

Kevin Curran

List of Publications by Year in descending order

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189
papers

4,012
citations

304368

22
h-index

138251

58
g-index

201
all docs

201
docs citations

201
times ranked

3423
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital image steganography: Survey and analysis of current methods. Signal Processing, 2010, 90, 727-752.	2.1	1,251
2	A survey of active and passive indoor localisation systems. Computer Communications, 2012, 35, 1939-1954.	3.1	420
3	A Survey of Geographical Routing in Wireless Ad-Hoc Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 621-653.	24.8	180
4	An evaluation of indoor location determination technologies. Journal of Location Based Services, 2011, 5, 61-78.	1.4	145
5	An evaluation of image based steganography methods. Multimedia Tools and Applications, 2006, 30, 55-88.	2.6	131
6	A skin tone detection algorithm for an adaptive approach to steganography. Signal Processing, 2009, 89, 2465-2478.	2.1	108
7	An overview of steganography techniques applied to the protection of biometric data. Multimedia Tools and Applications, 2018, 77, 17333-17373.	2.6	80
8	Cloud Computing Security. International Journal of Ambient Computing and Intelligence, 2011, 3, 14-19.	0.8	78
9	Context-aware intelligent recommendation system for tourism. , 2013, , .		78
10	A hash-based image encryption algorithm. Optics Communications, 2010, 283, 879-893.	1.0	63
11	A secure and improved self-embedding algorithm to combat digital document forgery. Signal Processing, 2009, 89, 2324-2332.	2.1	52
12	A dynamic threshold approach for skin segmentation in color images. , 2010, , .		49
13	A novel approach to digital watermarking, exploiting colour spaces. Signal Processing, 2013, 93, 1268-1294.	2.1	48
14	Investigating the problems faced by older adults and people with disabilities in online environments. Behaviour and Information Technology, 2007, 26, 447-453.	2.5	44
15	Taking the information to the public through Library 2.0. Library Hi Tech, 2007, 25, 288-297.	3.7	44
16	Review of Wearable Sensor-Based Health Monitoring Glove Devices for Rheumatoid Arthritis. Sensors, 2021, 21, 1576.	2.1	44
17	Man in the Browser Attacks. International Journal of Ambient Computing and Intelligence, 2012, 4, 29-39.	0.8	43
18	Using Mobile Technology to Provide Personalized Reminiscence for People Living With Dementia and Their Carers: Appraisal of Outcomes From a Quasi-Experimental Study. JMIR Mental Health, 2018, 5, e57.	1.7	39

#	ARTICLE	IF	CITATIONS
19	Biometric Inspired Digital Image Steganography. , 2008, , .		35
20	â€˜There is still so much insideâ€™™: The impact of personalised reminiscence, facilitated by a tablet device, on people living with mild to moderate dementia and their family carers. Dementia, 2020, 19, 1131-1150.	1.0	35
21	Detection of spine curvature using wireless sensors. Journal of King Saud University - Science, 2017, 29, 553-560.	1.6	34
22	Investigating text input methods for mobile phones. Telematics and Informatics, 2006, 23, 1-21.	3.5	32
23	IoT's (Internet of Things) and DfPL (Device-free Passive Localisation) in a disaster management scenario. Simulation Modelling Practice and Theory, 2013, 35, 86-96.	2.2	32
24	Assessing usability testing for people living with dementia. , 2016, , .		30
25	An Intensive Insulinotherapy Mobile Phone Application Built on Artificial Intelligence Techniques. Journal of Diabetes Science and Technology, 2010, 4, 209-220.	1.3	29
26	RFID-Enabled Location Determination Within Indoor Environments. International Journal of Ambient Computing and Intelligence, 2009, 1, 63-86.	0.8	24
27	Involving the user Through Library 2.0. New Review of Information Networking, 2006, 12, 47-59.	0.3	22
28	A new colour space for skin tone detection. , 2009, , .		22
29	The Role of Twitter in the World of Business. International Journal of Business Data Communications and Networking, 2011, 7, 1-15.	1.2	22
30	Location and Mobility-Aware Routing for Improving Multimedia Streaming Performance in MANETs. Wireless Personal Communications, 2016, 86, 1653-1672.	1.8	21
31	Evaluation of Smoothing Algorithms for a RSSI-Based Device-Free Passive Localisation. Advances in Intelligent and Soft Computing, 2010, , 469-476.	0.2	20
32	Novel smart sensor glove for arthritis rehabilitation. , 2013, , .		20
33	BZKP: Blockchain-based zero-knowledge proof model for enhancing healthcare security in Bahrain IoT smart cities and COVID-19 risk mitigation. Arab Journal of Basic and Applied Sciences, 2021, 28, 154-171.	1.0	20
34	Evaluating User Engagement with a Reminiscence App Using Cross-Comparative Analysis of User Event Logs and Qualitative Data. Cyberpsychology, Behavior, and Social Networking, 2019, 22, 543-551.	2.1	19
35	Multilayer Perceptron Neural Network for Detection of Encrypted VPN Network Traffic. , 2018, , .		18
36	Enhancing Steganography in Digital Images. , 2008, , .		17

