

Max MÃ¼hlhÃ¼ser

List of Publications by Year in descending order

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Version: 2024-02-01

234
papers

2,944
citations

430442

18
h-index

377514

34
g-index

242
all docs

242
docs citations

242
times ranked

2253
citing authors

#	ARTICLE	IF	CITATIONS
1	BINet: Multi-perspective business process anomaly classification. Information Systems, 2022, 103, 101458.	2.4	30
2	Processing of botnet tracking data under the GDPR. Computer Law and Security Review, 2022, 45, 105652.	1.3	5
3	Improving Wearable-Based Activity Recognition Using Image Representations. Sensors, 2022, 22, 1840.	2.1	4
4	Learning of Process Representations Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2021, , 109-124.	1.0	5
5	On Generating Network Traffic Datasets with Synthetic Attacks for Intrusion Detection. ACM Transactions on Privacy and Security, 2021, 24, 1-39.	2.2	30
6	An Algorithm for the Detection of Hidden Propaganda in Mixed-Code Text over the Internet. Applied Sciences (Switzerland), 2021, 11, 2196.	1.3	4
7	Case2vec: Advances in Representation Learning for Business Processes. Lecture Notes in Business Information Processing, 2021, , 162-174.	0.8	2
8	A social media-based over layer on the edge for handling emergency-related events. Computers and Electrical Engineering, 2021, 96, 107570.	3.0	2
9	An IoT-based context-aware model for danger situations detection. Computers and Electrical Engineering, 2021, 96, 107571.	3.0	2
10	Detecting and Tracking Criminals in the Real World through an IoT-Based System. Sensors, 2020, 20, 3795.	2.1	12
11	How to Assess the Usability Metrics of E-Voting Schemes. Lecture Notes in Computer Science, 2020, , 257-271.	1.0	2
12	DeepAlign: Alignment-Based Process Anomaly Correction Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2020, , 319-333.	1.0	13
13	Accessible Multimodal Tool Support for Brainstorming Meetings. Lecture Notes in Computer Science, 2020, , 11-20.	1.0	1
14	TRIDEnT. , 2020, , .		3
15	Accessibility of Non-verbal Communication: Making Spatial Information Accessible to People with Disabilities. Lecture Notes in Computer Science, 2020, , 3-10.	1.0	0
16	Pointing Gesture Based User Interaction of Tool Supported Brainstorming Meetings. Lecture Notes in Computer Science, 2020, , 21-29.	1.0	0
17	Walk The Line: Leveraging Lateral Shifts of the Walking Path as an Input Modality for Head-Mounted Displays. , 2020, , .		10
18	Poster: An Assessment Framework for Edge Applications. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Mind the Tap. , 2019, , .		34
20	Manifestation of virtual assistants and robots into daily life: vision and challenges. CCF Transactions on Pervasive Computing and Interaction, 2019, 1, 163-174.	1.7	26
21	Similarity Analysis of Criminals on Social Networks: An Example on Twitter. , 2019, , .		8
22	MAPVI. , 2019, , .		4
23	What the Fog? Edge Computing Revisited: Promises, Applications and Future Challenges. IEEE Access, 2019, 7, 152847-152878.	2.6	41
24	Tracking Criminal Events through IoT Devices and an Edge Computing Approach. , 2019, , .		2
25	Limits in the data for detecting criminals on social media. , 2019, , .		3
26	Usability of Code Voting Modalities. , 2019, , .		7
27	Autonomously detecting sensors in fully distributed botnets. Computers and Security, 2019, 83, 1-13.	4.0	7
28	A Feature-Based Model for the Identification of Electrical Devices in Smart Environments. Sensors, 2019, 19, 2611.	2.1	18
29	Transitions: A Protocol-Independent View of the Future Internet. Proceedings of the IEEE, 2019, 107, 835-846.	16.4	14
30	MOERA: Mobility-Agnostic Online Resource Allocation for Edge Computing. IEEE Transactions on Mobile Computing, 2019, 18, 1843-1856.	3.9	69
31	Detection and mitigation of monitor identification attacks in collaborative intrusion detection systems. International Journal of Network Management, 2019, 29, e2059.	1.4	4
32	A systematic approach to constructing families of incremental topology control algorithms using graph transformation. Software and Systems Modeling, 2019, 18, 279-319.	2.2	10
33	Personalized User-Carried Single Button Interfaces as Shortcuts for Interacting with Smart Devices. , 2018, , .		2
34	<i>Sphinx</i>: a Colluder-Resistant Trust Mechanism for Collaborative Intrusion Detection. IEEE Access, 2018, 6, 72427-72438.	2.6	5
35	Towards Semi-Supervised Classification of Event Streams via Denoising Autoencoders. , 2018, , .		2
36	Asymmetric DCnets for Effective and Efficient Sender Anonymity. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	SmartObjects. , 2018, , .		3
38	Scaling topology pattern matching. , 2018, , .		1
39	FlowPut. , 2018, 2, 1-23.		5
