Konstantinos V Votis

List of Publications by Year
in descending order

139 papers	1,860 citations	394421 19 h-index	395702 33 g-index
150 all docs	150 docs citations	150 times ranked	2047 citing authors

#	Article	IF	Citations
1	COVID-19 Mobile Apps: A Systematic Review of the Literature. Journal of Medical Internet Research, 2020, 22, e23170.	4.3	143
2	Can a Virtual Reality Cognitive Training Application Fulfill a Dual Role? Using the Virtual Supermarket Cognitive Training Application as a Screening Tool for Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2015, 44, 1333-1347.	2.6	123
3	Deep Learning on Multi Sensor Data for Counter UAV Applicationsâ€"A Systematic Review. Sensors, 2019, 19, 4837.	3.8	115
4	On the Design of a Blockchain-Based System to Facilitate Healthcare Data Sharing. , 2018, , .		93
5	Feature learning for Human Activity Recognition using Convolutional Neural Networks. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 18-32.	2.6	87
6	Features, outcomes, and challenges in mobile health interventions for patients living with chronic diseases: A review of systematic reviews. International Journal of Medical Informatics, 2019, 132, 103984.	3.3	66
7	A Preliminary Study on the Feasibility ofÂUsing a Virtual Reality Cognitive Training Application for Remote Detection of Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2017, 56, 619-627.	2.6	65
8	A Gamified Augmented Reality Application for Digital Heritage and Tourism. Applied Sciences (Switzerland), 2020, 10, 7868.	2.5	43
9	Effectiveness of myAirCoach: A mHealth Self-Management System in Asthma. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 1972-1979.e8.	3.8	42
10	An OpenNCP-based Solution for Secure eHealth Data Exchange. Journal of Network and Computer Applications, 2018, 116, 65-85.	9.1	33
11	A Low-Cost Indoor Activity Monitoring System for Detecting Frailty in Older Adults. Sensors, 2019, 19, 452.	3.8	33
12	Open Touch/Sound Maps: A system to convey street data through haptic and auditory feedback. Computers and Geosciences, 2013, 57, 59-67.	4.2	31
13	Computerized decision support and machine learning applications for the prevention and treatment of childhood obesity: A systematic review of the literature. Artificial Intelligence in Medicine, 2020, 104, 101844.	6.5	29
14	Audio content analysis for unobtrusive event detection in smart homes. Engineering Applications of Artificial Intelligence, 2020, 89, 103226.	8.1	28
15	An ontologically principled service-oriented architecture for managing distributed e-government nodes. Journal of Network and Computer Applications, 2008, 31, 131-148.	9.1	27
16	Comprehensive user requirements engineering methodology for secure and interoperable health data exchange. BMC Medical Informatics and Decision Making, 2018, 18, 85.	3.0	27
17	A new tool to assess amnestic mild cognitive impairment in Turkish older adults: virtual supermarket (VSM). Aging, Neuropsychology, and Cognition, 2020, 27, 639-653.	1.3	27
18	A novel social gamified collaboration platform enriched with shop-floor data and feedback for the improvement of the productivity, safety and engagement in factories. Computers and Industrial Engineering, 2020, 139, 105691.	6.3	26

