

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	Improving Data Glove Accuracy and Usability Using a Neural Network When Measuring Finger Joint Range of Motion. <i>Sensors</i> , 2022, 22, 2228.	2.1	6
2	BZKP: Blockchain-based zero-knowledge proof model for enhancing healthcare security in Bahrain IoT smart cities and COVID-19 risk mitigation. <i>Arab Journal of Basic and Applied Sciences</i> , 2021, 28, 154-171.	1.0	20
3	How to Achieve Compliance with GDPR Article 17 in a Hybrid Cloud Environment. <i>Sci</i> , 2021, 3, 3.	1.8	2
4	Review of Wearable Sensor-Based Health Monitoring Glove Devices for Rheumatoid Arthritis. <i>Sensors</i> , 2021, 21, 1576.	2.1	44
5	Reliability and Validity of Clinically Accessible Smart Glove Technologies to Measure Joint Range of Motion. <i>Sensors</i> , 2021, 21, 1555.	2.1	11
6	A Lightweight Authentication and Encryption Protocol for Secure Communications Between Resource-Limited Devices Without Hardware Modification. , 2021, , 586-630.		0
7	“There is still so much inside”: The impact of personalised reminiscence, facilitated by a tablet device, on people living with mild to moderate dementia and their family carers. <i>Dementia</i> , 2020, 19, 1131-1150.	1.0	35
8	Economic costs and health-related quality of life associated with individual specific reminiscence: Results from the InspireD Feasibility Study. <i>Dementia</i> , 2020, 19, 2166-2183.	1.0	4
9	A multimodal smartphone sensor system for behaviour measurement and health status inference. <i>Information Fusion</i> , 2020, 53, 43-54.	11.7	15
10	Real-World Efficacy of an Infrastructure-Free Geomagnetic Indoor Positioning System. , 2020, , .		0
11	Echo state network-based feature extraction for efficient color image segmentation. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5719.	1.4	11
12	How to Achieve Compliance with GDPR Article 17 in a Hybrid Cloud Environment. <i>Sci</i> , 2020, 2, 22.	1.8	2
13	Evaluating User Engagement with a Reminiscence App Using Cross-Comparative Analysis of User Event Logs and Qualitative Data. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2019, 22, 543-551.	2.1	19
14	An investigation into smartphone based weakly supervised activity recognition systems. <i>Pervasive and Mobile Computing</i> , 2019, 56, 45-56.	2.1	3
15	How Usable Are Usability Tests? Examining the Suitability of Standard Usability Testing Methods for the Assessment of Apps for People Living with Dementia. <i>Communications in Computer and Information Science</i> , 2019, , 126-143.	0.4	2
16	User-trained activity recognition using smartphones and weak supervision. , 2019, , .		0
17	An IoT Framework for Detecting Movement Within Indoor Environments. <i>Lecture Notes in Computer Science</i> , 2019, , 333-340.	1.0	1
18	An overview of steganography techniques applied to the protection of biometric data. <i>Multimedia Tools and Applications</i> , 2018, 77, 17333-17373.	2.6	80

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19	A method for verifying integrity & authenticating digital media. Applied Computing and Informatics, 2018, 14, 145-158.	3.7	15
20	Reducing the intrusion of user-trained activity recognition systems. , 2018, , .		2
21	Multilayer Perceptron Neural Network for Detection of Encrypted VPN Network Traffic. , 2018, , .		18
22	Guest Editorial Special Issue on Sensor Technologies for Connected Cars: Devices, Systems and Modeling. IEEE Sensors Journal, 2018, 18, 4775-4776.	2.4	1
23	Hybrid passive and active approach to tracking movement within indoor environments. IET Communications, 2018, 12, 1188-1194.	1.5	5
24	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
25	Detecting the Use of Anonymous Proxies. International Journal of Digital Crime and Forensics, 2018, 10, 74-94.	0.5	6
26	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
27	Detection of spine curvature using wireless sensors. Journal of King Saud University - Science, 2017, 29, 553-560.	1.6	34
28	Predicting short-term wholesale prices on the Irish single electricity market with artificial neural networks. , 2017, , .		4
29	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
30	Detecting Anonymous Proxy Usage. Recent Advances in Communications and Networking Technology, 2017, 6, .	0.1	1
31	The performance cost of preserving data/query privacy using searchable symmetric encryption. Security and Communication Networks, 2016, 9, 5311-5332.	1.0	5
32	Using artificial neural networks to predict short-term wholesale prices on the Irish Single Electricity Market. , 2016, , .		1
33	Cloud-based machine learning for the detection of anonymous web proxies. , 2016, , .		8
34	Assessing usability testing for people living with dementia. , 2016, , .		30
35	Location and mobility-aware routing for multimedia streaming in disaster telemedicine. Ad Hoc Networks, 2016, 36, 332-348.	3.4	7
36	Location and Mobility-Aware Routing for Improving Multimedia Streaming Performance in MANETs. Wireless Personal Communications, 2016, 86, 1653-1672.	1.8	21

