

Andreas Holzinger

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

427
papers

10,018
citations

51
h-index

81
g-index

460
ext. papers

12,524
ext. citations

2.4
avg, IF

7.32
L-index

#	Paper	IF	Citations
427	State-of-the-Art Explainability Methods with Focus on Visual Analytics Showcased by Glioma Classification. <i>BioMedInformatics</i> , 2022 , 2, 139-158		2
426	Deep ROC Analysis and AUC as Balanced Average Accuracy, for Improved Classifier Selection, Audit and Explanation.. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022 , PP,	13.3	11
425	Explainable artificial intelligence (XAI): closing the gap between image analysis and navigation in complex invasive diagnostic procedures.. <i>World Journal of Urology</i> , 2022 , 1	4	
424	. from sand dunes of the Baltic Sea, Germany, and emendation of (Elenkin) O.M. Vynogr. & Mikhailyuk (Synechococcales, Cyanobacteria) based on an integrative approach.. <i>Phytotaxa</i> , 2022 , 532, 192-208	0.7	0
423	Information fusion as an integrative cross-cutting enabler to achieve robust, explainable, and trustworthy medical artificial intelligence. <i>Information Fusion</i> , 2022 , 79, 263-278	16.7	15
422	Towards a Taxonomy for Explainable AI in Computational Pathology 2022 , 311-330		1
421	Influencing the Actin Dynamics in Plant Cells by Jasplakinolide, Chondramides, Phalloidin, Cytochalasins, and Latrunculins. <i>Methods in Molecular Biology</i> , 2022 , 2364, 177-198	1.4	0
420	Personas for Artificial Intelligence (AI) an Open Source Toolbox. <i>IEEE Access</i> , 2022 , 10, 23732-23747	3.5	4
419	The explainability paradox: Challenges for xAI in digital pathology. <i>Future Generation Computer Systems</i> , 2022 , 133, 281-296	7.5	3
418	xxAI - Beyond Explainable Artificial Intelligence. <i>Lecture Notes in Computer Science</i> , 2022 , 3-10	0.9	2
417	Towards Explainability for AI Fairness. <i>Lecture Notes in Computer Science</i> , 2022 , 375-386	0.9	0
416	Explainable AI Methods - A Brief Overview. <i>Lecture Notes in Computer Science</i> , 2022 , 13-38	0.9	17
415	Digital Transformation in Smart Farm and Forest Operations Needs Human-Centered AI: Challenges and Future Directions.. <i>Sensors</i> , 2022 , 22,	3.8	5
414	Acquisition of desiccation tolerance in <i>Haematococcus pluvialis</i> requires photosynthesis and coincides with lipid and astaxanthin accumulation. <i>Algal Research</i> , 2022 , 64, 102699	5	2
413	Metabolite Profiling in Green Microalgae with Varying Degrees of Desiccation Tolerance. <i>Microorganisms</i> , 2022 , 10, 946	4.9	
412	Explainability and causability for artificial intelligence-supported medical image analysis in the context of the European In Vitro Diagnostic Regulation.. <i>New Biotechnology</i> , 2022 , 70, 67-72	6.4	2
411	Open Data to Support CANCER Science – Bioinformatics Perspective on Glioma Research. <i>Onco</i> , 2021 , 1, 219-229		1

410	Explainable AI and Multi-Modal Causability in Medicine. <i>I-com</i> , 2021 , 19, 171-179	1	21
409	Search for evolutionary roots of land plant arabinogalactan-proteins in charophytes: presence of a rhamnogalactan-protein in <i>Spirogyra pratensis</i> (Zygnematophyceae). <i>Plant Journal</i> , 2021 ,	6.9	1
408	Human exposome assessment platform.. <i>Environmental Epidemiology</i> , 2021 , 5, e182	0.2	1
407	The augmented radiologist: artificial intelligence in the practice of radiology. <i>Pediatric Radiology</i> , 2021 , 1	2.8	5
406	Medical artificial intelligence. <i>Communications of the ACM</i> , 2021 , 64, 34-36	2.5	9
405	Evaluating the Quality of Machine Learning Explanations: A Survey on Methods and Metrics. <i>Electronics (Switzerland)</i> , 2021 , 10, 593	2.6	35
404	Classification by ordinal sums of conjunctive and disjunctive functions for explainable AI and interpretable machine learning solutions. <i>Knowledge-Based Systems</i> , 2021 , 220, 106916	7.3	12
403	Cell wall characteristics during sexual reproduction of <i>Mougeotia</i> sp. (Zygnematophyceae) revealed by electron microscopy, glycan microarrays and RAMAN spectroscopy. <i>Protoplasma</i> , 2021 , 258, 1261-1275	3.4	4
402	Enhanced culturing techniques for the mycobiont isolated from the lichen. <i>Mycological Progress</i> , 2021 , 20, 797-808	1.9	3
401	Predicting prostate cancer specific-mortality with artificial intelligence-based Gleason grading. <i>Communications Medicine</i> , 2021 , 1,		8
400	The red alga <i>Tsunami</i> transpacifica (Stylonematophyceae) from plastic drift shows adaptation to its uncommon habitat in ultrastructure and soluble low molecular weight carbohydrate composition. <i>Protoplasma</i> , 2021 , 258, 1307-1321	3.4	1
399	Towards multi-modal causability with Graph Neural Networks enabling information fusion for explainable AI. <i>Information Fusion</i> , 2021 , 71, 28-37	16.7	94
398	The Ten Commandments of Ethical Medical AI. <i>Computer</i> , 2021 , 54, 119-123	1.6	21
397	Emendation of the Coccoid Cyanobacterial Genus and Description of the New Species sp. nov. and sp. nov. Isolated From the Coastal Range of the Atacama Desert (Chile). <i>Frontiers in Microbiology</i> , 2021 , 12, 671742	5.7	1
396	Ecophysiological and ultrastructural characterisation of the circumpolar orange snow alga compared to the cosmopolitan red snow alga (Chlorophyta). <i>Polar Biology</i> , 2021 , 44, 105-117	2	3
395	Recommender systems in the healthcare domain: state-of-the-art and research issues. <i>Journal of Intelligent Information Systems</i> , 2021 , 57, 171-201	2.1	22
394	Towards Visual Concept Learning and Reasoning: On Insights into Representative Approaches. <i>Studies in Computational Intelligence</i> , 2021 , 59-68	0.8	
393	Digital Transformation for Sustainable Development Goals (SDGs) - A Security, Safety and Privacy Perspective on AI. <i>Lecture Notes in Computer Science</i> , 2021 , 1-20	0.9	11