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19	Using Blockchains to Strengthen theÂSecurity of Internet of Things. Communications in Computer and Information Science, 2018, , 90-100.	0.5	25
20	Combining Statistical and Machine Learning Techniques in IoT Anomaly Detection for Smart Homes. , 2019, , .		25
21	A Comparison of Traditional and Serious Game-Based Digital Markers of Cognition in Older Adults with Mild Cognitive Impairment and Healthy Controls. Journal of Alzheimer's Disease, 2021, 79, 1747-1759.	2.6	23
22	A Secured and Trusted Demand Response system based on Blockchain technologies. , 2018, , .		22
23	A knowledge-based approach to user interface adaptation from preferences and for special needs. User Modeling and User-Adapted Interaction, 2017, 27, 445-491.	3.8	21
24	Detection of Mild Cognitive Impairment in an At-Risk Group of Older Adults: Can a Novel Self-Administered Serious Game-Based Screening Test Improve Diagnostic Accuracy?. Journal of Alzheimer's Disease, 2020, 78, 405-412.	2.6	19
25	An mHealth System for Monitoring Medication Adherence in Obstructive Respiratory Diseases Using Content Based Audio Classification. IEEE Access, 2018, 6, 11871-11882.	4.2	18
26	Real-Time Abnormal Event Detection for Enhanced Security in Autonomous Shuttles Mobility Infrastructures. Sensors, 2020, 20, 4943.	3.8	17
27	Securing Emission Data of Smart Vehicles with Blockchain and Self-Sovereign Identities. , 2020, , .		17
28	Deep Learning in mHealth for Cardiovascular Disease, Diabetes, and Cancer: Systematic Review. JMIR MHealth and UHealth, 2022, 10, e32344.	3.7	17
29	Enabling user interface developers to experience accessibility limitations through visual, hearing, physical and cognitive impairment simulation. Universal Access in the Information Society, 2014, 13, 227-248.	3.0	16
30	Transforming the supply-chain management and industry logistics with blockchain smart contracts. , 2019, , .		16
31	A mobile interactive maps application for a visually impaired audience. , 2013, , .		15
32	A Smart-Home IoT Infrastructure for the Support of Independent Living of Older Adults. IFIP Advances in Information and Communication Technology, 2018, , 238-249.	0.7	15
33	Audio-Based Event Detection at Different SNR Settings Using Two-Dimensional Spectrogram Magnitude Representations. Electronics (Switzerland), 2020, 9, 1593.	3.1	15
34	A low-cost room-level indoor localization system with easy setup for medical applications. , 2018, , .		14
35	Implementing a Forms of Consent Smart Contract on an IoT-based Blockchain to promote user trust. , 2018, , .		14
36	Smart, personalized and adaptive ICT solutions for active, healthy and productive ageing with enhanced workability. , 2019, , .		14

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37	Permissioned Blockchains and Virtual Nodes for Reinforcing Trust Between Aggregators and Prosumers in Energy Demand Response Scenarios. , 2019, , .		13
38	Deep multi-sensorial data analysis for production monitoring in hard metal industry. International Journal of Advanced Manufacturing Technology, 2021, 115, 823-836.	3.0	13
39	Towards a Blockchain-based Identity and Trust Management Framework for the IoV Ecosystem. , 2020, , .		13
40	Two-Dimensional Convolutional Recurrent Neural Networks for Speech Activity Detection. , 0, , .		13
41	HapticRiaMaps. , 2011, , .		12
42	Improvement of the Workers' Satisfaction and Collaborative Spirit Through Gamification. Lecture Notes in Computer Science, 2017, , 184-191.	1.3	11
43	A Blockchain Platform in Connected Medical-Device Environments: Trustworthy technology to guard against cyberthreats. IEEE Consumer Electronics Magazine, 2019, 8, 50-55.	2.3	11
44	Comparing CNN and Human Crafted Features for Human Activity Recognition. , 2019, , .		11
45	FrailSafe: An ICT Platform for Unobtrusive Sensing of Multi-Domain Frailty for Personalized Interventions. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1557-1568.	6.3	11
46	From a Low-Cost Air Quality Sensor Network to Decision Support Services: Steps towards Data Calibration and Service Development. Sensors, 2021, 21, 3190.	3.8	11
47	Assessing the Frailty of Older People using Bluetooth Beacons Data. , 2018, , .		10
48	Performance Evaluation of different Hyperledger Sawtooth transaction processors for Blockchain log storage with varying workloads. , 2020, , .		10
49	An analysis of personalized web accessibility. , 2014, , .		9
50	A Semantic Framework to Support the Management of Cloud-Based Service Provision Within a Global Public Inclusive Infrastructure. International Journal of Electronic Commerce, 2015, 20, 142-173.	3.0	9
51	Towards Reliable Integrity in Blacklisting: Facing Malicious IPs in GHOST Smart Contracts. , 2018, , .		9
52	Smart Workplaces for older adults: coping 'ethically' with technology pervasiveness. Universal Access in the Information Society, 2023, 22, 37-49.	3.0	9
53	Audio-based event recognition system for smart homes. , 2017, , .		8
54	Enabling New Technologies for Demand Response Decentralized Validation Using Blockchain. , 2018, , .		8