40	Service Entity Placement for Social Virtual Reality Applications in Edge Computing. , 2018, , .		137
41	BINet: Multivariate Business Process Anomaly Detection Using Deep Learning. Lecture Notes in Computer Science, 2018, , 271-287.	1.0	34
42	Towards Blockchain-Based Collaborative Intrusion Detection Systems. Lecture Notes in Computer Science, 2018, , 107-118.	1.0	37
43	Finding Structure in the Unstructured: Hybrid Feature Set Clustering for Process Discovery. Lecture Notes in Computer Science, 2018, , 288-304.	1.0	7
44	CheckMate. , 2018, , .		15
45	Analyzing business process anomalies using autoencoders. Machine Learning, 2018, 107, 1875-1893.	3.4	60
46	Next Generation P2P Botnets: Monitoring Under Adverse Conditions. Lecture Notes in Computer Science, 2018, , 511-531.	1.0	11
47	Ant colonies for efficient and anonymous group communication systems. , 2017, , .		1
48	Beyond the Hype: On Using Blockchains in Trust Management for Authentication. , 2017, , .		50
49	A Classification of Locality in Network Research. ACM Computing Surveys, 2017, 50, 1-37.	16.1	8
50	Online Resource Allocation for Arbitrary User Mobility in Distributed Edge Clouds. , 2017, , .		83
51	Router-Based Brokering for Surrogate Discovery in Edge Computing. , 2017, , .		18
52	Applying a Properties Modeling approach for monitoring Smart Grids. , 2017, , .		4
53	Cloudbits. , 2017, , .		9
54	Systemic Risk Modeling and Evaluation through Simulation and Bayesian Networks. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
55	SensorBuster. , 2017, , .		4
56	A systematic approach to constructing incremental topology control algorithms using graph transformation. Journal of Visual Languages and Computing, 2017, 38, 47-83.	1.8	10
57	A multi-language approach towards the identification of suspicious users on social networks. , 2017, , .		10
58	Dependability assessment of a deicing system through the RAMSAS method. , 2017, , .		6
59	BYO*. , 2017, , .		21
60	Advancing Trust Visualisations for Wider Applicability and User Acceptance. , 2017, , .		0
61	HOLEG: A simulator for evaluating resilient energy networks based on the Holon analogy. , 2017, , .		3
62	SmartObjects. , 2017, , .		0
63	An integrated tool for supporting the design and virtual evaluation of smart grids. , 2017, , .		1
64	An Evaluation of Hybrid Stacking on Interactive Tabletops. , 2017, , .		1
65	Towards Trust-Aware Collaborative Intrusion Detection: Challenges and Solutions. IFIP Advances in Information and Communication Technology, 2017, , 94-109.	0.5	4
66	cMoflon: Model-Driven Generation of Embedded C Code for Wireless Sensor Networks. Lecture Notes in Computer Science, 2017, , 109-125.	1.0	2
67	SCWT. , 2016, , .		1
68	What Belongs Together Comes Together. , 2016, , .		3
69	On the resilience of P2P-based botnet graphs. , 2016, , .		12
70	Topology Control in Wireless Sensor Networks: What Blocks the Breakthrough?. , 2016, , .		9
71	FreeTop. , 2016, , .		3
72	Classquake: Measuring Students' Attentiveness in the Classroom. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
73	Taxonomy and Survey of Collaborative Intrusion Detection. ACM Computing Surveys, 2015, 47, 1-33.	16.1	232
74	StackTop. , 2015, , .		5
75	Internal attacks in anonymous publish-subscribe P2P overlays. , 2015, , .		4
76	a-kTC: Integrating topology control into the stack. , 2015, , .		6
77	C-SDF: Practical solar-aware distributed flow control. , 2015, , .		0
78	Probe-response attacks on collaborative intrusion detection systems: Effectiveness and countermeasures. , 2015, , .		7
79	A honeypot-driven cyber incident monitor. , 2015, , .		18
80	Hide and seek: Detecting sensors in P2P botnets. , 2015, , .		8
81	Community-Based Collaborative Intrusion Detection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 665-681.	0.2	5
82	A Distributed Reputation System for Certification Authority Trust Management. , 2015, , .		6
83	Upgrading Wireless Home Routers for Enabling Large-Scale Deployment of Cloudlets. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 12-29.	0.2	16
84	Zeus Milker: Circumventing the P2P Zeus Neighbor List Restriction Mechanism. , 2015, , .		9
85	Protocol virtualization through dynamic network stacks. , 2015, , .		2
86	SmartObjects. , 2015, , .		4
87	A Study on Proximity-based Hand Input for One-handed Mobile Interaction. , 2015, , .		12
88	A Spatiotemporal Approach for Social Situation Recognition. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 309-316.	0.2	2
89	Towards a trust management system for cloud computing marketplaces: using CAIQ as a trust information source. Security and Communication Networks, 2014, 7, 2185-2200.	1.0	49
90	Evaluating a Linked Open Online Course. , 2014, , .		2