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37	The Core Aspects of Search Engine Optimisation Necessary to Move up the Ranking. International Journal of Ambient Computing and Intelligence, 2011, 3, 62-70.	0.8	17
38	A dynamic threshold approach for skin tone detection in colour images. International Journal of Biometrics, 2012, 4, 38.	0.3	17
39	A paradigm shift in the distribution of multimedia. Communications of the ACM, 2000, 43, 103-109.	3.3	16
40	Transcoding media for bandwidth constrained mobile devices. International Journal of Network Management, 2005, 15, 75-88.	1.4	15
41	Securing information content using new encryption method and Steganography. , 2008, , .		15
42	Detection of multi-occupancy using device-free passive localisation. IET Wireless Sensor Systems, 2014, 4, 130-137.	1.3	15
43	A method for verifying integrity & authenticating digital media. Applied Computing and Informatics, 2018, 14, 145-158.	3.7	15
44	A multimodal smartphone sensor system for behaviour measurement and health status inference. Information Fusion, 2020, 53, 43-54.	11.7	15
45	Skin tone based Steganography in video files exploiting the YCbCr colour space. , 2008, , .		14
46	Bringing location to IP Addresses with IP Geolocation. Journal of Emerging Technologies in Web Intelligence, 2012, 4, .	0.6	14
47	The effects of badly behaved routers on Internet congestion. International Journal of Network Management, 2003, 13, 83-94.	1.4	13
48	A primer on radio frequency identification for libraries. Library Hi Tech, 2007, 25, 595-611.	3.7	13
49	A formal logic approach to firewall packet filtering analysis and generation. Artificial Intelligence Review, 2008, 29, 223-248.	9.7	13
50	Pinpointing users with location estimation techniques and Wi-Fi hotspot technology. International Journal of Network Management, 2008, 18, 395-408.	1.4	13
51	Wearable Rehab Technology for Automatic Measurement of Patients with Arthritis. , 2011, , .		13
52	Characteristics of a Piezo-Resistive Fabric Stretch Sensor Glove for Home-Monitoring of Rheumatoid Arthritis. , 2014, , .		13
53	Tips for Achieving High Positioning in the Results Pages of the Major Search Engines. Information Technology Journal, 2004, 3, 202-205.	0.3	13
54	Understanding and reducing web delays. International Journal of Network Management, 2005, 15, 89-102.	1.4	12

