Ioannis N Athanasiadis

List of Publications by Year in descending order

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218592 214721 107 2,638 26 47 citations g-index h-index papers 119 119 119 3304 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Introducing digital twins to agriculture. Computers and Electronics in Agriculture, 2021, 184, 105942.	3.7	213
2	Agricultural production systems modelling and software: Current status and future prospects. Environmental Modelling and Software, 2015, 72, 276-286.	1.9	165
3	Towards a new generation of agricultural system data, models and knowledge products: Information and communication technology. Agricultural Systems, 2017, 155, 200-212.	3.2	143
4	Modelling with knowledge: A review of emerging semantic approaches to environmental modelling. Environmental Modelling and Software, 2009, 24, 577-587.	1.9	109
5	Fuzzy lattice reasoning (FLR) classifier and its application for ambient ozone estimation. International Journal of Approximate Reasoning, 2007, 45, 152-188.	1.9	108
6	Machine learning for large-scale crop yield forecasting. Agricultural Systems, 2021, 187, 103016.	3.2	107
7	A Hybrid Agent-Based Model for Estimating Residential Water Demand. Simulation, 2005, 81, 175-187.	1.1	106
8	Machine learning for ecosystem services. Ecosystem Services, 2018, 33, 165-174.	2.3	103
9	Towards globally customizable ecosystem service models. Science of the Total Environment, 2019, 650, 2325-2336.	3.9	91
10	A review of Agent Based Modeling for agricultural policy evaluation. Agricultural Systems, 2018, 164, 95-106.	3.2	90
11	Enabling reusability of plant phenomic datasets with MIAPPE 1.1. New Phytologist, 2020, 227, 260-273.	3.5	84
12	Eight grand challenges in socio-environmental systems modeling. Socio-Environmental Systems Modeling, 0, 2, 16226.	0.0	82
13	Environmental Data Science. Environmental Modelling and Software, 2018, 106, 4-12.	1.9	71
14	A database for integrated assessment of European agricultural systems. Environmental Science and Policy, 2009, 12, 573-587.	2.4	63
15	An agentâ€based intelligent environmental monitoring system. Management of Environmental Quality, 2004, 15, 238-249.	2.2	60
16	A Miniature Data Repository on a Raspberry Pi. Electronics (Switzerland), 2017, 6, 1.	1.8	50
17	Big data in agriculture: Between opportunity and solution. Agricultural Systems, 2022, 195, 103298.	3.2	47
18	Semantic links in integrated modelling frameworks. Mathematics and Computers in Simulation, 2008, 78, 412-423.	2.4	46

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19	Comparing regression, naive Bayes, and random forest methods in the prediction of individual survival to second lactation in Holstein cattle. Journal of Dairy Science, 2019, 102, 9409-9421.	1.4	46
20	Harmonization and translation of crop modeling data to ensure interoperability. Environmental Modelling and Software, 2014, 62, 495-508.	1.9	45
21	Blockchain Applications in the Agri-Food Domain: The First Wave. Frontiers in Blockchain, 2020, 3, .	1.6	43
22	Defining assessment projects and scenarios for policy support: Use of ontology in Integrated Assessment and Modelling. Environmental Modelling and Software, 2009, 24, 1491-1500.	1.9	40
23	Linking models for assessing agricultural land use change. Computers and Electronics in Agriculture, 2011, 76, 148-160.	3.7	40
24	Machine learning for regional crop yield forecasting in Europe. Field Crops Research, 2022, 276, 108377.	2.3	36
25	Data mining for agent reasoning: A synergy for training intelligent agents. Engineering Applications of Artificial Intelligence, 2007, 20, 1097-1111.	4.3	35
26	Privacy-preserving computation of participatory noise maps in the cloud. Journal of Systems and Software, 2014, 92, 170-183.	3.3	34
27	The misconception of ecosystem disservices: How a catchy term may yield the wrong messages for science and society. Ecosystem Services, 2014, 10, 52-53.	2.3	33
28	Machine learning for research on climate change adaptation policy integration: an exploratory UK case study. Regional Environmental Change, 2020, 20, 1.	1.4	31
29	The current and future uses of machine learning in ecosystem service research. Science of the Total Environment, 2021, 799, 149263.	3.9	25
30	A multi-agent system for meteorological radar data management and decision support. Environmental Modelling and Software, 2009, 24, 1264-1273.	1.9	23
31	A Component-Based Framework for Simulating Agricultural Production and Externalities. , 2010, , 63-108.		23
32	Conceptual advancement of socio-ecological modelling of ecosystem services for re-evaluating Brownfield land. Ecosystem Services, 2018, 33, 29-39.	2.3	23
33	Ontology for Seamless Integration of Agricultural Data and Models. Communications in Computer and Information Science, 2009, , 282-293.	0.4	22
34	A Privacy-Preserving Cloud Computing System for Creating Participatory Noise Maps., 2012,,.		19
35	Semantics for interoperability of distributed data and models: Foundations for better-connected information. F1000Research, 0, 6, 686.	0.8	19
36	Knowledge Discovery for Operational Decision Support in Air Quality Management. Journal of Environmental Informatics, 2007, 9, 100-107.	6.0	19

