

# Andreas Holzinger

## List of Publications by Citations

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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	Usability engineering methods for software developers. <i>Communications of the ACM</i> , <b>2005</b> , 48, 71-74	2.5	529
426	Interactive machine learning for health informatics: when do we need the human-in-the-loop?. <i>Brain Informatics</i> , <b>2016</b> , 3, 119-131	5.9	383
425	Successful implementation of user-centered game based learning in higher education: An example from civil engineering. <i>Computers and Education</i> , <b>2007</b> , 49, 873-890	9.5	349
424	Causability and explainability of artificial intelligence in medicine. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2019</b> , 9, e1312	6.9	311
423	Algae and UV irradiation: effects on ultrastructure and related metabolic functions. <i>Micron</i> , <b>2006</b> , 37, 190-207	2.3	174
422	Desiccation stress and tolerance in green algae: consequences for ultrastructure, physiological and molecular mechanisms. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 327	6.2	165
421	Ambient Intelligence in Assisted Living: Enable Elderly People to Handle Future Interfaces. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 103-112	0.9	159
420	Knowledge Discovery and interactive Data Mining in Bioinformatics--State-of-the-Art, future challenges and research directions. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 6, I1	3.6	131
419	Learning performance with interactive simulations in medical education: Lessons learned from results of learning complex physiological models with the HAEMOdynamics SIMulator. <i>Computers and Education</i> , <b>2009</b> , 52, 292-301	9.5	130
418	The vegetative arctic freshwater green alga <i>Zygnema</i> is insensitive to experimental UV exposure. <i>Micron</i> , <b>2009</b> , 40, 831-8	2.3	105
417	Measuring the Quality of Explanations: The System Causability Scale (SCS): Comparing Human and Machine Explanations. <i>KI - Kunstliche Intelligenz</i> , <b>2020</b> , 34, 193-198	1.8	101
416	Transcriptomics of desiccation tolerance in the streptophyte green alga <i>Klebsormidium</i> reveal a land plant-like defense reaction. <i>PLoS ONE</i> , <b>2014</b> , 9, e110630	3.7	96
415	Abiotic Stress Tolerance of Charophyte Green Algae: New Challenges for Omics Techniques. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 678	6.2	95
414	Towards multi-modal causability with Graph Neural Networks enabling information fusion for explainable AI. <i>Information Fusion</i> , <b>2021</b> , 71, 28-37	16.7	94
413	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> , <b>2019</b> , 15, e1968	2.9	94
412	Explainable AI: The New 42?. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 295-303	0.9	91
411	Interactive machine learning: experimental evidence for the human in the algorithmic loop. <i>Applied Intelligence</i> , <b>2019</b> , 49, 2401-2414	4.9	91