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37	Mobile device security. International Journal of Information and Computer Security, 2015, 7, 1.	0.2	4
38	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
39	Securing the internet through the detection of anonymous proxy usage. , 2015, , .		5
40	CAPTURE - Extending the scope of self-localization in Indoor Positioning Systems. , 2015, , .		3
41	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
42	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
43	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
44	To wireless fidelity and beyond — CAPTURE, extending indoor positioning systems. , 2014, , .		8
45	Characteristics of a Piezo-Resistive Fabric Stretch Sensor Glove for Home-Monitoring of Rheumatoid Arthritis. , 2014, , .		13
46	Detecting Anonymising Proxy Usage on the Internet. Wireless Personal Communications, 2014, 75, 2021-2036.	1.8	1
47	Detection of multi-occupancy using device-free passive localisation. IET Wireless Sensor Systems, 2014, 4, 130-137.	1.3	15
48	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
49	Social Networking Analysis. Studies in Computational Intelligence, 2014, , 367-378.	0.7	4
50	An Active Low Cost Mesh Networking Indoor Tracking System. International Journal of Ambient Computing and Intelligence, 2014, 6, 45-79.	0.8	4
51	Probabilistic indoor human movement modeling to aid first responders. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 559-569.	3.3	8
52	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
53	Context-aware intelligent recommendation system for tourism. , 2013, , .		78
54	An active low cost mesh networking indoor tracking system. , 2013, , .		0

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55	IoTs (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
56	Novel smart sensor glove for arthritis rehabilitation. , 2013, , .		20
57	A novel approach to digital watermarking, exploiting colour spaces. Signal Processing, 2013, 93, 1268-1294.	2.1	48
58	A Survey of Geographical Routing in Wireless Ad-Hoc Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 621-653.	24.8	180
59	Novel smart sensor glove for arthritis rehabilitation. , 2013, , .		6
60	Support Vector Machine Classification in a Device-Free Passive Localisation (DfPL) Scenario. Advances in Intelligent Systems and Computing, 2013, , 253-260.	0.5	1
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 dynamic threshold approach for skin tone detection in colour images. International Journal of Biometrics, 2012, 4, 38.	0.3	17
63	Using acoustic sensors to discriminate between nasal and mouth breathing. International Journal of Bioinformatics Research and Applications, 2012, 8, 382.	0.1	6
64	Man in the Browser Attacks. International Journal of Ambient Computing and Intelligence, 2012, 4, 29-39.	0.8	43
65	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
66	Guiding robots through wireless location positioning. , 2012, , .		1
67	A new method to determine joint range of movement and stiffness in rheumatoid arthritic patients. , 2012, 2012, 6386-9.		10
68	A survey of active and passive indoor localisation systems. Computer Communications, 2012, 35, 1939-1954.	3.1	420
69	A practical network coding and routing scheme based on maximum flow combination. International Journal of Network Management, 2012, 22, 373-396.	1.4	5
70	MANET Location Prediction Using Machine Learning Algorithms. Lecture Notes in Computer Science, 2012, , 174-185.	1.0	8
71	Security Issues in Cloud Computing. , 2012, , 200-208.		8
72	Bringing location to IP Addresses with IP Geolocation. Journal of Emerging Technologies in Web Intelligence, 2012, 4, .	0.6	14