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55	Knowledge Networks. Lecture Notes in Computer Science, 2006, , 99-114.	1.0	12
56	Monitoring hacker activity with a Honeynet. International Journal of Network Management, 2005, 15, 123-134.	1.4	11
57	Discovering Resources in Computational GRID Environments. Journal of Supercomputing, 2006, 35, 27-49.	2.4	11
58	Echo state networks-based feature extraction for efficient color image segmentation. Concurrency Computation Practice and Experience, 2020, 32, e5719.	1.4	11
59	Reliability and Validity of Clinically Accessible Smart Glove Technologies to Measure Joint Range of Motion. Sensors, 2021, 21, 1555.	2.1	11
60	Mobile MultiModal presentation. , 2004, , .		10
61	HABITS: a Bayesian filter approach to indoor tracking and location. International Journal of Bio-Inspired Computation, 2012, 4, 79.	0.6	10
62	A new method to determine joint range of movement and stiffness in rheumatoid arthritic patients. , 2012, 2012, 6386-9.		10
63	An Investigation into the Use of the Least Significant Bit Substitution Technique in Digital Watermarking. American Journal of Applied Sciences, 2005, 2, 648-654.	0.1	10
64	Context-Awareness in Ambient Intelligence. International Journal of Ambient Computing and Intelligence, 2010, 2, 13-23.	0.8	9
65	A Lightweight Authentication Protocol for Secure Communications between Resource-Limited Devices and Wireless Sensor Networks. International Journal of Information Security and Privacy, 2014, 8, 62-102.	0.6	9
66	History Aware Device-free Passive (DfP) Localisation. Image Processing & Communications, 2011, 16, 21-30.	0.3	9
67	A Watermarking Based Tamper Detection Solution for RFID Tags. , 2010, , .		8
68	Finger movement measurements in arthritic patients using wearable sensor enabled gloves. International Journal of Human Factors Modelling and Simulation, 2011, 2, 276.	0.1	8
69	Probabilistic indoor human movement modeling to aid first responders. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 559-569.	3.3	8
70	To wireless fidelity and beyond — CAPTURE, extending indoor positioning systems. , 2014, , .		8
71	Cloud-based machine learning for the detection of anonymous web proxies. , 2016, , .		8
72	MANET Location Prediction Using Machine Learning Algorithms. Lecture Notes in Computer Science, 2012, , 174-185.	1.0	8

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73	Security Issues in Cloud Computing. , 2012, , 200-208.		8
74	A decision support system for telecommunications. International Journal of Network Management, 2002, 12, 69-80.	1.4	7
75	Expressing emotion in electronic mail. Kybernetes, 2006, 35, 616-631.	1.2	7
76	Challenges and research directions in autonomic communications. International Journal of Internet Protocol Technology, 2007, 2, 3.	0.2	7
77	Combating digital document forgery using new secure information hiding algorithm. , 2008, , .		7
78	The Role of Augmented Reality within Ambient Intelligence. International Journal of Ambient Computing and Intelligence, 2011, 3, 16-34.	0.8	7
79	Location and mobility-aware routing for multimedia streaming in disaster telemedicine. Ad Hoc Networks, 2016, 36, 332-348.	3.4	7
80	Using acoustic sensors to discriminate between nasal and mouth breathing. International Journal of Bioinformatics Research and Applications, 2012, 8, 382.	0.1	6
81	Novel smart sensor glove for arthritis rehabilitation. , 2013, , .		6
82	Location-Based Social Networks. Advances in E-Business Research Series, 0, , 243-253.	0.2	6
83	Detecting the Use of Anonymous Proxies. International Journal of Digital Crime and Forensics, 2018, 10, 74-94.	0.5	6
84	SceneMaker: Creative Technology for Digital StoryTelling. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 29-38.	0.2	6
85	Improving Data Glove Accuracy and Usability Using a Neural Network When Measuring Finger Joint Range of Motion. Sensors, 2022, 22, 2228.	2.1	6
86	Integrating geolocation into electronic finance applications for additional security. International Journal of Electronic Finance, 2011, 5, 272.	0.2	5
87	A practical network coding and routing scheme based on maximum flow combination. International Journal of Network Management, 2012, 22, 373-396.	1.4	5
88	Securing the internet through the detection of anonymous proxy usage. , 2015, , .		5
89	The performance cost of preserving data/query privacy using searchable symmetric encryption. Security and Communication Networks, 2016, 9, 5311-5332.	1.0	5
90	Hybrid passive and active approach to tracking movement within indoor environments. IET Communications, 2018, 12, 1188-1194.	1.5	5