410	Biomedical image augmentation using Augmentor. <i>Bioinformatics</i> , <b>2019</b> , 35, 4522-4524	7.2	90
409	Light, temperature, and desiccation effects on photosynthetic activity, and drought-induced ultrastructural changes in the green alga <i>Klebsormidium dissectum</i> (Streptophyta) from a high alpine soil crust. <i>Microbial Ecology</i> , <b>2012</b> , 63, 51-63	4.4	86
408	On Some Aspects of Improving Mobile Applications for the Elderly. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 923-932	0.9	83
407	Jasplakinolide: an actin-specific reagent that promotes actin polymerization. <i>Methods in Molecular Biology</i> , <b>2009</b> , 586, 71-87	1.4	82
406	ECOPHYSIOLOGICAL PERFORMANCE OF THE AEROTERRESTRIAL GREEN ALGA <i>KLEBSORMIDIUM CRENULATUM</i> (CHAROPHYCEAE, STREPTOPHYTA) ISOLATED FROM AN ALPINE SOIL CRUST WITH AN EMPHASIS ON DESICCATION STRESS1. <i>Journal of Phycology</i> , <b>2010</b> , 46, 1187-1197	3	82
405	<b>2018</b> ,		82
404	Augmentor: An Image Augmentation Library for Machine Learning. <i>Journal of Open Source Software</i> , <b>2017</b> , 2, 432	5.2	79
403	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> , <b>2011</b> , 10, 245-260	2.5	78
402	Green algae in alpine biological soil crust communities: acclimation strategies against ultraviolet radiation and dehydration. <i>Biodiversity and Conservation</i> , <b>2014</b> , 23, 1845-1858	3.4	77
401	Ecophysiology and ultrastructure of <i>Ancydonema nordenskiöldii</i> (Zygnematales, Streptophyta), causing brown ice on glaciers in Svalbard (high arctic). <i>Polar Biology</i> , <b>2012</b> , 35, 899-908	2	73
400	DESICCATION STRESS CAUSES STRUCTURAL AND ULTRASTRUCTURAL ALTERATIONS IN THE AEROTERRESTRIAL GREEN ALGA <i>KLEBSORMIDIUM CRENULATUM</i> (KLEBSORMIDIOPHYCEAE, STREPTOPHYTA) ISOLATED FROM AN ALPINE SOIL CRUST. <i>Journal of Phycology</i> , <b>2011</b> , 47, 591-602	3	70
399	Photosynthetic efficiency, desiccation tolerance and ultrastructure in two phylogenetically distinct strains of alpine <i>Zygnema</i> sp. (Zygnematophyceae, Streptophyta): role of pre-akinete formation. <i>Protoplasma</i> , <b>2015</b> , 252, 571-89	3.4	67
398	Wave reflection quantification based on pressure waveforms alone--methods, comparison, and clinical covariates. <i>Computer Methods and Programs in Biomedicine</i> , <b>2013</b> , 109, 250-9	6.9	66
397	Human-Computer Interaction and Knowledge Discovery (HCI-KDD): What Is the Benefit of Bringing Those Two Fields to Work Together?. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 319-328	0.9	65
396	Fluorescent chlorophyll catabolites in bananas light up blue halos of cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 15538-43	11.5	64
395	Investigating Usability Metrics for the Design and Development of Applications for the Elderly. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 98-105	0.9	64
394	Utilizing Wiki-Systems in higher education classes: a chance for universal access?. <i>Universal Access in the Information Society</i> , <b>2008</b> , 7, 199-207	2.5	64
393	Nitrogen limitation and slow drying induce desiccation tolerance in conjugating green algae ( <i>Zygnematophyceae</i> , Streptophyta) from polar habitats. <i>PLoS ONE</i> , <b>2014</b> , 9, e113137	3.7	61

392	Current Advances, Trends and Challenges of Machine Learning and Knowledge Extraction: From Machine Learning to Explainable AI. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 1-8	0.9	60
391	Enhanced Desiccation Tolerance in Mature Cultures of the Streptophytic Green Alga <i>Zygnema circumcarinatum</i> Revealed by Transcriptomics. <i>Plant and Cell Physiology</i> , <b>2017</b> , 58, 2067-2084	4.9	60
390	Common ragweed ( <i>Ambrosia artemisiifolia</i> L.): allergenicity and molecular characterization of pollen after plant exposure to elevated NO <sub>2</sub> . <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 147-64	8.4	60
389	Osmotic stress in Arctic and Antarctic strains of the green alga <i>Zygnema</i> (Zygnematales, Streptophyta): effects on photosynthesis and ultrastructure. <i>Micron</i> , <b>2013</b> , 44, 317-30	2.3	59
388	. <i>Phycologia</i> , <b>2006</b> , 45, 168-177	2.7	59
387	Human Activity Recognition Using Recurrent Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 267-274	0.9	58
386	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> , <b>2011</b> , 44, 968-77	10.2	58
385	Medical Technology in Smart Homes: Exploring the User's Perspective on Privacy, Intimacy and Trust <b>2011</b> ,		58
384	Selection of entropy-measure parameters for knowledge discovery in heart rate variability data. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 6, S2	3.6	57
383	In silico cancer research towards 3R. <i>BMC Cancer</i> , <b>2018</b> , 18, 408	4.8	55
382	Effects of arc3, arc5 and arc6 mutations on plastid morphology and stromule formation in green and nongreen tissues of <i>Arabidopsis thaliana</i> . <i>Photochemistry and Photobiology</i> , <b>2008</b> , 84, 1324-35	3.6	55
381	Physiology, ultrastructure and habitat of the ice alga <i>Mesotaenium berggrenii</i> (Zygnemaphyceae, Chlorophyta) from glaciers in the European Alps. <i>Phycologia</i> , <b>2009</b> , 48, 302-312	2.7	53
380	The effect of ultraviolet radiation on ultrastructure and photosynthesis in the red macroalgae <i>Palmaria palmata</i> and <i>Odonthalia dentata</i> from Arctic waters. <i>Plant Biology</i> , <b>2004</b> , 6, 568-77	3.7	53
379	Knowledge Discovery and Data Mining in Biomedical Informatics: The Future Is in Integrative, Interactive Machine Learning Solutions. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 1-18	0.9	52
378	Changes in phenolic compounds and cellular ultrastructure of arctic and antarctic strains of <i>Zygnema</i> (Zygnematophyceae, Streptophyta) after exposure to experimentally enhanced UV to PAR ratio. <i>Microbial Ecology</i> , <b>2013</b> , 65, 68-83	4.4	51
377	Jasplakinolide, a novel actin targeting peptide, inhibits cell growth and induces actin filament polymerization in the green alga <i>Micrasterias</i> . <i>Cytoskeleton</i> , <b>1997</b> , 38, 365-72		51
376	Finger Instead of Mouse: Touch Screens as a Means of Enhancing Universal Access. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 387-397	0.9	50
375	Mobile computer Web-application design in medicine: some research based guidelines. <i>Universal Access in the Information Society</i> , <b>2007</b> , 6, 31-41	2.5	49

