting of Heterogeneous Classifiers. Lecture Notes in Computer Science, 2004, , 465-476.	1.3	26
116	DR-DEVICE: A Defeasible Logic System for the Semantic Web. Lecture Notes in Computer Science, 2004, , 134-148.	1.3	42
117	A Defeasible Logic Reasoner for the Semantic Web. Lecture Notes in Computer Science, 2004, , 49-64.	1.3	11
118	R-DEVICE: A Deductive RDF Rule Language. Lecture Notes in Computer Science, 2004, , 65-80.	1.3	11
119	A Knowledge-Based Web Information System for the Fusion of Distributed Classifers. , 2004, , 268-304.		3
120	Predicting Missing Parts in Time Series Using Uncertainty Theory. Lecture Notes in Computer Science, 2004, , 313-321.	1.3	2
121	Using the k-Nearest Problems for Adaptive Multicriteria Planning. Lecture Notes in Computer Science, 2004, , 132-141.	1.3	1
122	Multiobjective heuristic state-space planning. Artificial Intelligence, 2003, 145, 1-32.	5.8	28
123	â€œCultures in negotiationâ€: teachersâ€™ acceptance/resistance attitudes considering the infusion of technology into schools. Computers and Education, 2003, 41, 19-37.	8.3	144
124	Interbase-KB: Integrating a knowledge base system with a multidatabase system for data warehousing. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 1188-1205.	5.7	9
125	Using Logic for Querying XML Data. , 2003, , 1-35.		8
126	A Knowledge Based Approach on Educational Metadata Use. Lecture Notes in Computer Science, 2003, , 201-216.	1.3	1

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127	ExperNet: an intelligent multiagent system for WAN management. IEEE Intelligent Systems, 2002, 17, 62-72.	4.0	19
128	Smart VideoText: a video data model based on conceptual graphs. Multimedia Systems, 2002, 8, 328-338.	4.7	14
129	MACLP: multi agent constraint logic programming. Information Sciences, 2002, 144, 127-142.	6.9	5
130	On the Discovery of Weak Periodicities in Large Time Series. Lecture Notes in Computer Science, 2002, , 51-61.	1.3	28
131	A Heuristic for Planning Based on Action Evaluation. Lecture Notes in Computer Science, 2002, , 61-70.	1.3	4
132	Parallel planning via the distribution of operators. Journal of Experimental and Theoretical Artificial Intelligence, 2001, 13, 211-226.	2.8	10
133	FUNAGES: an expert system for fundus fluorescein angiography. Health Informatics Journal, 2001, 7, 214-221.	2.1	4
134	The GRT Planner: New Results. Lecture Notes in Computer Science, 2001, , 120-138.	1.3	0
135	Knowledge based evaluation of software systems: a case study. Information and Software Technology, 2000, 42, 333-345.	4.4	30
136	E-DEVICE: an extensible active knowledge base system with multiple rule type support. IEEE Transactions on Knowledge and Data Engineering, 2000, 12, 824-844.	5.7	15
137	GRT: A Domain Independent Heuristic for STRIPS Worlds Based on Greedy Regression Tables. Lecture Notes in Computer Science, 2000, , 347-359.	1.3	10
138	Controlling Performance Degradation Of Multistage Interconnection Networks With Non-Uniform Traffic. International Journal of Modelling and Simulation, 1999, 19, 244-249.	3.3	0
139	PARCIS: a robust parallel VLSI circuit simulator. Simulation Modelling Practice and Theory, 1999, 7, 91-103.	0.3	0
140	ESSE: an expert system for software evaluation. Knowledge-Based Systems, 1999, 12, 183-197.	7.1	39
141	OASys: An AND/OR parallel logic programming system. Parallel Computing, 1999, 25, 321-336.	2.1	2
142	Exploiting and-or parallelism in Prolog: The OASys computational model and abstract architecture. Journal of Systems and Software, 1998, 43, 45-57.	4.5	1
143	System architecture of a distributed expert system for the management of a national data network. Lecture Notes in Computer Science, 1998, , 438-451.	1.3	7
144	DEVICE: Compiling production rules into event-driven rules using complex events. Information and Software Technology, 1997, 39, 331-342.	4.4	12

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145	Processing production rules in DEVICE, an active knowledge base system. Data and Knowledge Engineering, 1997, 24, 117-155.	3.4	18
146	Hierarchical query execution in a parallel object-oriented database system. Parallel Computing, 1996, 22, 1017-1048.	2.1	5
147	Multiple OR-parallel resolution: Meta-level control of parallel logic programs. Lecture Notes in Computer Science, 1996, , 694-703.	1.3	0
148	PRACTIC: A concurrent object data model for a parallel object-oriented database system. Information Sciences, 1995, 86, 149-178.	6.9	6
149	COMFRESH: A common framework for expert systems and hypertext. Information Processing and Management, 1995, 31, 593-604.	8.6	2
150	CONSTRAINT CHECKING IN A PARALLEL OBJECT-ORIENTED DATABASE SYSTEM. International Journal of Parallel, Emergent and Distributed Systems, 1995, 5, 129-147.	0.4	1
151	A contribution to the problem of avoiding congestion in multistage networks in the presence of unbalanced traffic. Journal of Systems and Software, 1994, 26, 273-284.	4.5	2
152	A novel flow control and switching strategy for preventing hotspot congestion in multistage networks. Microprocessors and Microsystems, 1993, 17, 403-410.	2.8	0
153	An abstract prolog machine based on parallel resolution principle. Microprocessing and Microprogramming, 1992, 35, 755-762.	0.2	0
154	A parallel Prolog resolution based on multiple unifications. Parallel Computing, 1992, 18, 1275-1283.	2.1	1
155	Constraint Logic Programming on Multiple Processors. , 0, , 263-300.		0
156	Deep Reinforcement Learning: A State-of-the-Art Walkthrough. Journal of Artificial Intelligence Research, 0, 69, 1421-1471.	7.0	27
157	A Visual Programming Tool for Designing Planning Problems for Semantic Web Service Composition. , 0, , 302-326.		1