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37	Simulation-assisted machine learning for operational digital twins. Environmental Modelling and Software, 2022, 148, 105274.	1.9	19
38	Policy attention to climate change impacts, adaptation and vulnerability: a global assessment of National Communications (1994–2019). Climate Policy, 2022, 22, 97-111.	2.6	17
39	Social influence and water conservation: an agent-based approach. Computing in Science and Engineering, 2005, 7, 65-70.	1.2	15
40	A retraining methodology for enhancing agent intelligence. Knowledge-Based Systems, 2007, 20, 388-396.	4.0	14
41	A Framework for Constructing Multi-agent Applications and Training Intelligent Agents. Lecture Notes in Computer Science, 2004, , 96-109.	1.0	13
42	Chapter Twelve Data Mining for Environmental Systems. Developments in Integrated Environmental Assessment, 2008, , 205-228.	0.0	13
43	Pythia: A Privacy-Enhanced Personalized Contextual Suggestion System for Tourism. , 2015, , .		13
44	Domain-Driven Design of Big Data Systems Based on a Reference Architecture., 2017,, 49-68.		11
45	Air Quality Assessment Using Fuzzy Lattice Reasoning (FLR). , 2006, , .		10
46	Enriching environmental software model interfaces through ontology-based tools. International Journal of Applied Systemic Studies, 2011, 4, 94.	0.0	10
47	webXTREME: R -based web tool for calculating agroclimatic indices of extreme events. Computers and Electronics in Agriculture, 2017, 136, 111-116.	3.7	10
48	The Flows of Nature to People, and of People to Nature: Applying Movement Concepts to Ecosystem Services. Land, 2021, 10, 576.	1.2	10
49	Crop2ML: An open-source multi-language modeling framework for the exchange and reuse of crop model components. Environmental Modelling and Software, 2021, 142, 105055.	1.9	10
50	Ontologies, JavaBeans and Relational Databases for enabling semantic programming. Proceedings - IEEE Computer Society's International Computer Software and Applications Conference, 2007, , .	0.0	9
51	Chapter Seven Integrated Modelling Frameworks for Environmental Assessment and Decision Support. Developments in Integrated Environmental Assessment, 2008, , 101-118.	0.0	9
52	A Generic Farming System Simulator. , 2010, , 109-132.		9
53	An intelligent service layer upgrades environmental information management. IT Professional, 2006, 8, 34-39.	1.4	8
54	A Privacy-by-Design Contextual Suggestion System for Tourism. Journal of Sensor and Actuator Networks, 2016, 5, 10.	2.3	8

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55	Mixing process-based and data-driven approaches in yield prediction. European Journal of Agronomy, 2022, 139, 126569.	1.9	8
56	Indirectly driven knowledge modelling in ecology. International Journal of Metadata, Semantics and Ontologies, 2008, 3, 210.	0.2	7
57	A template framework for environmental timeseries data acquisition. Environmental Modelling and Software, 2019, 117, 237-249.	1.9	7
58	Impacts of Climate Variability and Change on Agricultural Systems in East Africa. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2015, , 75-124.	0.4	6
59	The Fuzzy Lattice Reasoning (FLR) Classifier for Mining Environmental Data. , 2007, , 175-193.		6
60	Towards a Virtual Enterprise Architecture for the Environmental Sector., 2008,, 256-266.		6
61	Simulating adaptation strategies to offset potential impacts of climate variability and change on maize yields in Embu County, Kenya. PLoS ONE, 2020, 15, e0241147.	1.1	6
62	A semantic approach for timeseries data fusion. Computers and Electronics in Agriculture, 2020, 169, 105171.	3.7	5
63	Improving predictive performance on survival in dairy cattle using an ensemble learning approach. Computers and Electronics in Agriculture, 2020, 177, 105675.	3.7	5
64	Towards a Semantically Unified Environmental Information Space. IFIP Advances in Information and Communication Technology, 2011, , 407-418.	0.5	5
65	Blockchain Applications in the Agri-Food Domain: The First Wave. Frontiers in Blockchain, 2020, 3, .	1.6	5
66	Information Technologies in Environmental Engineering. Environmental Science and Engineering, 2011, , .	0.1	4
67	Managing Variant Calling Files the Big Data Way. , 2017, , .		4
68	Invited review: Toward a common language in data-driven mastitis detection research. Journal of Dairy Science, 2021, 104, 10449-10461.	1.4	4
69	A Methodology for Developing Environmental Information Systems with Software Agents. , 2009, , 119-137.		4
70	A Web-Based Software System for Model Integration in Impact Assessments of Agricultural and Environmental Policies., 2010,, 207-234.		4
71	Publishing and Linking Semantically Annotated Agro-environmental Resources to LOD with AGROPub. Communications in Computer and Information Science, 2011, , 478-488.	0.4	4
72	Reuse of process-based models: automatic transformation into many programming languages and simulation platforms. In Silico Plants, 2020, 2, .	0.8	4