374	Recommender Systems for Health Informatics: State-of-the-Art and Future Perspectives. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 391-414	0.9	49
373	Towards interactive Machine Learning (iML): Applying Ant Colony Algorithms to Solve the Traveling Salesman Problem with the Human-in-the-Loop Approach. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 81-95	0.9	49
372	Dehydration, temperature, and light tolerance in members of the aeroterrestrial green algal genus interfilum (streptophyta) from biogeographically different temperate soils. <i>Journal of Phycology</i> , <b>2014</b> , 50, 804-16	3	48
371	Molecular and immunological characterization of ragweed ( <i>Ambrosia artemisiifolia</i> L.) pollen after exposure of the plants to elevated ozone over a whole growing season. <i>PLoS ONE</i> , <b>2013</b> , 8, e61518	3.7	48
370	Plasmolysis effects and osmotic potential of two phylogenetically distinct alpine strains of Klebsormidium (Streptophyta). <i>Protoplasma</i> , <b>2012</b> , 249, 789-804	3.4	46
369	. <i>IEEE MultiMedia</i> , <b>2005</b> , 12, 70-75	2.1	46
368	Localization and Quantification of Callose in the Streptophyte Green Algae Zygnema and Klebsormidium: Correlation with Desiccation Tolerance. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 2259-70	4.9	44
367	Lifelong-learning support by m-learning. <i>ELearn</i> , <b>2005</b> , 2005, 2	1.2	44
366	Hypermodified fluorescent chlorophyll catabolites: source of blue luminescence in senescent leaves. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5174-7	16.4	43
365	Unusual phenolic compounds contribute to ecophysiological performance in the purple-colored green alga zygonium ericetorum (zygnematophyceae, streptophyta) from a high-alpine habitat. <i>Journal of Phycology</i> , <b>2013</b> , 49, 648-60	3	42
364	Integrated web visualizations for protein-protein interaction databases. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 195	3.6	41
363	Formation of lipid bodies and changes in fatty acid composition upon pre-akinete formation in Arctic and Antarctic Zygnema (Zygnematophyceae, Streptophyta) strains. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92,	4.3	41
362	From cloud computing to mobile Internet, from user focus to culture and hedonism: The crucible of mobile health care and Wellness applications <b>2010</b> ,		41
361	. <i>IEEE Software</i> , <b>2004</b> , 21, 92-99	1.5	41
360	Current State of Agile User-Centered Design: A Survey. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 416-427	0.9	40
359	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> , <b>2012</b> , 18, 10873-85	4.8	38
358	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> , <b>2016</b> , 194, 2-12	3.6	37
357	Homogalacturonan Accumulation in Cell Walls of the Green Alga sp. (Charophyta) Increases Desiccation Resistance. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 540	6.2	37

