Andreas Holzinger

List of Publications by Year
in descending order

425 papers	15,308 citations	26567 56 h-index	34900 98 g-index
461 all docs	461 docs citations	461 times ranked	12184 citing authors

#	Article	IF	Citations
1	Deep ROC Analysis and AUC as Balanced Average Accuracy, for Improved Classifier Selection, Audit and Explanation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 329-341.	9.7	65
2	Influencing the Actin Dynamics in Plant Cells by Jasplakinolide, Chondramides, Phalloidin, Cytochalasins, and Latrunculins. Methods in Molecular Biology, 2022, 2364, 177-198.	0.4	2
3	The augmented radiologist: artificial intelligence in the practice of radiology. Pediatric Radiology, 2022, 52, 2074-2086.	1.1	28
4	Information fusion as an integrative cross-cutting enabler to achieve robust, explainable, and trustworthy medical artificial intelligence. Information Fusion, 2022, 79, 263-278.	11.7	100
5	Search for evolutionary roots of land plant arabinogalactanâ€proteins in charophytes: presence of a rhamnogalactanâ€protein in <i>Spirogyra pratensis</i> (Zygnematophyceae). Plant Journal, 2022, 109, 568-584.	2.8	18
6	Towards a Taxonomy for Explainable AI in Computational Pathology. , 2022, , 311-330.		2
7	State-of-the-Art Explainability Methods with Focus on Visual Analytics Showcased by Glioma Classification. BioMedInformatics, 2022, 2, 139-158.	1.0	14
8	Explainable artificial intelligence (XAI): closing the gap between image analysis and navigation in complex invasive diagnostic procedures. World Journal of Urology, 2022, 40, 1125-1134.	1.2	5
9	Federated Random Forests can improve local performance of predictive models for various healthcare applications. Bioinformatics, 2022, 38, 2278-2286.	1.8	23
10	Timaviella dunensis sp. nov. from sand dunes of the Baltic Sea, Germany, and emendation of Timaviella edaphica (Elenkin) O.M. Vynogr. &amp; Mikhailyuk (Synechococcales, Cyanobacteria) based on an integrative approach. Phytotaxa, 2022, 532, 192-208.	0.1	6
11	Personas for Artificial Intelligence (AI) an Open Source Toolbox. IEEE Access, 2022, 10, 23732-23747.	2.6	19
12	The explainability paradox: Challenges for xAI in digital pathology. Future Generation Computer Systems, 2022, 133, 281-296.	4.9	42
13	xxAI - Beyond Explainable Artificial Intelligence. Lecture Notes in Computer Science, 2022, , 3-10.	1.0	15
14	Towards Explainability for AI Fairness. Lecture Notes in Computer Science, 2022, , 375-386.	1.0	5
15	Explainable AI Methods - A Brief Overview. Lecture Notes in Computer Science, 2022, , 13-38.	1.0	77
16	Digital Transformation in Smart Farm and Forest Operations Needs Human-Centered AI: Challenges and Future Directions. Sensors, 2022, 22, 3043.	2.1	37
17	Acquisition of desiccation tolerance in Haematococcus pluvialis requires photosynthesis and coincides with lipid and astaxanthin accumulation. Algal Research, 2022, 64, 102699.	2.4	11
18	Photophysiological investigations of the temperature stress responses of <i>Zygnema</i> spp (Zygnematophyceae) from subpolar and polar habitats (Iceland, Svalbard). Phycologia, 2022, 61, 299-311.	0.6	6

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19	Metabolite Profiling in Green Microalgae with Varying Degrees of Desiccation Tolerance. Microorganisms, 2022, 10, 946.	1.6	3
20	Explainability and causability for artificial intelligence-supported medical image analysis in the context of the European In Vitro Diagnostic Regulation. New Biotechnology, 2022, 70, 67-72.	2.4	26
21	Robust Random Forest-Based All-Relevant Feature Ranks for Trustworthy AI. Studies in Health Technology and Informatics, 2022, , .	0.2	7
22	Fairness and Explanation in AI-Informed Decision Making. Machine Learning and Knowledge Extraction, 2022, 4, 556-579.	3.2	49
23	Ecophysiological and ultrastructural characterisation of the circumpolar orange snow alga Sanguina aurantia compared to the cosmopolitan red snow alga Sanguina nivaloides (Chlorophyta). Polar Biology, 2021, 44, 105-117.	0.5	9