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91	PalmRC: leveraging the palm surface as an imaginary eyes-free television remote control. Behaviour and Information Technology, 2014, 33, 829-843.	2.5	16
92	Introducing asymmetric DC-Nets. , 2014, , .		7
93	CA trust management for the Web PKI. Journal of Computer Security, 2014, 22, 913-959.	0.5	20
94	Learning Analytics in Linked Open Online Courses. , 2014, , .		0
95	Performance Functions for QoS Prediction in Web Service Composites. , 2014, , .		1
96	Secure and Privacy-Friendly Public Key Generation and Certification. , 2014, , .		1
97	Permulin. , 2014, , .		30
98	HosTaGe. , 2014, , .		18
99	Making Tabletop Interaction Accessible for Blind Users. , 2014, , .		4
100	Modeling Degrees of Fairness for Collaborations. , 2014, , .		0
101	Engineering interactive systems with SCXML. , 2014, , .		1
102	SmartObjects. , 2014, , .		4
103	EarPut. , 2014, , .		28
104	The Creation and Evaluation of Lecture E-books. , 2014, , .		1
105	LOOCs – Linked Open Online Courses: A Vision. , 2014, , .		5
106	Twitterize: Anonymous Micro-blogging. , 2014, , .		7
107	On advanced monitoring in resilient and unstructured P2P botnets. , 2014, , .		20
108	A privacy-enhancing protocol that provides in-network data aggregation and verifiable smart meter billing. , 2014, , .		26

