

Kostas D Karatzas

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,390
citations

304743

22
h-index

233421

45
g-index

109
all docs

109
docs citations

109
times ranked

3158
citing authors

#	ARTICLE	IF	CITATIONS
1	Five ways to define a pollen season: exploring congruence and disparity in its attributes and their long-term trends. <i>Aerobiologia</i> , 2022, 38, 71-83.	1.7	2
2	Air Quality Sensors Systems as Tools to Support Guidance in Athletics Stadia for Elite and Recreational Athletes. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3561.	2.6	5
3	Learning Calibration Functions on the Fly: Hybrid Batch Online Stacking Ensembles for the Calibration of Low-Cost Air Quality Sensor Networks in the Presence of Concept Drift. <i>Atmosphere</i> , 2022, 13, 416.	2.3	12
4	Air Pollution Due to Central Heating of a City-Centered University Campus. <i>Progress in IS</i> , 2022, , 117-133.	0.6	0
5	Review of low-cost sensors for indoor air quality: Features and applications. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 747-779.	6.7	21
6	Machine learning for groundwater pollution source identification and monitoring network optimization. <i>Neural Computing and Applications</i> , 2022, 34, 19515-19545.	5.6	5
7	Deep Learning Modeling of Groundwater Pollution Sources. <i>Proceedings of the International Neural Networks Society</i> , 2021, , 165-177.	0.6	2
8	Analyzing and Improving the Performance of a Particulate Matter Low Cost Air Quality Monitoring Device. <i>Atmosphere</i> , 2021, 12, 251.	2.3	12
9	A Conceptual Model of Measurement Uncertainty in IoT Sensor Networks. <i>Sensors</i> , 2021, 21, 1827.	3.8	12
10	Citizens in the Loop for Air Quality Monitoring in Thessaloniki, Greece. <i>Progress in IS</i> , 2021, , 121-130.	0.6	2
11	Pollen season is reflected on symptom load for grass and birch pollen-induced allergic rhinitis in different geographic areas—An EAACI Task Force Report. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1099-1106.	5.7	34
12	The development of birch pollen seasons over 30 years in Munich, Germany—An EAACI Task Force report*. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3024-3026.	5.7	9
13	Citizen science and sustainability transitions. <i>Research Policy</i> , 2020, 49, 103978.	6.4	117
14	Pollen season identification for three pollen taxa in Thessaloniki, Greece: a 30-year retrospective analysis. <i>Aerobiologia</i> , 2019, 35, 659-669.	1.7	9
15	The evaluation of pollen concentrations with statistical and computational methods on rooftop and on ground level in Vienna — How to include daily crowd-sourced symptom data. <i>World Allergy Organization Journal</i> , 2019, 12, 100036.	3.5	20
16	Modelling of household electricity consumption with the aid of computational intelligence methods. <i>Advances in Building Energy Research</i> , 2018, 12, 84-96.	2.3	10
17	Computational validation of the recently proposed pollen season definition criteria. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 5-7.	5.7	20
18	Google Trends reflect allergic rhinitis symptoms related to birch and grass pollen seasons. <i>Aerobiologia</i> , 2018, 34, 437-444.	1.7	12