392	Terrestrial Green Algae Show Higher Tolerance to Dehydration than Do Their Aquatic Sister-Species. <i>Microbial Ecology</i> , 2021 , 82, 770-782	4.4	7
391	Characterization of Two Strains (SAG 698-1a and SAG 698-1b) and a Rapid Method to Estimate Nuclear Genome Size of Zygnematophycean Green Algae. <i>Frontiers in Plant Science</i> , 2021 , 12, 610381	6.2	2
390	AI and Big Data in Healthcare: Towards a More Comprehensive Research Framework for Multimorbidity. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	12
389	Ecophysiological, morphological, and biochemical traits of free-living <i>Diplosphaera chodatii</i> (Trebouxiophyceae) reveal adaptation to harsh environmental conditions. <i>Protoplasma</i> , 2021 , 258, 1187-1199	3.4	6
388	Contrasting endolithic habitats for cyanobacteria in spring calcites of the European Alps.. <i>Nova Hedwigia</i> , 2021 , 112, 17-48	1.3	
387	Mutation-based clustering and classification analysis reveals distinctive age groups and age-related biomarkers for glioma. <i>BMC Medical Informatics and Decision Making</i> , 2021 , 21, 77	3.6	5
386	Winter survival of the unicellular green alga <i>Micrasterias denticulata</i> : insights from field monitoring and simulation experiments. <i>Protoplasma</i> , 2021 , 258, 1335-1346	3.4	0
385	Induction of Conjugation and Zygosporangium Cell Wall Characteristics in the Alpine (Zygnematophyceae, Charophyta): Advantage under Climate Change Scenarios?. <i>Plants</i> , 2021 , 10,	4.5	2
384	Legal aspects of data cleansing in medical AI. <i>Computer Law and Security Review</i> , 2021 , 42, 105587	3	4
383	gen. et spec. nov. (Trebouxiophyceae, Chlorophyta), a semi-terrestrial microalga from Iceland exhibits high levels of unsaturated fatty acids.. <i>Journal of Applied Phycology</i> , 2021 , 33, 3671-3682	3.2	0
382	Toward Human-AI Interfaces to Support Explainability and Causability in Medical AI. <i>Computer</i> , 2021 , 54, 78-86	1.6	11
381	Kandinsky Patterns. <i>Artificial Intelligence</i> , 2021 , 300, 103546	3.6	2
380	The Next Frontier: AI We Can Really Trust. <i>Communications in Computer and Information Science</i> , 2021 , 427-440	0.3	4
379	Adaptation to Aquatic and Terrestrial Environments in (Chlorophyta). <i>Frontiers in Microbiology</i> , 2020 , 11, 585836	5.7	8
378	Cell Wall Reinforcements Accompany Chilling and Freezing Stress in the Streptophyte Green Alga. <i>Frontiers in Plant Science</i> , 2020 , 11, 873	6.2	9
377	Abundance and Extracellular Release of Phytohormones in Aero-terrestrial Microalgae (Trebouxiophyceae, Chlorophyta) As a Potential Chemical Signaling Source. <i>Journal of Phycology</i> , 2020 , 56, 1295-1307	3	11
376	Pre-akinetes formation in <i>Zygnema</i> sp. from polar habitats is associated with metabolite re-arrangement. <i>Journal of Experimental Botany</i> , 2020 , 71, 3314-3322	7	13
375	Measuring the Quality of Explanations: The System Causability Scale (SCS): Comparing Human and Machine Explanations. <i>KI - Kunstliche Intelligenz</i> , 2020 , 34, 193-198	1.8	101