#	ARTICLE	IF	CITATIONS
109	A Mind Map for Brainstorming Sessions with Blind and Sighted Persons. Lecture Notes in Computer Science, 2014, , 214-219.	1.0	6
110	EPPP4SMS: Efficient Privacy-Preserving Protocol for Smart Metering Systems and Its Simulation Using Real-World Data. IEEE Transactions on Smart Grid, 2014, 5, 2701-2708.	6.2	37
111	Communicating and visualising multicriterial trustworthiness under uncertainty. , 2014, , .		8
112	Kraken.me Mobile: The Energy Footprint of Mobile Tracking. , 2014, , .		6
113	A depth camera based approach for automatic control of video cameras in lecture halls. Interactive Technology and Smart Education, 2014, 11, 169-183.	3.8	0
114	A S-BPM Suite for the Execution of Cross Company Subject Oriented Business Processes. Lecture Notes in Business Information Processing, 2014, , 161-170.	0.8	3
115	Can We Use S-BPM for Modeling Collaboration Scripts?. Communications in Computer and Information Science, 2014, , 174-187.	0.4	2
116	Formal Based Correctness Check for ePASS-IoS 1.1 Process Models with Integrated User Support for Error Correcting. Lecture Notes in Business Information Processing, 2014, , 20-40.	0.8	1
117	Towards an Information State Update Model Approach for Nonverbal Communication. Lecture Notes in Computer Science, 2014, , 226-230.	1.0	0
118	JVoiceXML as a modality component in the W3C multimodal architecture. Journal on Multimodal User Interfaces, 2013, 7, 183-194.	2.0	19
119	On the Application of Supervised Machine Learning to Trustworthiness Assessment. , 2013, , .		7
120	A Trust-Aware Framework for Evaluating Security Controls of Service Providers in Cloud Marketplaces. , 2013, , .		25
121	Integrating Distributed Discussions in Web 2.0 Applications and Their Integration with Lecture Recordings. , 2013, , .		4
122	A framework for evaluating trust of service providers in cloud marketplaces. , 2013, , .		10
123	Introduction to the special issue on interaction with smart objects. ACM Transactions on Interactive Intelligent Systems, 2013, 3, 1-4.	2.6	6
124	SmartObjects. , 2013, , .		5
125	Permulin. , 2013, , .		6
126	CoStream@Home. , 2013, , .		6

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127	PeriTop. , 2013, , .		1
128	ObjecTop. , 2013, , .		12
129	This network is infected. , 2013, , .		13
130	Interchanging and preserving presentation recordings. , 2013, , .		3
131	Formalizing and Modeling Fairness for Benefit Distribution in Collaborations. , 2013, , .		1
132	Towards Content Exchange and Interoperability between Lecture Recordings. , 2013, , .		4
133	Linked data selectors. , 2013, , .		2
134	A Domain Specific Language for Describing S-BPM Processes. Communications in Computer and Information Science, 2013, , 72-90.	0.4	5
135	Distributed and Anonymous Publish-Subscribe. Lecture Notes in Computer Science, 2013, , 685-691.	1.0	4
136	A Metropolitan-Scale Testbed for Heterogeneous Wireless Sensor Networks to Support CO2 Reduction. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 112-120.	0.2	2
137	Educational interfaces, software, and technology. , 2012, , .		3
138	Toward a theory of interaction in mobile paper-digital ensembles. , 2012, , .		3
139	Occlusion-aware interaction techniques for tabletop systems. , 2012, , .		4
140	PaperVideo. , 2012, , .		12
141	PalmRC. , 2012, , .		75
142	Analysis of privacy-enhancing protocols based on anonymity networks. , 2012, , .		11
143	LightBeam. , 2012, , .		18
144	Noisemap. , 2012, , .		39

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145	Fusion of Opinions under Uncertainty and Conflict – Application to Trust Assessment for Cloud Marketplaces. , 2012, , .		13
146	First responder communication in urban environments. International Journal of Mobile Network Design and Innovation, 2012, 4, 109.	0.1	10
147	Trust as a facilitator in cloud computing: a survey. Journal of Cloud Computing: Advances, Systems and Applications, 2012, 1, 19.	2.1	96
148	DLH/CLS: An Open, Extensible System Design for Prosuming Lecture Recordings and Integrating Multimedia Learning Ecosystems. , 2012, , .		9
149	Automatic Camera Control for Tracking a Presenter during a Talk. , 2012, , .		9
150	kTC - Robust and Adaptive Wireless Ad-Hoc Topology Control. , 2012, , .		23
151	A Smart Kitchen Infrastructure. , 2012, , .		15
152	Configurable Middleware for Multimedia Collaboration Applications. , 2012, , .		1
153	Can We Use Your Router, Please?. International Journal of Information Systems for Crisis Response and Management, 2012, 4, 59-70.	0.7	3
154	Integrating Indicators of Trustworthiness into Reputation-Based Trust Models. International Federation for Information Processing, 2012, , 158-173.	0.4	2
155	Conflict Detection and Lifecycle Management for Access Control in Publish/Subscribe Systems. , 2011, , .		3
156	BridgeFinder: Finding communication bottlenecks in distributed environments. , 2011, , .		1
157	Xpaaand. , 2011, , .		41
158	Towards a Trust Management System for Cloud Computing. , 2011, , .		128
159	PLink. , 2011, , .		5
160	MundoMessage. , 2011, , .		6
161	A study on interpersonal relationships for social interactive television. , 2011, , .		13
162	Evaluating how students would use a collaborative linked learning space. , 2011, , .		1