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19	Revisiting urban air quality forecasting: a regression approach. Vietnam Journal of Computer Science, 2018, 5, 177-184.	1.2	13
20	New European Academy of Allergy and Clinical Immunology definition on pollen season mirrors symptom load for grass and birch pollen-induced allergic rhinitis. Allergy: European Journal of Allergy and Clinical Immunology, 2018, 73, 1851-1859.	5.7	44
21	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise " Part II. Atmospheric Environment, 2018, 193, 127-142.	4.1	72
22	Assessing the Relocation Robustness of on Field Calibrations for Air Quality Monitoring Devices. Lecture Notes in Electrical Engineering, 2018, , 303-312.	0.4	3
23	An Ontology-Based Decision Support Framework for Personalized Quality of Life Recommendations. Lecture Notes in Business Information Processing, 2018, , 38-51.	1.0	4
24	Decision Processes Based on IoT Data for Sustainable Smart Cities. Lecture Notes in Computer Science, 2018, , 136-146.	1.3	1
25	Adaptation of an ANN-Based Air Quality Forecasting Model to a New Application Area. Studies in Computational Intelligence, 2017, , 479-488.	0.9	3
26	Is on field calibration strategy robust to relocation?. , 2017, , .		3
27	Urban Air Quality Forecasting: A Regression and a Classification Approach. Lecture Notes in Computer Science, 2017, , 539-548.	1.3	2
28	A New Feature Selection Methodology for Environmental Modelling Support: The Case of Thessaloniki Air Quality. IFIP Advances in Information and Communication Technology, 2017, , 61-70.	0.7	2
29	A Generic Preprocessing Optimization Methodology when Predicting Time-Series Data. International Journal of Computational Intelligence Systems, 2016, 9, 638-651.	2.7	1
30	Outdoor air pollution and ischemic stroke severity: An ecological study in Thessaloniki. Atherosclerosis, 2016, 252, e22.	0.8	0
31	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. Atmospheric Environment, 2016, 147, 246-263.	4.1	182
32	Environmental data extraction from heatmaps using the AirMerge system. Multimedia Tools and Applications, 2016, 75, 1589-1613.	3.9	3
33	Guest Editorial: Environmental Multimedia Retrieval. Multimedia Tools and Applications, 2016, 75, 1557-1562.	3.9	0
34	Computational intelligence methods for rolling bearing fault detection. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1565-1574.	1.6	6
35	Getting the environmental information across: from the Web to the user. Expert Systems, 2015, 32, 405-432.	4.5	4
36	Fusion of meteorological and air quality data extracted from the web for personalized environmental information services. Environmental Modelling and Software, 2015, 64, 143-155.	4.5	39

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37	Personalized symptoms forecasting for pollen-induced allergic rhinitis sufferers. <i>International Journal of Biometeorology</i> , 2015, 59, 889-897.	3.0	15
38	Predicting daily ragweed pollen concentrations using Computational Intelligence techniques over two heavily polluted areas in Europe. <i>Science of the Total Environment</i> , 2014, 476-477, 542-552.	8.0	28
39	The patient's hay-fever diary: three years of results from Germany. <i>Aerobiologia</i> , 2014, 30, 1-11.	1.7	32
40	A model for environmental data extraction from multimedia and its evaluation against various chemical weather forecasting datasets. <i>Ecological Informatics</i> , 2014, 23, 69-82.	5.2	5
41	Investigating the Relationship between Social Media Content and Real-time Observations for Urban Air Quality and Public Health. , 2014, , .		5
42	Analysis and forecasting of airborne pollen-induced symptoms with the aid of computational intelligence methods. <i>Aerobiologia</i> , 2013, 29, 175-185.	1.7	21
43	Presentation and Dissemination of Pollen Information. , 2013, , 217-247.		10
44	Personalized pollen-related symptom-forecast information services for allergic rhinitis patients in Europe. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013, 68, 963-965.	5.7	27
45	Monitoring, Modelling and Forecasting of the Pollen Season. , 2013, , 71-126.		39
46	Environmental data extraction from multimedia resources. , 2012, , .		9
47	A review of operational, regional-scale, chemical weather forecasting models in Europe. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1-87.	4.9	265
48	Interactions of Physical, Chemical, and Biological Weather Calling for an Integrated Approach to Assessment, Forecasting, and Communication of Air Quality. <i>Ambio</i> , 2012, 41, 851-864.	5.5	26
49	Extraction of Environmental Data from On-Line Environmental Information Sources. <i>International Federation for Information Processing</i> , 2012, , 361-370.	0.4	4
50	Investigation and Forecasting of the Common Air Quality Index in Thessaloniki, Greece. <i>International Federation for Information Processing</i> , 2012, , 390-400.	0.4	8
51	Personalized Environmental Service Orchestration for Quality of Life Improvement. <i>International Federation for Information Processing</i> , 2012, , 351-360.	0.4	3
52	Intercomparison of air quality data using principal component analysis, and forecasting of PM10 and PM2.5 concentrations using artificial neural networks, in Thessaloniki and Helsinki. <i>Science of the Total Environment</i> , 2011, 409, 1266-1276.	8.0	204
53	A European open access chemical weather forecasting portal. <i>Atmospheric Environment</i> , 2011, 45, 6917-6922.	4.1	20
54	Monitoring the long-range transport effects on urban PM10 levels using 3D clusters of backward trajectories. <i>Atmospheric Environment</i> , 2011, 45, 2630-2641.	4.1	54