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73	A Bayesian Filter Approach to Modelling Human Movement Patterns for First Responders within Indoor Locations. , 2011, , .		3
74	Cloud Computing Security. International Journal of Ambient Computing and Intelligence, 2011, 3, 14-19.	0.8	78
75	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
76	The Role of Augmented Reality within Ambient Intelligence. International Journal of Ambient Computing and Intelligence, 2011, 3, 16-34.	0.8	7
77	The Role of Twitter in the World of Business. International Journal of Business Data Communications and Networking, 2011, 7, 1-15.	1.2	22
78	Integrating geolocation into electronic finance applications for additional security. International Journal of Electronic Finance, 2011, 5, 272.	0.2	5
79	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
80	Wearable Rehab Technology for Automatic Measurement of Patients with Arthritis. , 2011, , .		13
81	Embed, Track and Authenticate Images Online with SDW-WebCrawler. , 2011, , .		0
82	An evaluation of indoor location determination technologies. Journal of Location Based Services, 2011, 5, 61-78.	1.4	145
83	Good Practice for Strong Passwords. Edpacs, 2011, 44, 1-13.	0.5	1
84	History Aware Device-free Passive (DfP) Localisation. Image Processing & Communications, 2011, 16, 21-30.	0.3	9
85	The Problems of Jurisdiction on the Internet. International Journal of Ambient Computing and Intelligence, 2011, 3, 36-42.	0.8	2
86	Recent Developments in Simplified Sign-On. , 2011, , 73-83.		0
87	Radio Communication Protocols in a History Aware Device-free Passive (DfP) Localisation. Advances in Intelligent and Soft Computing, 2011, , 469-476.	0.2	0
88	Digital image steganography: Survey and analysis of current methods. Signal Processing, 2010, 90, 727-752.	2.1	1,251
89	A hash-based image encryption algorithm. Optics Communications, 2010, 283, 879-893.	1.0	63
90	Context-Awareness in Ambient Intelligence. International Journal of Ambient Computing and Intelligence, 2010, 2, 13-23.	0.8	9

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91	An Intensive Insulinotherapy Mobile Phone Application Built on Artificial Intelligence Techniques. Journal of Diabetes Science and Technology, 2010, 4, 209-220.	1.3	29
92	Towards objectifying information hiding. , 2010, , .		1
93	Practical Network Coding Scheme Based on Maximum Flow Combination and Coding Node Identification. , 2010, , .		0
94	A Watermarking Based Tamper Detection Solution for RFID Tags. , 2010, , .		8
95	A dynamic threshold approach for skin segmentation in color images. , 2010, , .		49
96	Evaluation of Smoothing Algorithms for a RSSI-Based Device-Free Passive Localisation. Advances in Intelligent and Soft Computing, 2010, , 469-476.	0.2	20
97	Ambient Interface Design (AID) for the Ergonomically Challenged. International Journal of Ambient Computing and Intelligence, 2010, 2, 57-64.	0.8	4
98	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
99	An Activity Monitoring Application for Windows Mobile Devices. International Journal of Ambient Computing and Intelligence, 2010, 2, 1-18.	0.8	0
100	Worldwide interoperability for microwave access (WiMAX). , 2009, , 129-138.		4
101	RFID-Enabled Location Determination Within Indoor Environments. International Journal of Ambient Computing and Intelligence, 2009, 1, 63-86.	0.8	24
102	A new colour space for skin tone detection. , 2009, , .		22
103	VoiceXML. , 2009, , 75-82.		0
104	Improved Blind Watermarking of 3D Objects Based on Partition. , 2009, , .		0
105	A computational intelligence method for traversing dynamically constructed networks of knowledge. Telecommunication Systems, 2009, 40, 27-37.	1.6	1
106	A secure and improved self-embedding algorithm to combat digital document forgery. Signal Processing, 2009, 89, 2324-2332.	2.1	52
107	A skin tone detection algorithm for an adaptive approach to steganography. Signal Processing, 2009, 89, 2465-2478.	2.1	108
108	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