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91	A framework for the transmission of streaming media to mobile devices. International Journal of Network Management, 2002, 12, 41-59.	1.4	4
92	TELEMORPH: BANDWIDTH-DETERMINED MOBILE MULTIMODAL PRESENTATION. Information Technology and Tourism, 2004, 7, 33-47.	3.4	4
93	Worldwide interoperability for microwave access (WiMAX). , 2009, , 129-138.		4
94	Mobile device security. International Journal of Information and Computer Security, 2015, 7, 1.	0.2	4
95	Predicting short-term wholesale prices on the Irish single electricity market with artificial neural networks. , 2017, , .		4
96	Economic costs and health-related quality of life associated with individual specific reminiscence: Results from the InspireD Feasibility Study. Dementia, 2020, 19, 2166-2183.	1.0	4
97	Social Networking Analysis. Studies in Computational Intelligence, 2014, , 367-378.	0.7	4
98	Ambient Interface Design (AID) for the Ergonomically Challenged. International Journal of Ambient Computing and Intelligence, 2010, 2, 57-64.	0.8	4
99	An Active Low Cost Mesh Networking Indoor Tracking System. International Journal of Ambient Computing and Intelligence, 2014, 6, 45-79.	0.8	4
100	Multiple multicast groups for multimedia on the Internet. Information and Software Technology, 1999, 41, 91-99.	3.0	3
101	Resource discovery and management in computational GRID environments. International Journal of Communication Systems, 2006, 19, 639-657.	1.6	3
102	Demonstrating the Wired Equivalent Privacy (WEP) Weaknesses Inherent in Wi-Fi Networks. Information Security Journal: A Global Perspective, 2006, 15, 17-38.	0.1	3
103	Optimising mobile phone self-location estimates by introducing beacon characteristics to the algorithm. Journal of Location Based Services, 2009, 3, 55-73.	1.4	3
104	A Bayesian Filter Approach to Modelling Human Movement Patterns for First Responders within Indoor Locations. , 2011, , .		3
105	Editorial to the Special Section on Ambient Intelligence and Assistive Technologies for Cognitive Impaired People. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 352-352.	3.9	3
106	CAPTURE - Extending the scope of self-localization in Indoor Positioning Systems. , 2015, , .		3
107	Towards a location and mobility-aware routing protocol for improving multimedia streaming performance in MANETs. Peer-to-Peer Networking and Applications, 2015, 8, 543-554.	2.6	3
108	An investigation into smartphone based weakly supervised activity recognition systems. Pervasive and Mobile Computing, 2019, 56, 45-56.	2.1	3