24	Recommender systems in the healthcare domain: state-of-the-art and research issues. Journal of Intelligent Information Systems, 2021, 57, 171-201.	2.8	110
25	Towards Visual Concept Learning and Reasoning: On Insights into Representative Approaches. Studies in Computational Intelligence, 2021, , 59-68.	0.7	0
26	Digital Transformation for Sustainable Development Goals (SDGs) - A Security, Safety and Privacy Perspective on AI. Lecture Notes in Computer Science, 2021, , 1-20.	1.0	30
27	Terrestrial Green Algae Show Higher Tolerance to Dehydration than Do Their Aquatic Sister-Species. Microbial Ecology, 2021, 82, 770-782.	1.4	16
28	Characterization of Two Zygnema Strains (Zygnema circumcarinatum SAG 698-1a and SAG 698-1b) and a Rapid Method to Estimate Nuclear Genome Size of Zygnematophycean Green Algae. Frontiers in Plant Science, 2021, 12, 610381.	1.7	10
29	AI and Big Data in Healthcare: Towards a More Comprehensive Research Framework for Multimorbidity. Journal of Clinical Medicine, 2021, 10, 766.	1.0	42
30	Ecophysiological, morphological, and biochemical traits of free-living Diplosphaera chodatii (Trebouxiophyceae) reveal adaptation to harsh environmental conditions. Protoplasma, 2021, 258, 1187-1199.	1.0	11
31	Contrasting endolithic habitats for cyanobacteria in spring calcites of the European Alps. Nova Hedwigia, 2021, 112, 17-48.	0.2	0
32	Mutation-based clustering and classification analysis reveals distinctive age groups and age-related biomarkers for glioma. BMC Medical Informatics and Decision Making, 2021, 21, 77.	1.5	11
33	Evaluating the Quality of Machine Learning Explanations: A Survey on Methods and Metrics. Electronics (Switzerland), 2021, 10, 593.	1.8	187
34	Classification by ordinal sums of conjunctive and disjunctive functions for explainable AI and interpretable machine learning solutions. Knowledge-Based Systems, 2021, 220, 106916.	4.0	34
35	Cell wall characteristics during sexual reproduction of Mougeotia sp. (Zygnematophyceae) revealed by electron microscopy, glycan microarrays and RAMAN spectroscopy. Protoplasma, 2021, 258, 1261-1275.	1.0	24
36	Enhanced culturing techniques for the mycobiont isolated from the lichen Xanthoria parietina. Mycological Progress, 2021, 20, 797-808.	0.5	7

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37	Predicting prostate cancer specific-mortality with artificial intelligence-based Gleason grading. Communications Medicine, 2021, 1, .	1.9	24
38	The red alga Tsunamia transpacifica (Stylonematophyceae) from plastic drift shows adaptation to its uncommon habitat in ultrastructure and soluble low molecular weight carbohydrate composition. Protoplasma, 2021, 258, 1307-1321.	1.0	4
39	Towards multi-modal causability with Graph Neural Networks enabling information fusion for explainable AI. Information Fusion, 2021, 71, 28-37.	11.7	210
40	The Ten Commandments of Ethical Medical AI. Computer, 2021, 54, 119-123.	1.2	62
41	Emendation of the Coccoid Cyanobacterial Genus Gloeocapsopsis and Description of the New Species Gloeocapsopsis diffluens sp. nov. and Gloeocapsopsis dulcis sp. nov. Isolated From the Coastal Range of the Atacama Desert (Chile). Frontiers in Microbiology, 2021, 12, 671742.	1.5	11
42	Winter survival of the unicellular green alga Micrasterias denticulata: insights from field monitoring and simulation experiments. Protoplasma, 2021, 258, 1335-1346.	1.0	7
43	Induction of Conjugation and Zygospore Cell Wall Characteristics in the Alpine Spirogyra mirabilis (Zygnematophyceae, Charophyta): Advantage under Climate Change Scenarios?. Plants, 2021, 10, 1740.	1.6	12
44	Legal aspects of data cleansing in medical AI. Computer Law and Security Review, 2021, 42, 105587.	1.3	19