#	ARTICLE	IF	CITATIONS
109	Internet protocols. , 2009, , 7-16.		1
110	What causes delay in the Internet?. , 2009, , 17-26.		1
111	Really Simple Syndication (RSS). , 2009, , 59-66.		0
112	Podcasting, screencasting, blogging and videoblogging. , 2009, , 119-128.		0
113	Adaptive mobile applications. , 2009, , 169-179.		0
114	The problem of spam email. , 2009, , 221-237.		0
115	Designing for the mobile Web. , 2009, , 153-168.		0
116	Mobile social software. , 2009, , 107-111.		0
117	Vertical search engines. , 2009, , 275-282.		2
118	Javascript, XML, E4X and AJAX. , 2009, , 67-74.		0
119	Web 2.0. , 2009, , 93-106.		0
120	Digital watermarking and steganography. , 2009, , 261-273.		0
121	The invisible Web. , 2009, , 249-259.		0
122	Hybrid Web applications. , 2009, , 139-152.		0
123	WebOS “ moving the operating system to the Web. , 2009, , 51-57.		0
124	Web intelligence. , 2009, , 283-293.		0
125	The long tail. , 2009, , 113-118.		0
126	Wireless 802.11 security. , 2009, , 203-220.		0

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127	Honeynets. , 2009, , 191-202.		1
128	Computer hacking. , 2009, , 239-247.		0
129	Mesh networking. , 2009, , 27-40.		0
130	Artificial intelligence and networking. Artificial Intelligence Review, 2008, 29, 179-181.	9.7	0
131	A formal logic approach to firewall packet filtering analysis and generation. Artificial Intelligence Review, 2008, 29, 223-248.	9.7	13
132	Pinpointing users with location estimation techniques and Wi-Fi hotspot technology. International Journal of Network Management, 2008, 18, 395-408.	1.4	13
133	Skin tone based Steganography in video files exploiting the YCbCr colour space. , 2008, , .		14
134	Enhancing Steganography in Digital Images. , 2008, , .		17
135	Biometric Inspired Digital Image Steganography. , 2008, , .		35
136	Combating digital document forgery using new secure information hiding algorithm. , 2008, , .		7
137	Securing information content using new encryption method and Steganography. , 2008, , .		15
138	Multimedia for Mobile Devices. , 2008, , 323-330.		0
139	Autonomic Computing. , 2008, , 66-71.		0
140	The Semantic Web. , 2008, , 505-511.		0
141	Security Issues with Wi-Fi Networks. , 2008, , 498-504.		0
142	Hackers, Hacking, and Eavesdropping. , 2008, , 199-204.		0
143	Autonomous Querying for Knowledge Networks. Lecture Notes in Computer Science, 2008, , 249-263.	1.0	0
144	An RFID-enabled middleware architecture for urban gaming. Journal of Location Based Services, 2007, 1, 62-76.	1.4	2

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145	Autonomic supervision of stigmergic self-organisation for distributed information retrieval. , 2007, , .		2
146	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
147	Challenges and research directions in autonomic communications. International Journal of Internet Protocol Technology, 2007, 2, 3.	0.2	7
148	Utilizing Stigmergy in Support of Autonomic Principles. , 2007, , .		1
149	A primer on radio frequency identification for libraries. Library Hi Tech, 2007, 25, 595-611.	3.7	13
150	Taking the information to the public through Library 2.0. Library Hi Tech, 2007, 25, 288-297.	3.7	44
151	Utilizing Stigmergy in Support of Autonomic Principles. , 2007, , .		1
152	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
153	Hacking and Eavesdropping. , 2007, , 307-317.		1
154	Addressing WiFi Security Concerns. Advances in Distance Education Technologies, 2007, , 302-327.	0.0	0
155	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
156	Cyber Terrorism Attacks. , 2007, , 1-6.		3
157	Prevalent Factors Involved in Delays Associated with Page Downloads. Advances in Distance Education Technologies, 2007, , 55-67.	0.0	0
158	Electronic Surveillance and Civil Rights. , 2007, , 173-181.		0
159	Scheduled RSS feeds for streaming multimedia to the desktop using RSS enclosures. Information Management and Computer Security, 2006, 14, 65-74.	1.2	1
160	Expressing emotion in electronic mail. Kybernetes, 2006, 35, 616-631.	1.2	7
161	Discovering Resources in Computational GRID Environments. Journal of Supercomputing, 2006, 35, 27-49.	2.4	11
162	An evaluation of image based steganography methods. Multimedia Tools and Applications, 2006, 30, 55-88.	2.6	131