374	Ecophysiological changes and spore formation: two strategies in response to low-temperature and high-light stress in <i>Klebsormidium</i> cf. <i>flaccidum</i> (Klebsormidiophyceae, Streptophyta). <i>Journal of Phycology</i> , 2020 , 56, 649-661	3	3
373	Verbinden von Natürlicher und Künstlicher Intelligenz: eine experimentelle Testumgebung für Explainable AI (xAI). <i>Hmd</i> , 2020 , 57, 33-45	0.7	
372	Desiccation tolerance in streptophyte algae and the algae to land plant transition: evolution of LEA and MIP protein families within the Viridiplantae. <i>Journal of Experimental Botany</i> , 2020 , 71, 3270-3278	7	5
371	A new concordant partial AUC and partial c statistic for imbalanced data in the evaluation of machine learning algorithms. <i>BMC Medical Informatics and Decision Making</i> , 2020 , 20, 4	3.6	36
370	Human Annotated Dialogues Dataset for Natural Conversational Agents. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 762	2.6	4
369	Dictyosphaerium-like morphotype in terrestrial algae: what is Xerochlorella (Trebouxiophyceae, Chlorophyta)?. <i>Journal of Phycology</i> , 2020 , 56, 671-686	3	6
368	Open Data for Differential Network Analysis in Glioma. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
367	Expectations of Artificial Intelligence for Pathology. <i>Lecture Notes in Computer Science</i> , 2020 , 1-15	0.9	2
366	Performing Arithmetic Using a Neural Network Trained on Digit Permutation Pairs. <i>Lecture Notes in Computer Science</i> , 2020 , 255-264	0.9	
365	Privacy-Enabled Smart Home Framework with Voice Assistant. <i>Computer Communications and Networks</i> , 2020 , 321-339	0.5	0
364	Fuzzy Image Processing and Deep Learning for Microaneurysms Detection. <i>Lecture Notes in Computer Science</i> , 2020 , 321-339	0.9	
363	Developments in AI and Machine Learning for Neuroimaging. <i>Lecture Notes in Computer Science</i> , 2020 , 307-320	0.9	0
362	Towards a Better Understanding of the Workflows: Modeling Pathology Processes in View of Future AI Integration. <i>Lecture Notes in Computer Science</i> , 2020 , 102-117	0.9	5
361	Image Processing and Machine Learning Techniques for Diabetic Retinopathy Detection: A Review. <i>Lecture Notes in Computer Science</i> , 2020 , 136-154	0.9	3
360	Explainable Artificial Intelligence: Concepts, Applications, Research Challenges and Visions. <i>Lecture Notes in Computer Science</i> , 2020 , 1-16	0.9	30
359	The European Legal Framework for Medical AI. <i>Lecture Notes in Computer Science</i> , 2020 , 209-226	0.9	26
358	Property-Based Testing for Parameter Learning of Probabilistic Graphical Models. <i>Lecture Notes in Computer Science</i> , 2020 , 499-515	0.9	2
357	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. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6

356	Phytohormone release by three isolated lichen mycobionts and the effects of indole-3-acetic acid on their compatible photobionts. <i>Symbiosis</i> , 2020 , 82, 95-108	3	4
355	Operational framework and training standard requirements for AI-empowered robotic surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020 , 16, 1-13	2.9	4
354	A new technical approach for preparing frozen biological samples for electron microscopy. <i>Plant Methods</i> , 2020 , 16, 48	5.8	5
353	Klebsormidin A and B, Two New UV-Sunscreen Compounds in Green Microalgal and Species (Streptophyta) From Terrestrial Habitats. <i>Frontiers in Microbiology</i> , 2020 , 11, 499	5.7	12
352	Metatranscriptomic and metabolite profiling reveals vertical heterogeneity within a Zygnema green algal mat from Svalbard (High Arctic). <i>Environmental Microbiology</i> , 2019 , 21, 4283-4299	5.2	15
351	Visualizing Uncertainty for Comparing Genomic Pediatric Brain Cancer Data 2019 ,		1
350	Dialogue Systems for Intelligent Human Computer Interactions. <i>Electronic Notes in Theoretical Computer Science</i> , 2019 , 343, 57-71	0.7	14
349	Use case driven evaluation of open databases for pediatric cancer research. <i>BioData Mining</i> , 2019 , 12, 2	4.3	11
348	Why imaging data alone is not enough: AI-based integration of imaging, omics, and clinical data. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 46, 2722-2730	8.8	34
347	Homogalacturonan Accumulation in Cell Walls of the Green Alga sp. (Charophyta) Increases Desiccation Resistance. <i>Frontiers in Plant Science</i> , 2019 , 10, 540	6.2	37
346	Biomedical image augmentation using Augmentor. <i>Bioinformatics</i> , 2019 , 35, 4522-4524	7.2	90
345	Developments in Transduction, Connectivity and AI/Machine Learning for Point-of-Care Testing. <i>Sensors</i> , 2019 , 19,	3.8	9
344	New record of the rare genus Crow (Oscillatoriales, Cyanobacteria) from sand dunes of the Baltic Sea, Germany: epitypification and emendation of Fritsch et John based on an integrative approach. <i>Phytotaxa</i> , 2019 , 400, 165-179	0.7	6
343	Arabinogalactan Proteins and the Extracellular Matrix of Charophytes: A Sticky Business. <i>Frontiers in Plant Science</i> , 2019 , 10, 447	6.2	21
342	Causability and explainability of artificial intelligence in medicine. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019 , 9, e1312	6.9	311
341	Teaming up with Artificial Intelligence: The Human in the Loop of Serious Game Pathfinding Algorithms. <i>Lecture Notes in Computer Science</i> , 2019 , 354-363	0.9	1
340	Light and Dehydration but Not Temperature Drive Photosynthetic Adaptations of Basal Streptophytes (Hormidiella, Streptosarcina and Streptofilum) Living in Terrestrial Habitats. <i>Microbial Ecology</i> , 2019 , 77, 380-393	4.4	12
339	The conjugating green alga Zygnema sp. (Zygnematophyceae) from the Arctic shows high frost tolerance in mature cells (pre-akinetes). <i>Protoplasma</i> , 2019 , 256, 1681-1694	3.4	30