45	Thorsmoerkia curvula gen. et spec. nov. (Trebouxiophyceae, Chlorophyta), a semi-terrestrial microalga from Iceland exhibits high levels of unsaturated fatty acids. Journal of Applied Phycology, 2021, 33, 3671-3682.	1.5	3
46	Ultrastructure of plant cells. Protoplasma, 2021, 258, 1167-1169.	1.0	0
47	Toward Human–AI Interfaces to Support Explainability and Causability in Medical AI. Computer, 2021, 54, 78-86.	1.2	52
48	Kandinsky Patterns. Artificial Intelligence, 2021, 300, 103546.	3.9	13
49	Explainable AI and Multi-Modal Causability in Medicine. I-com, 2021, 19, 171-179.	0.9	42
50	Medical artificial intelligence. Communications of the ACM, 2021, 64, 34-36.	3.3	39
51	Human exposome assessment platform. Environmental Epidemiology, 2021, 5, e182.	1.4	7
52	Open Data to Support CANCER Science—A Bioinformatics Perspective on Glioma Research. Onco, 2021, 1, 219-229.	0.2	1
53	The Next Frontier: AI We Can Really Trust. Communications in Computer and Information Science, 2021, , 427-440.	0.4	51
54	Operational framework and training standard requirements for AI–empowered robotic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, 1-13.	1.2	11

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55	Winter Nights during Summer Time: Stress Physiological Response to Ice and the Facilitation of Freezing Cytorrhysis by Elastic Cell Wall Components in the Leaves of a Nival Species. International Journal of Molecular Sciences, 2020, 21, 7042.	1.8	14
56	Understanding the algae to land plant transition. Journal of Experimental Botany, 2020, 71, 3241-3246.	2.4	9
57	Ursula LÃ¼tz-Meindl (1956â€"2020): a devoted plant cell biologist. Protoplasma, 2020, 257, 1017-1018.	1.0	2
58	Phytohormone release by three isolated lichen mycobionts and the effects of indole-3-acetic acid on their compatible photobionts. Symbiosis, 2020, 82, 95-108.	1.2	7
59	Adaptation to Aquatic and Terrestrial Environments in Chlorella vulgaris (Chlorophyta). Frontiers in Microbiology, 2020, 11, 585836.	1.5	13
60	Cell Wall Reinforcements Accompany Chilling and Freezing Stress in the Streptophyte Green Alga Klebsormidium crenulatum. Frontiers in Plant Science, 2020, 11, 873.	1.7	19
61	Abundance and Extracellular Release of Phytohormones in Aeroâ€terrestrial Microalgae (Trebouxiophyceae, Chlorophyta) As a Potential Chemical Signaling Source 1. Journal of Phycology, 2020, 56, 1295-1307.	1.0	19
62	Pre-akinete formation in Zygnema sp. from polar habitats is associated with metabolite re-arrangement. Journal of Experimental Botany, 2020, 71, 3314-3322.	2.4	25
63	Measuring the Quality of Explanations: The System Causability Scale (SCS). KI - Kunstliche Intelligenz, 2020, 34, 193-198.	2.2	173
64	Ecophysiological changes and spore formation: two strategies in response to lowâ€temperature and highâ€light stress in <i>Klebsormidium</i> cf. <i>flaccidum</i> (Klebsormidiophyceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 Td (St	1.0	8
65	Desiccation tolerance in streptophyte algae and the algae to land plant transition: evolution of LEA and MIP protein families within the Viridiplantae. Journal of Experimental Botany, 2020, 71, 3270-3278.	2.4	23
66	A new concordant partial AUC and partial c statistic for imbalanced data in the evaluation of machine learning algorithms. BMC Medical Informatics and Decision Making, 2020, 20, 4.	1.5	97
67	Human Annotated Dialogues Dataset for Natural Conversational Agents. Applied Sciences (Switzerland), 2020, 10, 762.	1.3	7
68	Dictyosphaerium â€like morphotype in terrestrial algae: what is Xerochlorella (Trebouxiophyceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	11
69	Open Data for Differential Network Analysis in Glioma. International Journal of Molecular Sciences, 2020, 21, 547.	1.8	9
70	A new technical approach for preparing frozen biological samples for electron microscopy. Plant Methods, 2020, 16, 48.	1.9	7