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109	Cyber Terrorism Attacks. , 2007, , 1-6.		3
110	Optimal multimedia transport on the Internet. Journal of Network and Computer Applications, 1998, 21, 149-161.	5.8	2
111	Bandwidth determined transmoding through fuzzy logic in mobile intelligent multimedia presentation systems. Artificial Intelligence Review, 2006, 26, 325-363.	9.7	2
112	Eliminating the Volume of Spam E-Mails Using a Hashcash-Based Solution. Information Security Journal: A Global Perspective, 2006, 15, 22-41.	0.1	2
113	An RFID-enabled middleware architecture for urban gaming. Journal of Location Based Services, 2007, 1, 62-76.	1.4	2
114	Autonomic supervision of stigmergic self-organisation for distributed information retrieval. , 2007, , .		2
115	TeleMorph: A Fuzzy Logic Approach to Network-Aware Transmoding in Mobile Intelligent Multimedia Presentation Systems. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 254-263.	7.3	2
116	Support Vector Machine and Probability Neural Networks in a Device-Free Passive Localization (DFPL) Scenario. Image Processing & Communications, 2012, 17, 9-16.	0.3	2
117	Pattern Matching Techniques for Replacing Missing Sections of Audio Streamed across Wireless Networks. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-38.	2.9	2
118	Reducing the intrusion of user-trained activity recognition systems. , 2018, , .		2
119	How Usable Are Usability Tests? Examining the Suitability of Standard Usability Testing Methods for the Assessment of Apps for People Living with Dementia. Communications in Computer and Information Science, 2019, , 126-143.	0.4	2
120	How to Achieve Compliance with GDPR Article 17 in a Hybrid Cloud Environment. Sci, 2020, 2, 22.	1.8	2
121	How to Achieve Compliance with GDPR Article 17 in a Hybrid Cloud Environment. Sci, 2021, 3, 3.	1.8	2
122	The Problems of Jurisdiction on the Internet. International Journal of Ambient Computing and Intelligence, 2011, 3, 36-42.	0.8	2
123	Vertical search engines. , 2009, , 275-282.		2
124	Dynamicmultimedia protocol stacks. International Journal on Software Tools for Technology Transfer, 1998, 19, 81-88.	0.3	1
125	Scheduled RSS feeds for streaming multimedia to the desktop using RSS enclosures. Information Management and Computer Security, 2006, 14, 65-74.	1.2	1
126	Utilizing Stigmergy in Support of Autonomic Principles. , 2007, , .		1

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127	Utilizing Stigmergy in Support of Autonomic Principles. , 2007, , .		1
128	A computational intelligence method for traversing dynamically constructed networks of knowledge. Telecommunication Systems, 2009, 40, 27-37.	1.6	1
129	Towards objectifying information hiding. , 2010, , .		1
130	Good Practice for Strong Passwords. Edpacs, 2011, 44, 1-13.	0.5	1
131	Guiding robots through wireless location positioning. , 2012, , .		1
132	A self-similarity approach to repairing large dropouts of streamed music. ACM Transactions on Multimedia Computing, Communications and Applications, 2013, 9, 1-20.	3.0	1
133	Detecting Anonymising Proxy Usage on the Internet. Wireless Personal Communications, 2014, 75, 2021-2036.	1.8	1
134	Using artificial neural networks to predict short-term wholesale prices on the Irish Single Electricity Market. , 2016, , .		1
135	Guest Editorial Special Issue on Sensor Technologies for Connected Cars: Devices, Systems and Modeling. IEEE Sensors Journal, 2018, 18, 4775-4776.	2.4	1
136	Internet protocols. , 2009, , 7-16.		1
137	What causes delay in the Internet?. , 2009, , 17-26.		1
138	Hacking and Eavesdropping. , 2007, , 307-317.		1
139	Honeynets. , 2009, , 191-202.		1
140	Support Vector Machine Classification in a Device-Free Passive Localisation (DfPL) Scenario. Advances in Intelligent Systems and Computing, 2013, , 253-260.	0.5	1
141	Detecting Anonymous Proxy Usage. Recent Advances in Communications and Networking Technology, 2017, 6, .	0.1	1
142	An IoT Framework for Detecting Movement Within Indoor Environments. Lecture Notes in Computer Science, 2019, , 333-340.	1.0	1
143	Minimizing the Handoff Latency in Ad-Hoc Networks When Streaming Media to Mobile Devices. International Journal of Wireless Information Networks, 2001, 8, 177-187.	1.8	0
144	An End to End Adaptable Architecture for Streaming Media over IP Networks. Multimedia Tools and Applications, 2003, 20, 225-236.	2.6	0