338	Big Data Calls for Machine Learning 2019 , 258-264		3
337	The role of artificial intelligence and machine learning in harmonization of high-resolution post-mortem MRI (virtopsy) with respect to brain microstructure. <i>Brain Informatics</i> , 2019 , 6, 3	5.9	14
336	Ecophysiology, Cell Biology and Ultrastructure of a Benthic Diatom Isolated in the Arctic 2019 , 273-287		
335	A glass-box interactive machine learning approach for solving NP-hard problems with the human-in-the-loop. <i>Creative Mathematics and Informatics</i> , 2019 , 28, 121-134	0.2	4
334	KANDINSKY Patterns as IQ-Test for Machine Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 1-14	0.9	10
333	Machine Learning for Family Doctors: A Case of Cluster Analysis for Studying Aging Associated Comorbidities and Frailty. <i>Lecture Notes in Computer Science</i> , 2019 , 178-194	0.9	5
332	Insights into Learning Competence Through Probabilistic Graphical Models. <i>Lecture Notes in Computer Science</i> , 2019 , 250-271	0.9	7
331	Detection of Diabetic Retinopathy and Maculopathy in Eye Fundus Images Using Deep Learning and Image Augmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 114-127	0.9	6
330	Importance of medical data preprocessing in predictive modeling and risk factor discovery for the frailty syndrome. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 33	3.6	18
329	Towards a Deeper Understanding of How a Pathologist Makes a Diagnosis: Visualization of the Diagnostic Process in Histopathology 2019 ,		6
328	Visualization of Histopathological Decision Making Using a Roadbook Metaphor 2019 ,		6
327	NLP for the Generation of Training Data Sets for Ontology-Guided Weakly-Supervised Machine Learning in Digital Pathology 2019 ,		2
326	Legal, regulatory, and ethical frameworks for development of standards in artificial intelligence (AI) and autonomous robotic surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019 , 15, e1968	2.9	94
325	Interactive machine learning: experimental evidence for the human in the algorithmic loop. <i>Applied Intelligence</i> , 2019 , 49, 2401-2414	4.9	91
324	Single colony genetic analysis of epilithic stream algae of the genus spp. <i>Hydrobiologia</i> , 2018 , 811, 61-75	2.4	12
323	Solar irradiation levels during simulated long- and short-term heat waves significantly influence heat survival, pigment and ascorbate composition, and free radical scavenging activity in alpine <i>Vaccinium gaultherioides</i> . <i>Physiologia Plantarum</i> , 2018 , 163, 211-230	4.6	4
322	In silico cancer research towards 3R. <i>BMC Cancer</i> , 2018 , 18, 408	4.8	55
321	Metabolic syndrome in hypertensive women in the age of menopause: a case study on data from general practice electronic health records. <i>BMC Medical Informatics and Decision Making</i> , 2018 , 18, 24	3.6	8

320	Explainable AI (ex-AI). <i>Informatik-Spektrum</i> , 2018 , 41, 138-143	0.3	20
319	Dimensionality Reduction for Exploratory Data Analysis in Daily Medical Research. <i>Smart Innovation, Systems and Technologies</i> , 2018 , 3-20	0.5	1
318	New Taxa of Streptophyte Algae (Streptophyta) from Terrestrial Habitats Revealed Using an Integrative Approach. <i>Protist</i> , 2018 , 169, 406-431	2.5	13
317	Users' Perceptions and Attitudes Towards Smart Home Technologies. <i>Lecture Notes in Computer Science</i> , 2018 , 203-214	0.9	14
316	Ecophysiological and morphological comparison of two populations of sp. (Chlorophyta) causing red snow on ice-covered lakes in the High Tatras and Austrian Alps. <i>European Journal of Phycology</i> , 2018 , 53, 230-243	2.2	21
315	Arctic, Antarctic, and temperate green algae <i>Zygnema</i> spp. under UV-B stress: vegetative cells perform better than pre-akinetes. <i>Protoplasma</i> , 2018 , 255, 1239-1252	3.4	19
314	Current Advances, Trends and Challenges of Machine Learning and Knowledge Extraction: From Machine Learning to Explainable AI. <i>Lecture Notes in Computer Science</i> , 2018 , 1-8	0.9	60
313	Explainable AI: The New 42?. <i>Lecture Notes in Computer Science</i> , 2018 , 295-303	0.9	91
312	Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	18
311	Augmenting Statistical Data Dissemination by Short Quantified Sentences of Natural Language. <i>Journal of Official Statistics</i> , 2018 , 34, 981-1010	0.9	16
310	Feedback Matters! Predicting the Appreciation of Online Articles A Data-Driven Approach. <i>Lecture Notes in Computer Science</i> , 2018 , 147-159	0.9	4
309	Epilithic (Synechococcales, Cyanobacteria) species in mountain streams of the Alps-interspecific differences in photo-physiological traits. <i>Journal of Applied Phycology</i> , 2018 , 30, 1125-1134	3.2	8
308	Virtual autopsy: Machine Learning and AI provide new opportunities for investigating minimal tumor burden and therapy resistance by cancer patients. <i>Autopsy and Case Reports</i> , 2018 , 8, e2018003	0.6	4
307	A Conceptual framework for Adaptive User Interfaces for older adults 2018 ,		8
306	A Deep Learning Approach for Privacy Preservation in Assisted Living 2018 ,		19
305	Users' Privacy Concerns in IoT Based Applications 2018 ,		13
304	Ecology, cytology and phylogeny of the snow alga K-1 (Chlamydomonadales, Chlorophyta) from the Austrian Alps. <i>Phycologia</i> , 2018 , 57, 581-592	2.7	14
303	2018 ,		82