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55	Cybersecurity in SMEs: The Smart-Home/Office Use Case. , 2019, , .		8
56	A prototype educational virtual assistant for diabetes management. , 2020, , .		8
57	A Web-Based Platform for People With Memory Problems and Their Caregivers (CAREGIVERSPRO-MMD): Mixed-Methods Evaluation of Usability. JMIR Formative Research, 2018, 2, e4.	1.4	8
58	WaaT. , 2011, , .		7
59	Monitoring asthma medication adherence through content based audio classification. , 2016, , .		7
60	A Social Robot-Based Platform for Prevention of Childhood Obesity. , 2019, , .		7
61	Using Auditory Features for WiFi Channel State Information Activity Recognition. SN Computer Science, 2020, 1, 1.	3.6	7
62	A Lightweight Cyber-Security Defense Framework for Smart Homes. , 2020, , .		7
63	Multimodal Deep Learning Framework for Enhanced Accuracy of UAV Detection. Lecture Notes in Computer Science, 2019, , 768-777.	1.3	7
64	Towards the universal semantic assessment of accessibility. , 2009, , .		6
65	Accessibility through Preferences: Context-Aware Recommender of Settings. Lecture Notes in Computer Science, 2014, , 224-235.	1.3	6
66	Utilizing convolution neural networks for the acoustic detection of inhaler actuations. , 2015, , .		6
67	Simulation and Visual Analysis of Neuromusculoskeletal Models and Data. IFIP Advances in Information and Communication Technology, 2015, , 411-420.	0.7	6
68	Extraction of Tabular Data from Document Images. , 2017, , .		6
69	Image-Based Text Classification using 2D Convolutional Neural Networks. , 2019, , .		6
70	Graph-based visualization of sensitive medical data. Multimedia Tools and Applications, 2022, 81, 209-236.	3.9	6
71	A smarthome conversational agent performing implicit demand-response application planning. Integrated Computer-Aided Engineering, 2021, 29, 43-61.	4.6	6
72	Using a Virtual Reality Serious Game to Assess the Performance of Older Adults with Frailty. Advances in Experimental Medicine and Biology, 2020, 1196, 127-139.	1.6	6

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73	A Social Robot-based Platform towards Automated Diet Tracking. , 0, , .		6
74	Usability of the Virtual Supermarket Test for Older Adults with and without Cognitive Impairment. Journal of Alzheimer's Disease Reports, 2022, 6, 229-234.	2.2	6
75	3D HapticWebBrowser. , 2010, , .		5
76	An integrated semantic framework supporting universal accessibility to ICT. Universal Access in the Information Society, 2016, 15, 49-62.	3.0	5
77	Gamification in Social Networking: A Platform for People Living with Dementia and their Caregivers. , 2017, , .		5
78	Complex Engineering Systems as an enabler for security in Internet of Vehicles: The nIoVe approach. , 2019, , .		5
79	A RAkEL-based methodology to estimate software vulnerability characteristics & score - an application to EU project ECHO. Multimedia Tools and Applications, 2022, 81, 9459-9479.	3.9	5
80	Decentralizing Identity Management and Vehicle Rights Delegation through Self-Sovereign Identities and Blockchain. , 2021, , .		5
81	Visual analytics for exploring air quality data in an AI-enhanced IoT environment. , 2019, , .		5
82	On the Generalizability of Two-dimensional Convolutional Neural Networks for Fake Speech Detection. , 2022, , .		5
83	Introducing accessibility in the Web services domain. , 2010, , .		4
84	Synthetic ground truth data generation for automatic trajectory-based ADL detection. , 2014, , .		4
85	Introducing web service accessibility assessment techniques through a unified quality of service context. Service Oriented Computing and Applications, 2014, 8, 159-174.	1.6	4
86	Health Recommender System design in the context of CAREGIVERSPRO-MMD Project. , 2018, , .		4
87	Designing a gamified social platform for people living with dementia and their live-in family caregivers. , 2018, , .		4
88	Two examples of online eHealth platforms for supporting people living with cognitive impairments and their caregivers. , 2018, , .		4
89	An integrated system for automated 3D visualization and monitoring of vehicles. International Journal of Advanced Manufacturing Technology, 2020, 111, 1797-1809.	3.0	4
90	A hybrid matchmaking approach in the ambient assisted living domain. Universal Access in the Information Society, 2022, 21, 53-70.	3.0	4