71	Klebsormidin A and B, Two New UV-Sunscreen Compounds in Green Microalgal Interfilum and Klebsormidium Species (Streptophyta) From Terrestrial Habitats. Frontiers in Microbiology, 2020, 11, 499.	1.5	26
72	Towards a Better Understanding of the Workflows: Modeling Pathology Processes in View of Future AI Integration. Lecture Notes in Computer Science, 2020, , 102-117.	1.0	5

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73	Image Processing and Machine Learning Techniques for Diabetic Retinopathy Detection: A Review. Lecture Notes in Computer Science, 2020, , 136-154.	1.0	6
74	Explainable Artificial Intelligence: Concepts, Applications, Research Challenges and Visions. Lecture Notes in Computer Science, 2020, , 1-16.	1.0	72
75	The European Legal Framework for Medical AI. Lecture Notes in Computer Science, 2020, , 209-226.	1.0	44
76	Property-Based Testing for Parameter Learning of Probabilistic Graphical Models. Lecture Notes in Computer Science, 2020, , 499-515.	1.0	5
77	Privacy-Enabled Smart Home Framework with Voice Assistant. Computer Communications and Networks, 2020, , 321-339.	0.8	17
78	Visualization of Decision Making in Digital Pathology as Educational Tool. , 2020, , .		1
79	Fuzzy Image Processing and Deep Learning for Microaneurysms Detection. Lecture Notes in Computer Science, 2020, , 321-339.	1.0	2
80	Developments in AI and Machine Learning for Neuroimaging. Lecture Notes in Computer Science, 2020, , 307-320.	1.0	1
81	Expectations of Artificial Intelligence for Pathology. Lecture Notes in Computer Science, 2020, , 1-15.	1.0	3
82	Performing Arithmetic Using a Neural Network Trained on Digit Permutation Pairs. Lecture Notes in Computer Science, 2020, , 255-264.	1.0	0
83	Classification and Visualization of Patterns in Medical Images. , 2020, , .		1
84	Reconstruct and Visualise Hierarchical Relationships in Whole Slide Images. , 2020, , .		0
85	Light and Dehydration but Not Temperature Drive Photosynthetic Adaptations of Basal Streptophytes (Hormidiella, Streptosarcina and Streptofilum) Living in Terrestrial Habitats. Microbial Ecology, 2019, 77, 380-393.	1.4	19
86	The conjugating green alga Zygnema sp. (Zygnematophyceae) from the Arctic shows high frost tolerance in mature cells (pre-akinetes). Protoplasma, 2019, 256, 1681-1694.	1.0	43
87	Big Data Calls for Machine Learning. , 2019, , 258-264.		8
88	The role of artificial intelligence and machine learning in harmonization of high-resolution post-mortem MRI (virtopsy) with respect to brain microstructure. Brain Informatics, 2019, 6, 3.	1.8	20
89	Metatranscriptomic and metabolite profiling reveals vertical heterogeneity within a <i>Zygnema</i> green algal mat from Svalbard (High Arctic). Environmental Microbiology, 2019, 21, 4283-4299.	1.8	31
90	Visualizing Uncertainty for Comparing Genomic Pediatric Brain Cancer Data. , 2019, , .		2

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91	Dialogue Systems for Intelligent Human Computer Interactions. Electronic Notes in Theoretical Computer Science, 2019, 343, 57-71.	0.9	31
92	Use case driven evaluation of open databases for pediatric cancer research. BioData Mining, 2019, 12, 2.	2.2	15
93	Why imaging data alone is not enough: AI-based integration of imaging, omics, and clinical data. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2722-2730.	3.3	69
94	Homogalacturonan Accumulation in Cell Walls of the Green Alga Zygnema sp. (Charophyta) Increases Desiccation Resistance. Frontiers in Plant Science, 2019, 10, 540.	1.7	56
95	Biomedical image augmentation using Augmentor. Bioinformatics, 2019, 35, 4522-4524.	1.8	174
96	Developments in Transduction, Connectivity and AI/Machine Learning for Point-of-Care Testing. Sensors, 2019, 19, 1917.	2.1	15
97	New record of the rare genus Crinalium Crow (Oscillatoriales, Cyanobacteria) from sand dunes of the Baltic Sea, Germany: epitypification and emendation of Crinalium magnum Fritsch et John based on an integrative approach. Phytotaxa, 2019, 400, 165.	0.1	11