302	Molecular and morphological diversity of and (Zygnematophyceae, Streptophyta) from Svalbard (High Arctic). <i>European Journal of Phycology</i> , 2018 , 53, 492-508	2.2	30
301	The freshwater red alga (Florideophyceae) can acclimate to a wide range of light and temperature conditions. <i>European Journal of Phycology</i> , 2017 , 52, 238-249	2.2	11
300	The terrestrial green macroalga <i>Prasiola calophylla</i> (Trebouxiophyceae, Chlorophyta): ecophysiological performance under water-limiting conditions. <i>Protoplasma</i> , 2017 , 254, 1755-1767	3.4	7
299	Circularized Visualisation of Genetic Interactions 2017 ,		1
298	F-actin reorganization upon de- and rehydration in the aeroterrestrial green alga <i>Klebsormidium crenulatum</i> . <i>Micron</i> , 2017 , 98, 34-38	2.3	3
297	Chloroplast aggregation during the cold-positioning response in the liverwort <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2017 , 130, 1061-1070	2.6	15
296	Leaf anatomy of two reciprocally non-monophyletic mountain plants (<i>Heliosperma</i> spp.): does heritable adaptation to divergent growing sites accompany the onset of speciation?. <i>Protoplasma</i> , 2017 , 254, 1411-1420	3.4	8
295	Photosynthetic plasticity in the green algal species (Streptophyta) from a terrestrial and a freshwater habitat. <i>Phycologia</i> , 2017 , 56, 213-220	2.7	5
294	Towards Integrative Machine Learning and Knowledge Extraction. <i>Lecture Notes in Computer Science</i> , 2017 , 1-12	0.9	5
293	Machine Learning and Knowledge Extraction in Digital Pathology Needs an Integrative Approach. <i>Lecture Notes in Computer Science</i> , 2017 , 13-50	0.9	14
292	On the Challenges and Opportunities in Visualization for Machine Learning and Knowledge Extraction: A Research Agenda. <i>Lecture Notes in Computer Science</i> , 2017 , 191-198	0.9	1
291	Human Activity Recognition Using Recurrent Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 267-274	0.9	58
290	The More the Merrier - Federated Learning from Local Sphere Recommendations. <i>Lecture Notes in Computer Science</i> , 2017 , 367-373	0.9	6
289	Ambient Assisted Living Technologies from the Perspectives of Older People and Professionals. <i>Lecture Notes in Computer Science</i> , 2017 , 255-266	0.9	13
288	Terrestrial adaptation of green algae <i>Klebsormidium</i> and <i>Zygnema</i> (Charophyta) involves diversity in photosynthetic traits but not in CO acquisition. <i>Planta</i> , 2017 , 246, 971-986	4.7	19
287	IT in Biology & Medical Informatics: On the Challenge of Understanding the Data Ecosystem. <i>Lecture Notes in Computer Science</i> , 2017 , 3-7	0.9	
286	Convolutional and Recurrent Neural Networks for Activity Recognition in Smart Environment. <i>Lecture Notes in Computer Science</i> , 2017 , 194-205	0.9	24
285	Enhanced Desiccation Tolerance in Mature Cultures of the Streptophytic Green Alga <i>Zygnema circumcarinatum</i> Revealed by Transcriptomics. <i>Plant and Cell Physiology</i> , 2017 , 58, 2067-2084	4.9	60