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91	Towards Big Data Analytics inÂLarge-Scale Federations of Semantically Heterogeneous IoT Platforms. IFIP Advances in Information and Communication Technology, 2018, , 13-23.	0.7	4
92	An Open Source Tool for Simulating a Variety of Vision Impairments in Developing Swing Applications. Lecture Notes in Computer Science, 2009, , 135-144.	1.3	4
93	A Service Oriented Ontological Framework for the Semantic Validation of Web Accessibility. , 2009, , 49-67.		4
94	A Semantic Framework for Assistive Technologies Description to Strengthen UI Adaptation. Lecture Notes in Computer Science, 2014, , 236-245.	1.3	3
95	MyAirCoach: Designing a mobile application for the education of patients regarding asthma disease. , 2015, , .		3
96	A Living Lab Infrastructure for Investigating Activity Monitoring Needs in Service Robot Applications. , 2016, , .		3
97	Discovering the Discriminating Power in Patient Test Features Using Visual Analytics: A Case Study in Parkinsonâ€™s Disease. IFIP Advances in Information and Communication Technology, 2016, , 600-610.	0.7	3
98	Substance deposition assessment in obstructed pulmonary system through numerical characterization of airflow and inhaled particles attributes. BMC Medical Informatics and Decision Making, 2017, 17, 173.	3.0	3
99	Energy-based decision engine for household human activity recognition. , 2018, , .		3
100	Health Vision: An interactive web based platform for healthcare data analysis and visualisation. , 2019, , .		3
101	Smart Discovery of Cultural and Natural Tourist Routes. , 2019, , .		3
102	A Virtual Reality-Based Screening Test for Cognitive Impairment in Small Vessel Disease. Journal of Alzheimer's Disease Reports, 2021, 5, 161-169.	2.2	3
103	Comparison between Self-Reported and Accelerometer-Measured Physical Activity in Young versus Older Children. Digital, 2021, 1, 103-110.	2.2	3
104	Recognizing Daily Activities in Realistic Environments Through Depth-Based User Tracking and Hidden Conditional Random Fields for MCI/AD Support. Lecture Notes in Computer Science, 2015, , 822-838.	1.3	3
105	Applying an Intelligent Personal Agent on a Smart Home Using a Novel Dialogue Generator. IFIP Advances in Information and Communication Technology, 2020, , 384-395.	0.7	3
106	The semantics of personalised web accessibility assessment. , 2010, , .		2
107	Adding haptic feedback to web applications towards improving end-users' cognitive capabilities. , 2015, , .		2
108	Mobile Cognitive Training Games for older adults with mild cognitive impairment. , 2015, , .		2