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145	Examining the effects of caching, compression and popup filtering on internet surfing. International Journal of Communication Systems, 2005, 18, 867-875.	1.6	0
146	Introducing a light-weight autonomic network middleware based on stigmergic mechanisms. Annales Des Telecommunications/Annals of Telecommunications, 2006, 61, 1005-1016.	1.6	0
147	Artificial intelligence and networking. Artificial Intelligence Review, 2008, 29, 179-181.	9.7	0
148	VoiceXML. , 2009, , 75-82.		0
149	Improved Blind Watermarking of 3D Objects Based on Partition. , 2009, , .		0
150	Practical Network Coding Scheme Based on Maximum Flow Combination and Coding Node Identification. , 2010, , .		0
151	Embed, Track and Authenticate Images Online with SDW-WebCrawler. , 2011, , .		0
152	An active low cost mesh networking indoor tracking system. , 2013, , .		0
153	The detection of empty resist bottles or air in the resist lines of a photolithography coating tool. International Journal of Computer Integrated Manufacturing, 2015, 28, 881-892.	2.9	0
154	User-trained activity recognition using smartphones and weak supervision. , 2019, , .		0
155	Real-World Efficacy of an Infrastructure-Free Geomagnetic Indoor Positioning System. , 2020, , .		0
156	A Lightweight Authentication and Encryption Protocol for Secure Communications Between Resource-Limited Devices Without Hardware Modification. , 2021, , 586-630.		0
157	Addressing WiFi Security Concerns. Advances in Distance Education Technologies, 2007, , 302-327.	0.0	0
158	Fighting the Problem of Unsolicited E-Mail Using a Hashcash Proof-of-Work Approach. Advances in Distance Education Technologies, 2007, , 346-374.	0.0	0
159	Prevalent Factors Involved in Delays Associated with Page Downloads. Advances in Distance Education Technologies, 2007, , 55-67.	0.0	0
160	Electronic Surveillance and Civil Rights. , 2007, , 173-181.		0
161	Multimedia for Mobile Devices. , 2008, , 323-330.		0
162	Autonomic Computing. , 2008, , 66-71.		0

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163	The Semantic Web. , 2008, , 505-511.		0
164	Security Issues with Wi-Fi Networks. , 2008, , 498-504.		0
165	Hackers, Hacking, and Eavesdropping. , 2008, , 199-204.		0
166	Really Simple Syndication (RSS). , 2009, , 59-66.		0
167	Podcasting, screencasting, blogging and videoblogging. , 2009, , 119-128.		0
168	Adaptive mobile applications. , 2009, , 169-179.		0
169	The problem of spam email. , 2009, , 221-237.		0
170	Designing for the mobile Web. , 2009, , 153-168.		0
171	Mobile social software. , 2009, , 107-111.		0
172	Javascript, XML, E4X and AJAX. , 2009, , 67-74.		0
173	Web 2.0. , 2009, , 93-106.		0
174	Digital watermarking and steganography. , 2009, , 261-273.		0
175	The invisible Web. , 2009, , 249-259.		0
176	Hybrid Web applications. , 2009, , 139-152.		0
177	WebOS “ moving the operating system to the Web. , 2009, , 51-57.		0
178	Web intelligence. , 2009, , 283-293.		0
179	The long tail. , 2009, , 113-118.		0
180	Wireless 802.11 security. , 2009, , 203-220.		0

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181	Computer hacking. , 2009, , 239-247.		0
182	Mesh networking. , 2009, , 27-40.		0
183	An Improved Self-embedding Algorithm: Digital Content Protection against Compression Attacks in Digital Watermarking. Advances in Intelligent and Soft Computing, 2010, , 59-66.	0.2	0
184	An Activity Monitoring Application for Windows Mobile Devices. International Journal of Ambient Computing and Intelligence, 2010, 2, 1-18.	0.8	0
185	Recent Developments in Simplified Sign-On. , 2011, , 73-83.		0
186	Radio Communication Protocols in a History Aware Device-free Passive (DfP) Localisation. Advances in Intelligent and Soft Computing, 2011, , 469-476.	0.2	0
187	A Lightweight Authentication and Encryption Protocol for Secure Communications Between Resource-Limited Devices Without Hardware Modification. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 1-46.	0.4	0
188	Autonomous Querying for Knowledge Networks. Lecture Notes in Computer Science, 2008, , 249-263.	1.0	0
189	Dynamically Adaptable Web Services Based on the Simple Object Access Protocol. , 0, , 54-75.		0