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7 3	A roadmap to domain specific programming languages for environmental modeling. , 2013, , .		3
74	Storing, combining and analysing turkey experimental data in the Big Data era. Animal, 2020, 14, 2397-2403.	1.3	3
7 5	Investigation of Common Big Data Analytics and Decision-Making Requirements Across Diverse Precision Agriculture and Livestock Farming Use Cases. IFIP Advances in Information and Communication Technology, 2020, , 139-150.	0.5	3
76	Introducing a Content Integration Process for a Federation of Agricultural Institutional Repositories. Communications in Computer and Information Science, 2011, , 467-477.	0.4	3
77	Feature Driven Survey of Big Data Systems. , 2016, , .		3
78	Defining and Classifying Infrastructural Contestation: Towards a Synergy Between Anthropology and Data Science. IFIP Advances in Information and Communication Technology, 2020, , 32-47.	0.5	3
79	Training Intelligent Agents in the Semantic Web Era: The Golf Advisor Agent. , 2007, , .		2
80	Application of Data Mining and Intelligent Agent Technologies to Concurrent Engineering. International Journal of Product Lifecycle Management, 2007, 2, 173.	0.1	2
81	Information Enrichment Using TaToo's Semantic Framework. Communications in Computer and Information Science, 2010, , 149-159.	0.4	2
82	A machine learning approach using random forest and LASSO to predict wine quality. International Journal of Sustainable Agricultural Management and Informatics, 2021, 7, 232.	0.1	2
83	Combining Telecom Data with Heterogeneous Data Sources for Traffic and Emission Assessments—An Agent-Based Approach. ISPRS International Journal of Geo-Information, 2022, 11, 366.	1.4	2
84	A retraining methodology for enhancing agent intelligence. , 0, , .		1
85	Publishing agro-environmental resources as linked data. International Journal of Metadata, Semantics and Ontologies, 2012, 7, 25.	0.2	1
86	Data Interoperability Tools for Regional Integrated Assessments. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2015, , 147-171.	0.4	1
87	A Sensor Observation Service Extension for Internet of Things. Lecture Notes in Computer Science, 2017, , 56-71.	1.0	1
88	Semantic Modeling in Farming Systems Research - The Case of the Agricultural Management Definition Module. Environmental Science and Engineering, 2007, , 417-432.	0.1	1
89	Identifying Smart Solutions for Fighting Illegal Logging and Timber Trade. IFIP Advances in Information and Communication Technology, 2013, , 143-153.	0.5	1
90	Towards a Virtual Enterprise Architecture for the Environmental Sector. , 0, , .		1

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91	Data Mining Methods for Quality Assurance in an Environmental Monitoring Network. Lecture Notes in Computer Science, 2010, , 451-456.	1.0	O
92	Top 10 reviewers for environmental modelling and software in 2015. Environmental Modelling and Software, 2016, 83, iii.	1.9	0
93	Spatial classification with fuzzy lattice reasoning. , 2017, , .		0
94	Location-Specific vs Location-Agnostic Machine Learning Metamodels for Predicting Pasture Nitrogen Response Rate. Lecture Notes in Computer Science, 2021, , 45-54.	1.0	0
95	Towards a Virtual Enterprise Architecture for the Environmental Sector. , 2008, , 368-378.		0
96	Interoperable Multimedia Annotation andÂRetrieval for the Tourism Sector. Communications in Computer and Information Science, 2015, , 65-76.	0.4	0
97	Editorial: The inaugural issue of Socio-Environmental Systems Modelling (SESMO). Socio-Environmental Systems Modeling, 0, 1, 16399.	0.0	0
98	Training Intelligent Agents in the Semantic Web Era: The Golf Advisor Agent. , 2007, , .		0
99	Title is missing!. , 2020, 15, e0241147.		0
100	Title is missing!. , 2020, 15, e0241147.		0
101	Title is missing!. , 2020, 15, e0241147.		0
102	Title is missing!. , 2020, 15, e0241147.		0
103	Title is missing!. , 2020, 15, e0241147.		0
104	Title is missing!. , 2020, 15, e0241147.		0
105	Title is missing!. , 2020, 15, e0241147.		0
106	Title is missing!. , 2020, 15, e0241147.		0
107	Towards a Virtual Enterprise Architecture for the Environmental Sector., 0,, 125-136.		0