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109	A Gamification Engine Architecture for Enhancing Behavioral Change Support Systems. , 2018, , .		2
110	An Autonomous Illumination System for Vehicle Documentation Based on Deep Reinforcement Learning. IEEE Access, 2021, 9, 75336-75348.	4.2	2
111	Color-Guided Adaptive Support Weights for Active Stereo Systems. Lecture Notes in Computer Science, 2019, , 501-510.	1.3	2
112	A Unified Semantic Framework for Detailed Description of Assistive Technologies Based on the EASTIN Taxonomy. Lecture Notes in Computer Science, 2014, , 275-282.	1.3	2
113	Developing accessibility multimedia services. , 2020, , .		2
114	A visual impaired simulator to achieve embedded accessibility designs. , 2009, , .		1
115	Automatic semantic service composition aiming at increasing end-users' accessibility. , 2016, , .		1
116	Towards visualizing primary SjÃ¶gren's Syndrome data from heterogeneous cohorts. , 2018, , .		1
117	Requirements elicitation for secure and interoperable crossâ€border health data exchange: the KONFIDO study. IET Software, 2019, 13, 203-210.	2.1	1
118	A systematic distributing sensor system prototype for respiratory diseases. , 2019, , .		1
119	An Audio-Based Method for Assessing Proper Usage of Dry Powder Inhalers. Applied Sciences (Switzerland), 2020, 10, 6677.	2.5	1
120	Knowledge-Based Management andÂReasoning on Cultural and Natural Touristic Routes. IFIP Advances in Information and Communication Technology, 2020, , 355-367.	0.7	1
121	A Unified Environment for Accessing a Suite of Accessibility Evaluation Facilities. Lecture Notes in Computer Science, 2011, , 267-275.	1.3	1
122	An Ambient Intelligence System for the Monitoring, Empowerment, and Disease Evolution Prediction for Patients with Mild Cognitive Impairment. Advances in Psychology, Mental Health, and Behavioral Studies, 2015, , 225-239.	0.1	1
123	A Tool to Monitor and Support Physical Exercise Interventions for MCI and AD Patients. , 2014, , .		1
124	Enabling Accessibility Features in Enhanced VR Environments for Supporting Spatial Abilities and Social Interaction in Elderly and MCI Patients. Advances in Psychology, Mental Health, and Behavioral Studies, 2015, , 147-162.	0.1	1
125	An Efficient Method forÂAddressing COVID-19 Proximity Related Issues inÂAutonomous Shuttles Public Transportation. IFIP Advances in Information and Communication Technology, 2022, , 170-179.	0.7	1
126	Pushing the limits of service-oriented architecture and introducing accessibility terms into a public educational web interaction environment. International Journal of Knowledge and Learning, 2008, 4, 567.	0.2	0

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127	Ontology-supported indexing in P2P networks of digital libraries. International Journal of Web Engineering and Technology, 2008, 4, 44.	0.2	0
128	Workshop on mobile healthcare for the self-management of chronic diseases and the empowerment of patients. , 2016, , .		0
129	Rule Editor for ARDEN Syntax Generation towards a more Effective Self-Management of Asthma Disease Patients. , 2017, , .		0
130	A Multi-objective Data Mining Approach for Road Traffic Prediction. IFIP Advances in Information and Communication Technology, 2018, , 425-436.	0.7	0
131	Smart Algorithm for Unhealthy Behavior Detection in Health Parameters. , 2020, , .		0
132	Enhanced Security Framework for Enabling Facial Recognition in Autonomous Shuttles Public Transportation During COVID-19. IFIP Advances in Information and Communication Technology, 2021, , 145-154.	0.7	0
133	The Impact of a Service Oriented Approach as an Enabler for E-Government Educational Services for All Citizens. Communications in Computer and Information Science, 2008, , 659-668.	0.5	0
134	A Standalone Vision Impairments Simulator for Java Swing Applications. Lecture Notes in Computer Science, 2009, , 387-398.	1.3	0
135	Feature Extraction and Visual Feature Fusion for the Detection of Concurrent Prefix Hijacks. Lecture Notes in Computer Science, 2014, , 310-319.	1.3	0
136	Web Accessibility in Advanced Technologies. Lecture Notes in Computer Science, 2012, , 323-324.	1.3	0
137	Emergency Evacuation Simulation in Open Air Events Using a Floor Field Cellular Automata Model. Lecture Notes in Computer Science, 2019, , 642-653.	1.3	0
138	Evaluating Spectral Magnitude Representation and Spectral Energy for Audio-based Activity Detection. , 2021, , .		0
139	Ethical Decision Making in Iot Data Driven Research: A Case Study of a Large-Scale Pilot. Healthcare (Switzerland), 2022, 10, 957.	2.0	0