284	Machine learning enhanced virtual autopsy. <i>Autopsy and Case Reports</i> , 2017 , 7, 3-7	0.6	13
283	Augmentor: An Image Augmentation Library for Machine Learning. <i>Journal of Open Source Software</i> , 2017 , 2, 432	5.2	79
282	Entity-Centric Information Access with the Human-in-the-Loop for the Biomedical Domains 2017 ,		2
281	Gesture-Based Interactions in Video Games with the Leap Motion Controller. <i>Lecture Notes in Computer Science</i> , 2017 , 620-633	0.9	10
280	DO NOT DISTURB? Classifier Behavior on Perturbed Datasets. <i>Lecture Notes in Computer Science</i> , 2017 , 155-173	0.9	10
279	Entransia and Hormidiella, sister lineages of Klebsormidium (Streptophyta), respond differently to light, temperature, and desiccation stress. <i>Protoplasma</i> , 2016 , 253, 1309-23	3.4	11
278	Living in biological soil crust communities of African deserts-Physiological traits of green algal Klebsormidium species (Streptophyta) to cope with desiccation, light and temperature gradients. <i>Journal of Plant Physiology</i> , 2016 , 194, 2-12	3.6	37
277	Application of Graph Entropy for Knowledge Discovery and Data Mining in Bibliometric Data 2016 , 259-273		2
276	Ontology-Guided Principal Component Analysis: Reaching the Limits of the Doctor-in-the-Loop. <i>Lecture Notes in Computer Science</i> , 2016 , 22-33	0.9	6
275	The green alga <i>Zygonium ericetorum</i> (Zygnematophyceae, Charophyta) shows high iron and aluminium tolerance: protection mechanisms and photosynthetic performance. <i>FEMS Microbiology Ecology</i> , 2016 , 92,	4.3	10
274	Formation of lipid bodies and changes in fatty acid composition upon pre-akinetete formation in Arctic and Antarctic <i>Zygnema</i> (Zygnematophyceae, Streptophyta) strains. <i>FEMS Microbiology Ecology</i> , 2016 , 92,	4.3	41
273	An adaptive annotation approach for biomedical entity and relation recognition. <i>Brain Informatics</i> , 2016 , 3, 157-168	5.9	13
272	Interactive knowledge discovery with the doctor-in-the-loop: a practical example of cerebral aneurysms research. <i>Brain Informatics</i> , 2016 , 3, 133-143	5.9	27
271	A tamper-proof audit and control system for the doctor in the loop. <i>Brain Informatics</i> , 2016 , 3, 269-279	5.9	22
270	Visual analytics for concept exploration in subspaces of patient groups : Making sense of complex datasets with the Doctor-in-the-loop. <i>Brain Informatics</i> , 2016 , 3, 233-247	5.9	31
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259	Aniline blue and Calcofluor white staining of callose and cellulose in the streptophyte green algae and. <i>Bio-protocol</i> , 2016 , 6,	0.9	17
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256	Hyperspectral imaging of snow algae and green algae from aeroterrestrial habitats. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 162, 412-420	6.7	19
255	A new microscopic method to analyse desiccation-induced volume changes in aeroterrestrial green algae. <i>Journal of Microscopy</i> , 2016 , 263, 192-9	1.9	10
254	Machine Learning for Health Informatics. <i>Lecture Notes in Computer Science</i> , 2016 , 1-24	0.9	24
253	Recommender Systems for Health Informatics: State-of-the-Art and Future Perspectives. <i>Lecture Notes in Computer Science</i> , 2016 , 391-414	0.9	49
252	Machine Learning and Data Mining Methods for Managing Parkinson's Disease. <i>Lecture Notes in Computer Science</i> , 2016 , 209-220	0.9	12
251	Reasoning Under Uncertainty: Towards Collaborative Interactive Machine Learning. <i>Lecture Notes in Computer Science</i> , 2016 , 357-376	0.9	10
250	Machine Learning for In Silico Modeling of Tumor Growth. <i>Lecture Notes in Computer Science</i> , 2016 , 415-434	0.9	7
249	A Tutorial on Machine Learning and Data Science Tools with Python. <i>Lecture Notes in Computer Science</i> , 2016 , 435-480	0.9	10

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240	Smart Health. <i>Lecture Notes in Computer Science</i> , 2015 ,	0.9	8
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227	Towards Personalization of Diabetes Therapy Using Computerized Decision Support and Machine Learning: Some Open Problems and Challenges. <i>Lecture Notes in Computer Science</i> , 2015 , 237-260	0.9	20
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224	Medicine and Health Care as a Data Problem: Will Computers Become Better Medical Doctors?. <i>Lecture Notes in Computer Science</i> , 2015 , 21-39	0.9	5
223	Using WCAG 2.0 and Heuristic Evaluation to Evaluate Accessibility in Educational Web Based Pages. <i>Communications in Computer and Information Science</i> , 2015 , 197-207	0.3	5
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221	Analysis of Patient Groups and Immunization Results Based on Subspace Clustering. <i>Lecture Notes in Computer Science</i> , 2015 , 358-368	0.9	8
220	Witnesses for the Doctor in the Loop. <i>Lecture Notes in Computer Science</i> , 2015 , 369-378	0.9	9
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196	Enhancing Patient Safety through Human-Computer Information Retrieval on the Example of German-Speaking Surgical Reports 2014 ,		6
195	Investigations of cell morphology and reproduction in Ettl & Gütner (Stephano-sphaerina, Chlorophyta) by light- and WUDQVPLVLRQ electron microscopy. <i>Algological Studies (Stuttgart, Germany: 2007)</i> , 2014 , 144, 95-104	1	3