356	Desiccation tolerance in the chlorophyte green alga <i>Ulva compressa</i> : does cell wall architecture contribute to ecological success?. <i>Planta</i> , <b>2015</b> , 242, 477-92	4.7	37
355	Ecophysiology, secondary pigments and ultrastructure of <i>Chlainomonas</i> sp. (Chlorophyta) from the European Alps compared with <i>Chlamydomonas nivalis</i> forming red snow. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92, fiw030	4.3	37
354	Emotion Detection: Application of the Valence Arousal Space for Rapid Biological Usability Testing to Enhance Universal Access. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 615-624	0.9	37
353	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> , <b>2020</b> , 20, 4	3.6	36
352	Biomedical Text Mining: State-of-the-Art, Open Problems and Future Challenges. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 271-300	0.9	36
351	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> , <b>2011</b> , 69, 563-570	4.6	36
350	Effects of temperature and light on the formation of chloroplast protrusions in leaf mesophyll cells of high alpine plants. <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 1347-56	8.4	36
349	Combining HCI, Natural Language Processing, and Knowledge Discovery - Potential of IBM Content Analytics as an Assistive Technology in the Biomedical Field. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 13-24	0.9	36
348	Biodiversity of Klebsormidium (streptophyta) from alpine biological soil crusts (alps, tyrol, Austria, and Italy). <i>Journal of Phycology</i> , <b>2015</b> , 51, 750-67	3	35
347	Evaluating the Quality of Machine Learning Explanations: A Survey on Methods and Metrics. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 593	2.6	35
346	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> , <b>2019</b> , 46, 2722-2730	8.8	34
345	A novel blue fluorescent chlorophyll catabolite accumulates in senescent leaves of the peace lily and indicates a split path of chlorophyll breakdown. <i>FEBS Letters</i> , <b>2010</b> , 584, 4215-21	3.8	33
344	Chances of Increasing Youth Health Awareness through Mobile Wellness Applications. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 71-81	0.9	32
343	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> , <b>2016</b> , 3, 233-247	5.9	31
342	Some Aspects of the Development of Low-Cost Augmented Reality Learning Environments as Examples for Future Interfaces in Technology Enhanced Learning. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 728-737	0.9	31
341			31
340	On Computationally-Enhanced Visual Analysis of Heterogeneous Data and Its Application in Biomedical Informatics. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 117-140	0.9	31
339	The conjugating green alga <i>Zygnema</i> sp. (Zygnematophyceae) from the Arctic shows high frost tolerance in mature cells (pre-akinetes). <i>Protoplasma</i> , <b>2019</b> , 256, 1681-1694	3.4	30

338	Explainable Artificial Intelligence: Concepts, Applications, Research Challenges and Visions. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 1-16	0.9	30
337	Molecular and morphological diversity of and (Zygnematophyceae, Streptophyta) from Svalbard (High Arctic). <i>European Journal of Phycology</i> , <b>2018</b> , 53, 492-508	2.2	30
336	Improving multimodal web accessibility for deaf people: sign language interpreter module. <i>Multimedia Tools and Applications</i> , <b>2011</b> , 54, 181-199	2.5	29
335	Prasiolin, a new UV-sunscreen compound in the terrestrial green macroalga <i>Prasiola calophylla</i> (Carmichael ex Greville) Křizing (Trebouxiophyceae, Chlorophyta). <i>Planta</i> , <b>2016</b> , 243, 161-9	4.7	29
334	Interactive Knowledge Discovery and Data Mining in Biomedical Informatics. <i>Lecture Notes in Computer Science</i> , <b>2014</b> ,	0.9	28
333	Functional and genetic analysis of the colon cancer network. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 6, S6	3.6	28
332	From Smart Health to Smart Hospitals. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 1-20	0.9	28
331	An Investigation on Acceptance of Ubiquitous Devices for the Elderly in a Geriatric Hospital Environment: Using the Example of Person Tracking. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 22-29	0.9	28
330	Desiccation tolerance in the streptophyte green alga <i>Klebsormidium</i> : The role of phytohormones. <i>Communicative and Integrative Biology</i> , <b>2015</b> , 8, e1059978	1.7	27
329	Interactive knowledge discovery with the doctor-in-the-loop: a practical example of cerebral aneurysms research. <i>Brain Informatics</i> , <b>2016</b> , 3, 133-143	5.9	27
328	Computational approaches for mining user's opinions on the Web 2.0. <i>Information Processing and Management</i> , <b>2014</b> , 50, 899-908	6.3	27
327	Opinion Mining on the Web 2.0 [Characteristics of User Generated Content and Their Impacts. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 35-46	0.9	27
326	Making Apps Useable on Multiple Different Mobile Platforms: On Interoperability for Business Application Development on Smartphones. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 176-189	0.9	27
325	Reprint of: Computational approaches for mining user's opinions on the Web 2.0. <i>Information Processing and Management</i> , <b>2015</b> , 51, 510-519	6.3	26
324	Towards a low-cost mobile subcutaneous vein detection solution using near-infrared spectroscopy. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 365902	2.2	26
323	Morphology and ultrastructure of and (Klebsormidiales, Streptophyta) with special reference to cell division and thallus formation. <i>European Journal of Phycology</i> , <b>2014</b> , 49, 395-412	2.2	26
322	Spectrin-like proteins in green algae (Desmidiaceae). <i>Cell Biology International</i> , <b>1999</b> , 23, 335-44	4.5	26
321	The European Legal Framework for Medical AI. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 209-226	0.9	26