98	Arabinogalactan Proteins and the Extracellular Matrix of Charophytes: A Sticky Business. Frontiers in Plant Science, 2019, 10, 447.	1.7	39
99	Causability and explainability of artificial intelligence in medicine. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1312.	4.6	647
100	Teaming up with Artificial Intelligence: The Human in the Loop of Serious Game Pathfinding Algorithms. Lecture Notes in Computer Science, 2019, , 354-363.	1.0	1
101	Importance of medical data preprocessing in predictive modeling and risk factor discovery for the frailty syndrome. BMC Medical Informatics and Decision Making, 2019, 19, 33.	1.5	43
102	Towards a Deeper Understanding of How a Pathologist Makes a Diagnosis: Visualization of the Diagnostic Process in Histopathology. , 2019, , .		10
103	Visualization of Histopathological Decision Making Using a Roadbook Metaphor. , 2019, , .		9
104	NLP for the Generation of Training Data Sets for Ontology-Guided Weakly-Supervised Machine Learning in Digital Pathology. , 2019, , .		3
105	Legal, regulatory, and ethical frameworks for development of standards in artificial intelligence (AI) and autonomous robotic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2019, 15, e1968.	1.2	184
106	Interactive machine learning: experimental evidence for the human in the algorithmic loop. Applied Intelligence, 2019, 49, 2401-2414.	3.3	151
107	KANDINSKY Patterns as IQ-Test for Machine Learning. Lecture Notes in Computer Science, 2019, , 1-14.	1.0	16
108	Machine Learning for Family Doctors: A Case of Cluster Analysis for Studying Aging Associated Comorbidities and Frailty. Lecture Notes in Computer Science, 2019, , 178-194.	1.0	8

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109	Insights into Learning Competence Through Probabilistic Graphical Models. Lecture Notes in Computer Science, 2019, , 250-271.	1.0	10
110	Detection of Diabetic Retinopathy and Maculopathy in Eye Fundus Images Using Deep Learning and Image Augmentation. Lecture Notes in Computer Science, 2019, , 114-127.	1.0	10
111	A glass-box interactive machine learning approach for solving NP-hard problems with the human-in-the-loop. Creative Mathematics and Informatics, 2019, 28, 121-134.	0.0	10
112	Acceptance of Virtual Health Avatars. , 2019, , .		1
113	Interactive Ant Colony Optimization to Support Adaptation in Serious Games. International Journal of Serious Games, 2019, 6, 37-50.	0.8	6
114	Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. Journal of Cell Science, 2018, 131, .	1.2	30
115	Single colony genetic analysis of epilithic stream algae of the genus Chamaesiphon spp.. Hydrobiologia, 2018, 811, 61-75.	1.0	19
116	Solar irradiation levels during simulated longâ€•and shortâ€•term heat waves significantly influence heat survival, pigment and ascorbate composition, and free radical scavenging activity in alpine <i>Vaccinium gaultherioides</i>. Physiologia Plantarum, 2018, 163, 211-230.	2.6	7
117	In silico cancer research towards 3R. BMC Cancer, 2018, 18, 408.	1.1	83
118	Metabolic syndrome in hypertensive women in the age of menopause: a case study on data from general practice electronic health records. BMC Medical Informatics and Decision Making, 2018, 18, 24.	1.5	10
119	Dimensionality Reduction for Exploratory Data Analysis in Daily Medical Research. Smart Innovation, Systems and Technologies, 2018, , 3-20.	0.5	4
120	New Taxa of Streptophyte Algae (Streptophyta) from Terrestrial Habitats Revealed Using an Integrative Approach. Protist, 2018, 169, 406-431.	0.6	30
121	Epilithic Chamaesiphon (Synechococcales, Cyanobacteria) species in mountain streams of the Alpsâ€"interspecific differences in photo-physiological traits. Journal of Applied Phycology, 2018, 30, 1125-1134.	1.5	10
122	Virtual autopsy: Machine Learning and Artificial Intelligence provide new opportunities for investigating minimal tumor burden and therapy resistance by cancer patients. Autopsy and Case Reports, 2018, 8, e2018003.	0.2	5