194	Darwin, Lamarck, or Baldwin: Applying Evolutionary Algorithms to Machine Learning Techniques 2014 ,		5
193	Darwin or Lamarck? Future Challenges in Evolutionary Algorithms for Knowledge Discovery and Data Mining. <i>Lecture Notes in Computer Science</i> , 2014 , 35-56	0.9	12
192	Knowledge Discovery and Visualization of Clusters for Erythromycin Related Adverse Events in the FDA Drug Adverse Event Reporting System. <i>Lecture Notes in Computer Science</i> , 2014 , 101-116	0.9	1
191	Biomedical Text Mining: State-of-the-Art, Open Problems and Future Challenges. <i>Lecture Notes in Computer Science</i> , 2014 , 271-300	0.9	36
190	Lecture 8 Biomedical Decision Making: Reasoning and Decision Support 2014 , 345-377		2
189	Transcriptomics of desiccation tolerance in the streptophyte green alga <i>Klebsormidium</i> reveal a land plant-like defense reaction. <i>PLoS ONE</i> , 2014 , 9, e110630	3.7	96
188	Lecture 2 Fundamentals of Data, Information, and Knowledge 2014 , 57-107		1
187	Lecture 6 Multimedia Data Mining and Knowledge Discovery 2014 , 251-298		1
186	Enhancing Interdisciplinary Cooperation by Social Platforms. <i>Lecture Notes in Computer Science</i> , 2014 , 298-309	0.9	8
185	Using Mixed Node Publication Network Graphs for Analyzing Success in Interdisciplinary Teams 2014 , 737-749		2
184	Extravaganza Tutorial on Hot Ideas for Interactive Knowledge Discovery and Data Mining in Biomedical Informatics. <i>Lecture Notes in Computer Science</i> , 2014 , 502-515	0.9	18
183	On Graph Extraction from Image Data. <i>Lecture Notes in Computer Science</i> , 2014 , 552-563	0.9	3
182	On Patient's Characteristics Extraction for Metabolic Syndrome Diagnosis: Predictive Modelling Based on Machine Learning. <i>Lecture Notes in Computer Science</i> , 2014 , 118-132	0.9	11
181	Mobile Computing is not Always Advantageous: Lessons Learned from a Real-World Case Study in a Hospital. <i>Lecture Notes in Computer Science</i> , 2014 , 110-123	0.9	3
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179	Multi-touch Graph-Based Interaction for Knowledge Discovery on Mobile Devices: State-of-the-Art and Future Challenges. <i>Lecture Notes in Computer Science</i> , 2014 , 241-254	0.9	10
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177	Biobanks: A Source of Large Biological Data Sets: Open Problems and Future Challenges. <i>Lecture Notes in Computer Science</i> , 2014 , 317-330	0.9	16

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174	Lecture 5 Semi-structured, Weakly Structured, and Unstructured Data 2014 , 203-249		
173	Lecture 9 Interactive Information Visualization and Visual Analytics 2014 , 379-420		1
172	Lecture 10 Biomedical Information Systems and Medical Knowledge Management 2014 , 421-458		
171	Towards Interactive Visualization of Longitudinal Data to Support Knowledge Discovery on Multi-touch Tablet Computers. <i>Lecture Notes in Computer Science</i> , 2014 , 124-137	0.9	1
170	Lecture 1 Introduction: Computer Science Meets Life Science 2014 , 1-56		
169	Lecture 11 Biomedical Data: Privacy, Safety, and Security 2014 , 459-499		
168	Lecture 12 Methodology for Information Systems: System Design, Usability, and Evaluation 2014 , 501-545		
167	Lecture 4 Biomedical Databases: Acquisition, Storage, Information Retrieval, and Use 2014 , 153-202		
166	From Computer Innovation to Human Integration: Current Trends and Challenges for Pervasive HealthTechnologies. <i>Human-computer Interaction Series</i> , 2014 , 1-17	0.6	19
165	Changes in phenolic compounds and cellular ultrastructure of arctic and antarctic strains of Zygnema (Zygnematophyceae, Streptophyta) after exposure to experimentally enhanced UV to PAR ratio. <i>Microbial Ecology</i> , 2013 , 65, 68-83	4.4	51
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161	Web analytics of user path tracing and a novel algorithm for generating recommendations in Open Journal Systems. <i>Online Information Review</i> , 2013 , 37, 672-691	2	9
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156	On Graph Entropy Measures for Knowledge Discovery from Publication Network Data. <i>Lecture Notes in Computer Science</i> , 2013 , 354-362	0.9	19
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151	Online and Offline Determination of QT and PR Interval and QRS Duration in Electrocardiography. <i>Lecture Notes in Computer Science</i> , 2013 , 1-15	0.9	10
150	iScope □Viewing Biosignals on Mobile Devices. <i>Lecture Notes in Computer Science</i> , 2013 , 50-56	0.9	4
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148	Human Factors in Computing and Informatics. <i>Lecture Notes in Computer Science</i> , 2013 ,	0.9	2
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146	Influence of Organizational Culture and Communication on the Successful Implementation of Information Technology in Hospitals. <i>Lecture Notes in Computer Science</i> , 2013 , 165-174	0.9	4
145	On Knowledge Discovery in Open Medical Data on the Example of the FDA Drug Adverse Event Reporting System for Alendronate (Fosamax). <i>Lecture Notes in Computer Science</i> , 2013 , 195-206	0.9	11
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143	Introducing an Information System for Successful Support of Selective Attention in Online Courses. <i>Lecture Notes in Computer Science</i> , 2013 , 153-162	0.9	2
142	Acceptance of Telemedical Treatments □A Medical Professional Point of View. <i>Lecture Notes in Computer Science</i> , 2013 , 325-334	0.9	10
141	Older Users□Wish List for Technology Attributes. <i>Lecture Notes in Computer Science</i> , 2013 , 16-27	0.9	6