320	Web 2.0 Technology: Future Interfaces for Technology Enhanced Learning?. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 559-568	0.9	26
319	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> , <b>2011</b> , 59, 221-235	1.3	25
318	Convolutional and Recurrent Neural Networks for Activity Recognition in Smart Environment. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 194-205	0.9	24
317	Machine Learning for Health Informatics. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 1-24	0.9	24
316	Biomedical Informatics <b>2014</b> ,		23
315	Chondramides, novel cyclodepsipeptides from myxobacteria, influence cell development and induce actin filament polymerization in the green alga <i>Micrasterias</i> . <i>Cytoskeleton</i> , <b>2001</b> , 48, 87-95		23
314	User-Centered Interface Design for Disabled and Elderly People: First Experiences with Designing a Patient Communication System (PACOSY). <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 33-40	0.9	23
313	A tamper-proof audit and control system for the doctor in the loop. <i>Brain Informatics</i> , <b>2016</b> , 3, 269-279	5.9	22
312	Kinesin-like proteins are involved in postmitotic nuclear migration of the unicellular green alga <i>Micrasterias denticulata</i> . <i>Cell Biology International</i> , <b>2002</b> , 26, 689-97	4.5	22
311	The Right to Be Forgotten: Towards Machine Learning on Perturbed Knowledge Bases. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 251-266	0.9	22
310	Recommender systems in the healthcare domain: state-of-the-art and research issues. <i>Journal of Intelligent Information Systems</i> , <b>2021</b> , 57, 171-201	2.1	22
309	Arabinogalactan Proteins and the Extracellular Matrix of Charophytes: A Sticky Business. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 447	6.2	21
308	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> , <b>2018</b> , 53, 230-243	2.2	21
307	Analysis of biomedical data with multilevel glyphs. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 6, S5	3.6	21
306	On Using Entropy for Enhancing Handwriting Preprocessing. <i>Entropy</i> , <b>2012</b> , 14, 2324-2350	2.8	21
305	Explainable AI and Multi-Modal Causability in Medicine. <i>I-com</i> , <b>2021</b> , 19, 171-179	1	21
304	The Ten Commandments of Ethical Medical AI. <i>Computer</i> , <b>2021</b> , 54, 119-123	1.6	21
303	Explainable AI (ex-AI). <i>Informatik-Spektrum</i> , <b>2018</b> , 41, 138-143	0.3	20



302	Towards Personalization of Diabetes Therapy Using Computerized Decision Support and Machine Learning: Some Open Problems and Challenges. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 237-260	0.9	20
301	Security aspects of ubiquitous computing in health care. <i>Elektrotechnik Und Informationstechnik</i> , <b>2006</b> , 123, 156-161	0.4	20
300	Some Usability Issues of Augmented and Mixed Reality for e-Health Applications in the Medical Domain <b>2007</b> , 255-266		20
299	Computational Sensemaking on Examples of Knowledge Discovery from Neuroscience Data: Towards Enhancing Stroke Rehabilitation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 166-168	0.9	20
298	Interactive Machine Learning (iML). <i>Informatik-Spektrum</i> , <b>2016</b> , 39, 64-68	0.3	19
297	Arctic, Antarctic, and temperate green algae <i>Zygnema</i> spp. under UV-B stress: vegetative cells perform better than pre-akinetes. <i>Protoplasma</i> , <b>2018</b> , 255, 1239-1252	3.4	19
296	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> , <b>2017</b> , 246, 971-986	4.7	19
295	Photosynthetic performance of different genotypes of the green alga <i>Klebsormidium</i> sp. (Streptophyta) isolated from biological soil crusts of the Alps. <i>Algological Studies (Stuttgart, Germany: 2007)</i> , <b>2013</b> , 142, 45-62	1	19
294	On Graph Entropy Measures for Knowledge Discovery from Publication Network Data. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 354-362	0.9	19
293	Quality-Based Knowledge Discovery from Medical Text on the Web. <i>Intelligent Systems Reference Library</i> , <b>2013</b> , 145-158	0.8	19
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291	A Deep Learning Approach for Privacy Preservation in Assisted Living <b>2018</b> ,		19
290	From Computer Innovation to Human Integration: Current Trends and Challenges for Pervasive HealthTechnologies. <i>Human-computer Interaction Series</i> , <b>2014</b> , 1-17	0.6	19
289	Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	18
288	Extravaganza Tutorial on Hot Ideas for Interactive Knowledge Discovery and Data Mining in Biomedical Informatics. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 502-515	0.9	18
287	Enhancing Universal Access EEG Based Learnability Assessment. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 813-822	0.9	18
286	On Entropy-Based Data Mining. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 209-226	0.9	18
285	Importance of medical data preprocessing in predictive modeling and risk factor discovery for the frailty syndrome. <i>BMC Medical Informatics and Decision Making</i> , <b>2019</b> , 19, 33	3.6	18