123	A Conceptual framework for Adaptive User Interfaces for older adults. , 2018, , .		15
124	A Deep Learning Approach for Privacy Preservation in Assisted Living. , 2018, , .		33
125	Users' Privacy Concerns in IoT Based Applications. , 2018, , .		32
126	Ecology, cytology and phylogeny of the snow alga Scotiella cryophila K-1 (Chlamydomonadales,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.6	17

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127	From Machine Learning to Explainable AI. , 2018, , .		149
128	Molecular and morphological diversity of <i>Zygnema</i> and <i>Zygnemopsis</i> (Zygnematophyceae,) Tj ETQq0 0 0 rgBT /Overlock 1	0.9	42
129	Introduction to MAchine Learning & Knowledge Extraction (MAKE). Machine Learning and Knowledge Extraction, 2018, 1, 1-20.	3.2	47
130	Usersâ€™ Perceptions and Attitudes Towards Smart Home Technologies. Lecture Notes in Computer Science, 2018, , 203-214.	1.0	32
131	Ecophysiological and morphological comparison of two populations of<i>Chlainomonas</i>sp. (Chlorophyta) causing red snow on ice-covered lakes in the High Tatras and Austrian Alps. European Journal of Phycology, 2018, 53, 230-243.	0.9	32
132	Arctic, Antarctic, and temperate green algae Zygnema spp. under UV-B stress: vegetative cells perform better than pre-akinetes. Protoplasma, 2018, 255, 1239-1252.	1.0	31
133	Current Advances, Trends and Challenges of Machine Learning and Knowledge Extraction: From Machine Learning to Explainable AI. Lecture Notes in Computer Science, 2018, , 1-8.	1.0	99
134	Explainable AI: The New 42?. Lecture Notes in Computer Science, 2018, , 295-303.	1.0	159
135	Augmenting Statistical Data Dissemination by Short Quantified Sentences of Natural Language. Journal of Official Statistics, 2018, 34, 981-1010.	0.1	23
136	Feedback Matters! Predicting the Appreciation of Online Articles A Data-Driven Approach. Lecture Notes in Computer Science, 2018, , 147-159.	1.0	5
137	The freshwater red alga <i>Batrachospermum turfosum</i> (Florideophyceae) can acclimate to a wide range of light and temperature conditions. European Journal of Phycology, 2017, 52, 238-249.	0.9	14
138	The terrestrial green macroalga Prasiola calophylla (Trebouxiophyceae, Chlorophyta): ecophysiological performance under water-limiting conditions. Protoplasma, 2017, 254, 1755-1767.	1.0	9
139	Circularized Visualisation of Genetic Interactions. , 2017, , .		2
140	F-actin reorganization upon de- and rehydration in the aeroterrestrial green alga Klebsormidium crenulatum. Micron, 2017, 98, 34-38.	1.1	11
141	Chloroplast aggregation during the cold-positioning response in the liverwort Marchantia polymorpha. Journal of Plant Research, 2017, 130, 1061-1070.	1.2	25
142	Leaf anatomy of two reciprocally non-monophyletic mountain plants (Heliosperma spp.): does heritable adaptation to divergent growing sites accompany the onset of speciation?. Protoplasma, 2017, 254, 1411-1420.	1.0	21
143	Photosynthetic plasticity in the green algal species <i>Klebsormidium flaccidum</i> (Streptophyta) from a terrestrial and a freshwater habitat. Phycologia, 2017, 56, 213-220.	0.6	10
144	Towards Integrative Machine Learning and Knowledge Extraction. Lecture Notes in Computer Science, 2017, , 1-12.	1.0	7

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145	Machine Learning and Knowledge Extraction in Digital Pathology Needs an Integrative Approach. Lecture Notes in Computer Science, 2017, , 13-50.	1.0	22
146	On the Challenges and Opportunities in Visualization for Machine Learning and Knowledge Extraction: A Research Agenda. Lecture Notes in Computer Science, 2017, , 191-198.	1.0	3
147	Human Activity Recognition Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2017, , 267-274.	1.0	103