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55	Sparse episode identification in environmental datasets: The case of air quality assessment. <i>Expert Systems With Applications</i> , 2011, 38, 5019-5027.	7.6	13
56	Participatory Environmental Sensing for Quality of Life Information Services. <i>Environmental Science and Engineering</i> , 2011, , 123-133.	0.2	6
57	A New Environmental Image Processing Method for Chemical Weather Forecasts in Europe. <i>Environmental Science and Engineering</i> , 2011, , 781-791.	0.2	5
58	A European Chemical Weather Forecasting Portal. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 239-243.	0.2	3
59	Software Architectures for Distributed Environmental Modeling. <i>IFIP Advances in Information and Communication Technology</i> , 2011, , 255-260.	0.7	1
60	Investigation of Medication Dosage Influences from Biological Weather. <i>International Federation for Information Processing</i> , 2011, , 481-490.	0.4	0
61	Forecasting daily pollen concentrations using data-driven modeling methods in Thessaloniki, Greece. <i>Atmospheric Environment</i> , 2010, 44, 5101-5111.	4.1	49
62	Data-based method for creating electricity use load profiles using large amount of customer-specific hourly measured electricity use data. <i>Applied Energy</i> , 2010, 87, 3538-3545.	10.1	172
63	Forecasting airborne pollen concentration of Poaceae (Grass) and Oleaceae (Olive), using Artificial Neural Networks and Genetic algorithms, in Thessaloniki, Greece. , 2010, , .		2
64	Application of Computational Intelligence to the Analysis of Friction Measurements. <i>Tribology Transactions</i> , 2010, 53, 748-754.	2.0	1
65	Airborne pollen in three European cities: Detection of atmospheric circulation pathways by applying three-dimensional clustering of backward trajectories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
66	Investigating Pollen Data with the Aid of Fuzzy Methods. <i>Lecture Notes in Computer Science</i> , 2010, , 464-470.	1.3	2
67	ARTIFICIAL INTELLIGENCE APPLICATIONS IN THE ATMOSPHERIC ENVIRONMENT: STATUS AND FUTURE TRENDS. <i>Environmental Engineering and Management Journal</i> , 2010, 9, 171-180.	0.6	10
68	Predicting QoL Parameters for the Atmospheric Environment in Athens, Greece. <i>Lecture Notes in Computer Science</i> , 2010, , 457-463.	1.3	0
69	Effect of Long-Range Transport on Urban PM10 Levels. <i>Epidemiology</i> , 2009, 20, S97.	2.7	0
70	Informing the public about atmospheric quality: air pollution and pollen. <i>Allergo Journal</i> , 2009, 18, 212-217.	0.1	16
71	Understanding and Forecasting Air Pollution with the Aid of Artificial Intelligence Methods in Athens, Greece. <i>Studies in Computational Intelligence</i> , 2009, , 37-50.	0.9	2
72	An Experimental Evaluation of ZCS-DM for the Prediction of Urban Air Quality. <i>Environmental Science and Engineering</i> , 2009, , 291-304.	0.2	3