284	Agile Methods and Visual Specification in Software Development: A Chance to Ensure Universal Access. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 453-462	0.9	17
283	Using Mixed Node Publication Network Graphs for Analyzing Success in Interdisciplinary Teams. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 606-617	0.9	17
282	Aniline blue and Calcofluor white staining of callose and cellulose in the streptophyte green algae and. <i>Bio-protocol</i> , <b>2016</b> , 6,	0.9	17
281	In silico modeling for tumor growth visualization. <i>BMC Systems Biology</i> , <b>2016</b> , 10, 59	3.5	17
280	Explainable AI Methods - A Brief Overview. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 13-38	0.9	17
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276	Investigating Agile User-Centered Design in Practice: A Grounded Theory Perspective. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 279-289	0.9	16
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274	Design and Development of a Mobile Medical Application for the Management of Chronic Diseases: Methods of Improved Data Input for Older People. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 119-132	0.9	16
273	Mental Models of Menu Structures in Diabetes Assistants. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 584-591	0.9	16
272	On Text Preprocessing for Opinion Mining Outside of Laboratory Environments. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 618-629	0.9	16
271	Biobanks [A Source of Large Biological Data Sets: Open Problems and Future Challenges. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 317-330	0.9	16
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268	Metatranscriptomic and metabolite profiling reveals vertical heterogeneity within a <i>Zygnema</i> green algal mat from Svalbard (High Arctic). <i>Environmental Microbiology</i> , <b>2019</b> , 21, 4283-4299	5.2	15
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266	Phylogenetic position of <i>Zygonium ericetorum</i> (zygnematophyceae, charophyta) from a high alpine habitat and ultrastructural characterization of unusual aplanospores. <i>Journal of Phycology</i> , <b>2014</b> , 50, 790-803	3	15
265	On Topological Data Mining. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 331-356	0.9	15
264	Perceived usefulness among elderly people: Experiences and lessons learned during the evaluation of a wrist device <b>2010</b> ,		15
263	The XAOS Metric Understanding Visual Complexity as Measure of Usability. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 278-290	0.9	15
262	More Than Just a Game: Accessibility in Computer Games. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 247-260	0.9	15
261	Information fusion as an integrative cross-cutting enabler to achieve robust, explainable, and trustworthy medical artificial intelligence. <i>Information Fusion</i> , <b>2022</b> , 79, 263-278	16.7	15
260	Human-Computer Interaction and Usability Engineering for Elderly (HCI4AGING): Introduction to the Special Thematic Session. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 556-559	0.9	15
259	Informatics as Semiotics Engineering: Lessons Learned from Design, Development and Evaluation of Ambient Assisted Living Applications for Elderly People. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 183-192	0.9	15
258	Interactive Visualization for Information Analysis in Medical Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 109-120	0.9	15
257	Machine Learning and Knowledge Extraction in Digital Pathology Needs an Integrative Approach. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 13-50	0.9	14
256	Dialogue Systems for Intelligent Human Computer Interactions. <i>Electronic Notes in Theoretical Computer Science</i> , <b>2019</b> , 343, 57-71	0.7	14
255	Users' Perceptions and Attitudes Towards Smart Home Technologies. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 203-214	0.9	14
254	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> , <b>2019</b> , 6, 3	5.9	14
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252	An investigation of finger versus stylus input in medical scenarios <b>2008</b> ,		14
251	Design, development and evaluation of online interactive simulation software for learning human genetics. <i>Elektrotechnik Und Informationstechnik</i> , <b>2008</b> , 125, 190-196	0.4	14
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245	An adaptive annotation approach for biomedical entity and relation recognition. <i>Brain Informatics</i> , <b>2016</b> , 3, 157-168	5.9	13
244	Actin-Dynamics in Plant Cells: The Function of Actin-Perturbing Substances: Jasplakinolide, Chondramides, Phalloidin, Cytochalasins, and Latrunculins. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1365, 243-61	1.4	13
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241	Machine learning enhanced virtual autopsy. <i>Autopsy and Case Reports</i> , <b>2017</b> , 7, 3-7	0.6	13
240	Modeling, design, development and evaluation of a hypervideo presentation for digital systems teaching and learning. <i>Multimedia Tools and Applications</i> , <b>2012</b> , 58, 435-452	2.5	13
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238	On Applying Approximate Entropy to ECG Signals for Knowledge Discovery on the Example of Big Sensor Data. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 646-657	0.9	13
237	Protecting Anonymity in Data-Driven Biomedical Science. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 301-316		13
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235	Single colony genetic analysis of epilithic stream algae of the genus spp. <i>Hydrobiologia</i> , <b>2018</b> , 811, 61-75	2.4	12
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231	Mixing Content and Endless Collaboration [MashUps: Towards Future Personal Learning Environments. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 14-23	0.9	12