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163	Bandwidth determined transmoding through fuzzy logic in mobile intelligent multimedia presentation systems. <i>Artificial Intelligence Review</i> , 2006, 26, 325-363.	9.7	2
164	Introducing a light-weight autonomic network middleware based on stigmergic mechanisms. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2006, 61, 1005-1016.	1.6	0
165	Investigating text input methods for mobile phones. <i>Telematics and Informatics</i> , 2006, 23, 1-21.	3.5	32
166	Resource discovery and management in computational GRID environments. <i>International Journal of Communication Systems</i> , 2006, 19, 639-657.	1.6	3
167	Eliminating the Volume of Spam E-Mails Using a Hashcash-Based Solution. <i>Information Security Journal: A Global Perspective</i> , 2006, 15, 22-41.	0.1	2
168	Involving the user Through Library 2.0. <i>New Review of Information Networking</i> , 2006, 12, 47-59.	0.3	22
169	Demonstrating the Wired Equivalent Privacy (WEP) Weaknesses Inherent in Wi-Fi Networks. <i>Information Security Journal: A Global Perspective</i> , 2006, 15, 17-38.	0.1	3
170	Knowledge Networks. <i>Lecture Notes in Computer Science</i> , 2006, , 99-114.	1.0	12
171	Transcoding media for bandwidth constrained mobile devices. <i>International Journal of Network Management</i> , 2005, 15, 75-88.	1.4	15
172	Understanding and reducing web delays. <i>International Journal of Network Management</i> , 2005, 15, 89-102.	1.4	12
173	Monitoring hacker activity with a Honeynet. <i>International Journal of Network Management</i> , 2005, 15, 123-134.	1.4	11
174	Examining the effects of caching, compression and popup filtering on internet surfing. <i>International Journal of Communication Systems</i> , 2005, 18, 867-875.	1.6	0
175	An Investigation into the Use of the Least Significant Bit Substitution Technique in Digital Watermarking. <i>American Journal of Applied Sciences</i> , 2005, 2, 648-654.	0.1	10
176	Mobile MultiModal presentation. , 2004, , .		10
177	TELEMORPH: BANDWIDTH-DETERMINED MOBILE MULTIMODAL PRESENTATION. <i>Information Technology and Tourism</i> , 2004, 7, 33-47.	3.4	4
178	Tips for Achieving High Positioning in the Results Pages of the Major Search Engines. <i>Information Technology Journal</i> , 2004, 3, 202-205.	0.3	13
179	An End to End Adaptable Architecture for Streaming Media over IP Networks. <i>Multimedia Tools and Applications</i> , 2003, 20, 225-236.	2.6	0
180	The effects of badly behaved routers on Internet congestion. <i>International Journal of Network Management</i> , 2003, 13, 83-94.	1.4	13

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181	A framework for the transmission of streaming media to mobile devices. International Journal of Network Management, 2002, 12, 41-59.	1.4	4
182	A decision support system for telecommunications. International Journal of Network Management, 2002, 12, 69-80.	1.4	7
183	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
184	A paradigm shift in the distribution of multimedia. Communications of the ACM, 2000, 43, 103-109.	3.3	16
185	Multiple multicast groups for multimedia on the Internet. Information and Software Technology, 1999, 41, 91-99.	3.0	3
186	Optimal multimedia transport on the Internet. Journal of Network and Computer Applications, 1998, 21, 149-161.	5.8	2
187	Dynamicmultimedia protocol stacks. International Journal on Software Tools for Technology Transfer, 1998, 19, 81-88.	0.3	1
188	Location-Based Social Networks. Advances in E-Business Research Series, 0, , 243-253.	0.2	6
189	Dynamically Adaptable Web Services Based on the Simple Object Access Protocol. , 0, , 54-75.		0