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73	COST ES0602: towards a European network on chemical weather forecasting and information systems. <i>Advances in Science and Research</i> , 2009, 3, 27-33.	1.0	14
74	Using Preprocessing Techniques in Air Quality forecasting with Artificial Neural Networks. <i>Environmental Science and Engineering</i> , 2009, , 357-372.	0.2	5
75	Urban Environmental Information Perception and Multimodal Communication: The Air Quality Example. <i>Lecture Notes in Computer Science</i> , 2009, , 288-299.	1.3	4
76	Chapter Fourteen Computational Air Quality Modelling. <i>Developments in Integrated Environmental Assessment</i> , 2008, 3, 247-267.	0.0	5
77	Understanding and forecasting atmospheric quality parameters with the aid of ANNs. , 2008, , .		11
78	Using data-mining techniques for PM ₁₀ forecasting in the metropolitan area of Thessaloniki, Greece. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007, , .	0.0	10
79	Air pollution modelling with the aid of computational intelligence methods in Thessaloniki, Greece. <i>Simulation Modelling Practice and Theory</i> , 2007, 15, 1310-1319.	3.8	52
80	PM ₁₀ forecasting for Thessaloniki, Greece. <i>Environmental Modelling and Software</i> , 2006, 21, 559-565.	4.5	105
81	A modelling study of an extraordinary night time ozone episode over Madrid domain. <i>Environmental Modelling and Software</i> , 2005, 20, 587-593.	4.5	30
82	Internet-Based Management of Environmental Simulation Tasks. , 2005, , 253-262.		5
83	Environmental Information Systems and the Concept of Environmental Informatics. <i>Advanced Information and Knowledge Processing</i> , 2004, , 3-9.	0.3	4
84	Identification of major components for integrated urban air quality management and information systems via user requirements prioritisation. <i>Environmental Modelling and Software</i> , 2003, 18, 173-178.	4.5	11
85	Investigating weekend air quality observations with the aid of Fourier analysis in Athens, Greece. <i>International Journal of Environment and Pollution</i> , 2003, 19, 171.	0.2	3
86	Correlation of air pollution and meteorological data using neural networks. <i>International Journal of Environment and Pollution</i> , 2003, 20, 218.	0.2	7
87	Tunnel fire smoke modelling for emergency management. <i>International Journal of Risk Assessment and Management</i> , 2003, 4, 52.	0.1	1
88	Evaluation of an attached sunspace without sun protection: How feasible is this approach in mediterranean summer conditions?. <i>International Journal of Solar Energy</i> , 2002, 22, 93-104.	0.2	7
89	On the influence of sea-surface temperature on mesoscale flows: an example from the city of Athens. <i>International Journal of Environment and Pollution</i> , 2002, 18, 85.	0.2	0
90	Statistical analysis of environmental data as the basis of forecasting: an air quality application. <i>Science of the Total Environment</i> , 2002, 288, 227-237.	8.0	66

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91	Providing multi-modal access to environmental data – customizable information services for disseminating urban air quality information in APNEE. Computers, Environment and Urban Systems, 2002, 26, 39-61.	7.1	20
92	Feasibility of energy saving renovation measures in urban buildings. Energy and Buildings, 2002, 34, 455-466.	6.7	116
93	A multimedia application for EIA studies. IEEE MultiMedia, 2001, 8, 71-75.	1.7	1
94	Web-based tools for environmental management. Management of Environmental Quality, 2001, 12, 356-363.	0.4	6
95	The air quality Model Documentation System of the European Environment Agency. International Journal of Environment and Pollution, 2000, 14, 10.	0.2	8
96	Development of a hierarchical system for the teletransmission of environmental and energy data. Telematics and Informatics, 2000, 17, 239-249.	5.8	9
97	Title is missing!. Environmental Monitoring and Assessment, 2000, 65, 451-458.	2.7	8
98	URBAN AIR QUALITY MANAGEMENT AND INFORMATION SYSTEMS IN EUROPE: LEGAL FRAMEWORK AND INFORMATION ACCESS. Journal of Environmental Assessment Policy and Management, 2000, 02, 263-272.	7.9	9
99	Preservation of environmental characteristics as witnessed in classic and modern literature: the case of Greece. Science of the Total Environment, 2000, 257, 213-218.	8.0	8
100	Assessing the impact of the New Athens airport to urban air quality with contemporary air pollution models. Atmospheric Environment, 1997, 31, 1497-1511.	4.1	39
101	Smaller Scale Modelling of Air Pollutant Transport, Transformation and Deposition in Europe. , 1997, , 73-120.		1
102	Atmospheric Environment and Quality of Life Information Extraction from Twitter with the Use of Self-Organizing Maps. Journal of Environmental Informatics, 0, , .	6.0	1