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229	EVIDENCE FOR KINESIN- AND DYNEIN-LIKE PROTEIN FUNCTION IN CIRCULAR NUCLEAR MIGRATION IN THE GREEN ALGA PLEURENTERIUM TUMIDUM: DIGITAL TIME LAPSE ANALYSIS OF INHIBITOR EFFECTS <sup>1</sup> . <i>Journal of Phycology</i> , <b>2003</b> , 39, 106-114	3	12
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227	Machine Learning and Data Mining Methods for Managing Parkinson's Disease. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 209-220	0.9	12
226	Klebsormidin A and B, Two New UV-Sunscreen Compounds in Green Microalgal and Species (Streptophyta) From Terrestrial Habitats. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 499	5.7	12
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220	State-of-the-Art and Future Challenges in the Integration of Biobank Catalogues. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 261-273	0.9	11
219	The fine art of user-centered software development. <i>Software Quality Journal</i> , <b>2015</b> , 23, 509-536	1.2	11
218	Abundance and Extracellular Release of Phytohormones in Aero-terrestrial Microalgae (Trebouxiophyceae, Chlorophyta) As a Potential Chemical Signaling Source. <i>Journal of Phycology</i> , <b>2020</b> , 56, 1295-1307	3	11
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216	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> , <b>2022</b> , PP,	13.3	11
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214	Designing Web-Applications for Mobile Computers: Experiences with Applications to Medicine. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 262-267	0.9	11
213	Towards the Personalization of CAPTCHA Mechanisms Based on Individual Differences in Cognitive Processing. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 409-426	0.9	11

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210	Toward Human-AI Interfaces to Support Explainability and Causability in Medical AI. <i>Computer</i> , <b>2021</b> , 54, 78-86	1.6	11
209	Mobile Computing in Medicine: Designing Mobile Questionnaires for Elderly and Partially Sighted People. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 732-739	0.9	11
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204	Optimizing Long-Term Treatment of Rheumatoid Arthritis with Systematic Documentation <b>2011</b> ,		10
203	Disease-Disease Relationships for Rheumatic Diseases: Web-Based Biomedical Textmining and Knowledge Discovery to Assist Medical Decision Making <b>2012</b> ,		10
202	Virtual and Mixed Reality Interfaces for e-Training: Examples of Applications in Light Aircraft Maintenance. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 520-529	0.9	10
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200	Gesture-Based Interactions in Video Games with the Leap Motion Controller. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 620-633	0.9	10
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198	Online and Offline Determination of QT and PR Interval and QRS Duration in Electrocardiography. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 1-15	0.9	10
197	Acceptance of Telemedical Treatments – A Medical Professional Point of View. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 325-334	0.9	10
196	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> , <b>2014</b> , 241-254	0.9	10
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193	A Tutorial on Machine Learning and Data Science Tools with Python. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 435-480	0.9	10
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187	Medical artificial intelligence. <i>Communications of the ACM</i> , <b>2021</b> , 64, 34-36	2.5	9
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185	Witnesses for the Doctor in the Loop. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 369-378	0.9	9
184	From Cultural to Individual Adaptive End-User Interfaces: Helping People with Special Needs. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 82-89	0.9	9
183	On Visual Analytics and Evaluation in Cell Physiology: A Case Study. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 495-502	0.9	9
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170	Challenges in the Development and Evaluation of Immersive Digital Educational Games. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 19-30	0.9	8
169	Predicting prostate cancer specific-mortality with artificial intelligence-based Gleason grading. <i>Communications Medicine</i> , <b>2021</b> , 1,		8
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166	The terrestrial green macroalga <i>Prasiola calophylla</i> (Trebouxiophyceae, Chlorophyta): ecophysiological performance under water-limiting conditions. <i>Protoplasma</i> , <b>2017</b> , 254, 1755-1767	3.4	7
165	Cell Organelle Structure and Function in Alpine and Polar Plants are Influenced by Growth Conditions and Climate <b>2012</b> , 43-60		7
164	Development of an Interactive Application for Learning Medical Procedures and Clinical Decision Making. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 211-224	0.9	7
163	Accessible Multimodal Web Pages with Sign Language Translations for Deaf and Hard of Hearing Users <b>2009</b> ,		7
162	Workshop on intelligent user interfaces for ambient assisted living <b>2008</b> ,		7
161	Semantische Informationsextraktion in medizinischen Informationssystemen. <i>Informatik-Spektrum</i> , <b>2007</b> , 30, 69-78	0.3	7
160	XP + UE -XU Praktische Erfahrungen mit eXtreme Usability. <i>Informatik-Spektrum</i> , <b>2006</b> , 29, 91-97	0.3	7
159	Insights into Learning Competence Through Probabilistic Graphical Models. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 250-271	0.9	7