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163	Workshop on interacting with smart objects. , 2011, , .		9
164	Child computer interaction. , 2011, , .		6
165	W5. , 2011, , .		1
166	Hierarchical task instance mining in interaction histories. , 2011, , .		4
167	SDF — Solar-aware distributed flow in wireless sensor networks. , 2011, , .		4
168	CertainLogic: A Logic for Modeling Trust and Uncertainty. Lecture Notes in Computer Science, 2011, , 254-261.	1.0	32
169	Distributed Execution of S-BPM Business Processes. Communications in Computer and Information Science, 2011, , 19-35.	0.4	6
170	Reducing User Perceived Latency with a Proactive Prefetching Middleware for Mobile SOA Access. International Journal of Web Services Research, 2011, 8, 68-85.	0.5	5
171	Towards a Formalization of Individual Work Execution at Computer Workplaces. Lecture Notes in Computer Science, 2011, , 270-283.	1.0	2
172	Reducing User Perceived Latency in Mobile Processes. , 2010, , .		3
173	Browsing E-Lecture Libraries on Mobile Devices: A Spatial Interaction Concept. , 2010, , .		2
174	Activity-centric support for weakly-structured business processes. , 2010, , .		4
175	Interaction techniques for hybrid piles of documents on interactive tabletops. , 2010, , .		8
176	Physical and digital media usage patterns on interactive tabletop surfaces. , 2010, , .		25
177	Toward more efficient user interfaces for mobile video browsing. , 2010, , .		21
178	Hybrid groups of printed and digital documents on tabletops. , 2010, , .		5
179	Letras. , 2010, , .		7
180	An unusual CS 1 with high standards and confirming results. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
181	Mobile interaction techniques for interrelated videos. , 2010, , .		1
182	Cloud Computing Landscape and Research Challenges Regarding Trust and Reputation. , 2010, , .		84
183	Multilaterally Secure Ubiquitous Auditing. Studies in Computational Intelligence, 2010, , 207-233.	0.7	7
184	Demonstration of First Response Communication Sandbox. , 2009, , .		0
185	Context-Aware Form Filling for Web Applications. , 2009, , .		10
186	MundoMonkey. , 2009, , .		0
187	AUGUR. , 2009, , .		5
188	Edit, inspect and connect your surroundings. , 2009, , .		3
189	CoScribe: Integrating Paper and Digital Documents for Collaborative Knowledge Work. IEEE Transactions on Learning Technologies, 2009, 2, 174-188.	2.2	49
190	Reducing User Perceived Latency with a Middleware for Mobile SOA Access. , 2009, , .		4
191	Optimally Efficient Multicast in Structured Peer-to-Peer Networks. , 2009, , .		1
192	Solving Constraints in Model Transformations. Lecture Notes in Computer Science, 2009, , 132-147.	1.0	13
193	Interacting with Context. Lecture Notes in Computer Science, 2009, , 1-14.	1.0	2
194	Introduction to Ubiquitous Computing. , 2009, , 1-19.		0
195	Enabling End Users to Proactively Tailor Underspecified, Human-Centric Business Processes: "Programming by Example" of Weakly-Structured Process Models. Lecture Notes in Business Information Processing, 2009, , 307-320.	0.8	3
196	Fine-Grained Evaluation of Local Positioning Systems for Specific Target Applications. Lecture Notes in Computer Science, 2009, , 236-250.	1.0	1
197	Web based evaluation of proactive user interfaces. Journal on Multimodal User Interfaces, 2008, 2, 61-72.	2.0	1
198	Using Similarity Measures for Context-Aware User Interfaces. , 2008, , .		8