148	The More the Merrier - Federated Learning from Local Sphere Recommendations. Lecture Notes in Computer Science, 2017, , 367-373.	1.0	10
149	Ambient Assisted Living Technologies from the Perspectives of Older People and Professionals. Lecture Notes in Computer Science, 2017, , 255-266.	1.0	19
150	Terrestrial adaptation of green algae Klebsormidium and Zygnema (Charophyta) involves diversity in photosynthetic traits but not in CO2 acquisition. Planta, 2017, 246, 971-986.	1.6	27
151	IT in Biology & Medical Informatics: On the Challenge of Understanding the Data Ecosystem. Lecture Notes in Computer Science, 2017, , 3-7.	1.0	0
152	Convolutional and Recurrent Neural Networks for Activity Recognition in Smart Environment. Lecture Notes in Computer Science, 2017, , 194-205.	1.0	45
153	Enhanced Desiccation Tolerance in Mature Cultures of the Streptophytic Green Alga Zygnema circumcarinatum Revealed by Transcriptomics. Plant and Cell Physiology, 2017, 58, 2067-2084.	1.5	95
154	Machine Learning Enhanced Virtual Autopsy. Autopsy and Case Reports, 2017, 7, 3-7.	0.2	18
155	Gesture-Based Interactions in Video Games with the Leap Motion Controller. Lecture Notes in Computer Science, 2017, , 620-633.	1.0	17
156	DO NOT DISTURB? Classifier Behavior on Perturbed Datasets. Lecture Notes in Computer Science, 2017, , 155-173.	1.0	13
157	Augmentor: An Image Augmentation Library for Machine Learning. Journal of Open Source Software, 2017, 2, 432.	2.0	144
158	Entity-Centric Information Access with the Human-in-the-Loop for the Biomedical Domains. , 2017, , .		5
159	The Effect of Threshold Values and Weighting Factors on the Association between Entropy Measures and Mortality after Myocardial Infarction in the Cardiac Arrhythmia Suppression Trial (CAST). Entropy, 2016, 18, 129.	1.1	18
160	Aniline Blue and Calcofluor White Staining of Callose and Cellulose in the Streptophyte Green Algae Zygnema and Klebsormidium. Bio-protocol, 2016, 6, .	0.2	32
161	In silico modeling for tumor growth visualization. BMC Systems Biology, 2016, 10, 59.	3.0	19
162	Abiotic Stress Tolerance of Charophyte Green Algae: New Challenges for Omics Techniques. Frontiers in Plant Science, 2016, 7, 678.	1.7	120

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163	Hyperspectral imaging of snow algae and green algae from aeroterrestrial habitats. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 412-420.	1.7	26
164	A new microscopic method to analyse desiccation–induced volume changes in aeroterrestrial green algae. Journal of Microscopy, 2016, 263, 192-199.	0.8	11
165	Machine Learning for Health Informatics. Lecture Notes in Computer Science, 2016, , 1-24.	1.0	33
166	Recommender Systems for Health Informatics: State-of-the-Art and Future Perspectives. Lecture Notes in Computer Science, 2016, , 391-414.	1.0	59
167	Machine Learning and Data Mining Methods for Managing Parkinson's Disease. Lecture Notes in Computer Science, 2016, , 209-220.	1.0	15
168	Reasoning Under Uncertainty: Towards Collaborative Interactive Machine Learning. Lecture Notes in Computer Science, 2016, , 357-376.	1.0	14
169	Machine Learning for In Silico Modeling of Tumor Growth. Lecture Notes in Computer Science, 2016, , 415-434.	1.0	7
170	A Tutorial on Machine Learning and Data Science Tools with Python. Lecture Notes in Computer Science, 2016, , 435-480.	1.0	21
171	Common ragweed (*Ambrosia artemisiifolia* L.): allergenicity and molecular characterization of pollen after plant exposure to elevated NO_2. Plant, Cell and Environment, 2016, 39, 147-164.	2.8	88
172	Interactive machine learning for health informatics: when do we need the human-in-the-loop?. Brain Informatics, 2016, 3, 119-131.	1.8	563
173	Prasiolin, a new UV-sunscreen compound in the terrestrial green macroalga Prasiola calophylla (Carmichael ex Greville) Kützing (Trebouxiophyceae, Chlorophyta). Planta, 2016, 243, 161-169.	1.6	37
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