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157	Knowledge Discovery from Complex High Dimensional Data. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 148-167	0.9	7
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155	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> , <b>2012</b> , 163-175	0.6	7
154	Machine Learning for In Silico Modeling of Tumor Growth. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 415-434	0.9	7
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150	Ontology-Guided Principal Component Analysis: Reaching the Limits of the Doctor-in-the-Loop. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 22-33	0.9	6
149	The More the Merrier - Federated Learning from Local Sphere Recommendations. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 367-373	0.9	6
148	Enhancing Patient Safety through Human-Computer Information Retrieval on the Example of German-Speaking Surgical Reports <b>2014</b> ,		6
147	Java's alternatives and the limitations of Java when writing cross-platform applications for mobile devices in the medical domain <b>2009</b> ,		6
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139	Older Users' Wish List for Technology Attributes. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16-27	0.9	6
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136	Visualization of Histopathological Decision Making Using a Roadbook Metaphor <b>2019</b> ,		6
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129	Darwin, Lamarck, or Baldwin: Applying Evolutionary Algorithms to Machine Learning Techniques <b>2014</b> ,		5
128	Useful oblivion versus Information Overload in e-learning examples in the context of Wiki systems <b>2008</b> ,		5
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88	Hemodynamic models for education in physiology. <i>Mathematics and Computers in Simulation</i> , <b>2008</b> , 79, 1039-1047	3.3	3
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76	On Terrain Coverage Optimization by Using a Network Approach for Universal Graph-Based Data Mining and Knowledge Discovery. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 564-573	0.9	2
75	Lecture 8 Biomedical Decision Making: Reasoning and Decision Support <b>2014</b> , 345-377		2
74	HCI in Work and Learning, Life and Leisure. <i>Lecture Notes in Computer Science</i> , <b>2010</b> ,	0.9	2
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70	Entity-Centric Information Access with the Human-in-the-Loop for the Biomedical Domains <b>2017</b> ,		2
69	Property-Based Testing for Parameter Learning of Probabilistic Graphical Models. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 499-515	0.9	2

68	Using Mixed Node Publication Network Graphs for Analyzing Success in Interdisciplinary Teams <b>2014</b> , 737-749		2
67	A Mixed-Method Approach on Digital Educational Games for K12: Gender, Attitudes and Performance. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 42-54	0.9	2
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59	People with Motor and Mobility Impairment: Innovative Multimodal Interfaces to Wheelchairs. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 989-991	0.9	2
58	xxAI - Beyond Explainable Artificial Intelligence. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 3-10	0.9	2
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55	Circularized Visualisation of Genetic Interactions <b>2017</b> ,		1
54	Visualizing Uncertainty for Comparing Genomic Pediatric Brain Cancer Data <b>2019</b> ,		1
53	Teaming up with Artificial Intelligence: The Human in the Loop of Serious Game Pathfinding Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 354-363	0.9	1
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49	Examples of using technology in teaching Human-Computer Interaction according to the Bologna process <b>2008</b> ,		1
48	Open Data to Support CANCER Science- A Bioinformatics Perspective on Glioma Research. <i>Onco</i> , <b>2021</b> , 1, 219-229		1
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44	An Object-Oriented Approach to Manage E-Learning Content Using Learning Objects <b>2006</b> , 89-98		1
43	Lecture 2 Fundamentals of Data, Information, and Knowledge <b>2014</b> , 57-107		1
42	Lecture 6 Multimedia Data Mining and Knowledge Discovery <b>2014</b> , 251-298		1
41	Modeling Elastic Vessels with the LBGK Method in Three Dimensions <b>2007</b> , 213-226		1
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