140	On Visual Analytics and Evaluation in Cell Physiology: A Case Study. <i>Lecture Notes in Computer Science</i> , 2013 , 495-502	0.9	9
139	On the Prediction of Clusters for Adverse Reactions and Allergies on Antibiotics for Children to Improve Biomedical Decision Making. <i>Lecture Notes in Computer Science</i> , 2013 , 431-445	0.9	
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137	Cell Organelle Structure and Function in Alpine and Polar Plants are Influenced by Growth Conditions and Climate 2012 , 43-60		7
136	Structures of chlorophyll catabolites in bananas (<i>Musa acuminata</i>) reveal a split path of chlorophyll breakdown in a ripening fruit. <i>Chemistry - A European Journal</i> , 2012 , 18, 10873-85	4.8	38
135	Modeling, design, development and evaluation of a hypervideo presentation for digital systems teaching and learning. <i>Multimedia Tools and Applications</i> , 2012 , 58, 435-452	2.5	13
134	Ecophysiology and ultrastructure of <i>Ancydonema nordenskiöldii</i> (Zygnematales, Streptophyta), causing brown ice on glaciers in Svalbard (high arctic). <i>Polar Biology</i> , 2012 , 35, 899-908	2	73
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131	Disease-Disease Relationships for Rheumatic Diseases: Web-Based Biomedical Textmining and Knowledge Discovery to Assist Medical Decision Making 2012 ,		10
130	Making Apps Useable on Multiple Different Mobile Platforms: On Interoperability for Business Application Development on Smartphones. <i>Lecture Notes in Computer Science</i> , 2012 , 176-189	0.9	27
129	Assessment for/as Learning: Integrated Automatic Assessment in Complex Learning Resources for Self-Directed Learning 2012 ,		4
128	Sign Language Multimedia Based Interaction for Aurally Handicapped People. <i>Lecture Notes in Computer Science</i> , 2012 , 213-220	0.9	4
127	A Systematic Success Factor Analysis in the Context of Enterprise 2.0: Results of an Exploratory Analysis Comprising Digital Immigrants and Digital Natives. <i>Lecture Notes in Business Information Processing</i> , 2012 , 163-175	0.6	7
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125	On Complexity Reduction of User Interfaces for Safety-Critical Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 108-122	0.9	6
124	Using Mixed Node Publication Network Graphs for Analyzing Success in Interdisciplinary Teams. <i>Lecture Notes in Computer Science</i> , 2012 , 606-617	0.9	17
123	On Text Preprocessing for Opinion Mining Outside of Laboratory Environments. <i>Lecture Notes in Computer Science</i> , 2012 , 618-629	0.9	16

122	On Applying Approximate Entropy to ECG Signals for Knowledge Discovery on the Example of Big Sensor Data. <i>Lecture Notes in Computer Science</i> , 2012 , 646-657	0.9	13
121	Towards a Framework Based on Single Trial Connectivity for Enhancing Knowledge Discovery in BCI. <i>Lecture Notes in Computer Science</i> , 2012 , 658-667	0.9	6
120	Optimization of a Handwriting Recognition Algorithm for a Mobile Enterprise Health Information System on the Basis of Real-Life Usability Research. <i>Communications in Computer and Information Science</i> , 2012 , 97-111	0.3	1
119	An Answer to "Who Needs a Stylus?" on Handwriting Recognition on Mobile Devices. <i>Communications in Computer and Information Science</i> , 2012 , 156-167	0.3	4
118	Development of an Interactive Application for Learning Medical Procedures and Clinical Decision Making. <i>Lecture Notes in Computer Science</i> , 2011 , 211-224	0.9	7
117	Perceived Usefulness of Assistive Technologies and Electronic Services for Ambient Assisted Living 2011 ,		3
116	Optimizing Long-Term Treatment of Rheumatoid Arthritis with Systematic Documentation 2011 ,		10
115	Sporogenic and vegetative tissues of <i>Saccharina latissima</i> (Laminariales, Phaeophyceae) exhibit distinctive sensitivity to experimentally enhanced ultraviolet radiation : photosynthetically active radiation ratio. <i>Phycological Research</i> , 2011 , 59, 221-235	1.3	25
114	DESICCATION STRESS CAUSES STRUCTURAL AND ULTRASTRUCTURAL ALTERATIONS IN THE AEROTERRESTRIAL GREEN ALGA KLEBSORMIDIUM CRENULATUM (KLEBSORMIDIOPHYCEAE, STREPTOPHYTA) ISOLATED FROM AN ALPINE SOIL CRUST. <i>Journal of Phycology</i> , 2011 , 47, 591-602	3	70
113	Design and development of a mobile computer application to reengineer workflows in the hospital and the methodology to evaluate its effectiveness. <i>Journal of Biomedical Informatics</i> , 2011 , 44, 968-77	10.2	58
112	Improving multimodal web accessibility for deaf people: sign language interpreter module. <i>Multimedia Tools and Applications</i> , 2011 , 54, 181-199	2.5	29
111	The effect of previous exposure to technology on acceptance and its importance in usability and accessibility engineering. <i>Universal Access in the Information Society</i> , 2011 , 10, 245-260	2.5	78
110	Medical Technology in Smart Homes: Exploring the User's Perspective on Privacy, Intimacy and Trust 2011 ,		58
109	Investigating paper vs. screen in real-life hospital workflows: Performance contradicts perceived superiority of paper in the user experience. <i>International Journal of Human Computer Studies</i> , 2011 , 69, 563-570	4.6	36
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