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199	Evaluation of Peer-to-Peer Overlays for First Response. , 2008, , .		5
200	CoScribe: Using Paper for Collaborative Annotations in Lectures. , 2008, , .		12
201	Systematic first response use case evaluation. , 2008, , .		3
202	A Layer-Based Concept for Presentation Systems. , 2008, , .		2
203	Cross-Media Linking and Tagging Support for Learning Groups. , 2008, , .		0
204	Opportunistic Data Dissemination Using Real-World User Mobility Traces. , 2008, , .		9
205	First response communication sandbox. , 2008, , .		6
206	CLOSING THE VOCABULARY GAP FOR COMPUTING TEXT SIMILARITY AND INFORMATION RETRIEVAL. International Journal of Semantic Computing, 2008, 02, 253-272.	0.4	3
207	Digital paper bookmarks. , 2008, , .		3
208	Enabling end-user driven business process composition through programming by example in a Collaborative Task management system. Visual Languages and Human-Centric Computing, 2009 VL/HCC 2009 IEEE Symposium on, 2008, , .	0.0	6
209	Paper-Centric Structuring in Learning Processes. , 2008, , .		0
210	Describing Data Format Exploits Using Bitstream Segment Graphs. , 2008, , .		1
211	Introduction to Ubiquitous Computing. , 2008, , 1-20.		6
212	Modeling human interaction resources to support the design of wearable multimodal systems. , 2007, , .		4
213	TaskObserver. , 2007, , .		2
214	A framework for the development of educational presentation systems and its application. , 2007, , .		14
215	Engineering intuitive and self-explanatory smart products. , 2007, , .		5
216	Experiences from Developing Educational Presentation Systems. , 2007, , .		0

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217	Integrating Semantic Knowledge into Text Similarity and Information Retrieval. , 2007, , .		3
218	MundoCore: A light-weight infrastructure for pervasive computing. Pervasive and Mobile Computing, 2007, 3, 332-361.	2.1	64
219	Automatically assessing the post quality in online discussions on software. , 2007, , .		42
220	Decomposition of Educational Presentation Systems. , 2007, , .		0
221	MINI: Making MIDI Fit for Real-Time Musical Interaction over the Internet. , 2007, , .		0
222	Experiences from Developing Educational Presentation Systems. , 2007, , .		0
223	Introducing a Java-Based Simple API for Binary REpresentations (SABRE). , 2006, , .		0
224	CoINS: Context Sensitive Indoor Navigation System. , 2006, , .		15
225	An Example for Synchronized Usage of Different Applications in the Classroom. , 2006, , .		1
226	An Open Architecture for Face-to-Face Learning and Its Benefits. , 2006, , .		6
227	Performance Aware On-Chip Communication Synthesis and Optimization for Shared Multi-Bus Based Architecture. , 2005, , .		3
228	Personal orchestra: a real-time audio/video system for interactive conducting. Multimedia Systems, 2004, 9, 458-465.	3.0	25
229	Enhancing classroom lectures with digital sliding blackboards. SIGCSE Bulletin, 2004, 36, 218-222.	0.1	3
230	Interaction support in large-scale lectures. SIGCSE Bulletin, 2004, 36, 244-244.	0.1	0
231	Visual preview for link traversal on the World Wide Web. Computer Networks, 1999, 31, 1525-1532.	3.2	18
232	A Modeling / Programming Framework for Large Media-Integrated Applications. Computer Graphics, 1994, , 155-172.	0.2	0
233	Tool support for the synchronization and presentation of distributed multimedia. Computer Communications, 1992, 15, 611-618.	3.1	31
234	Modern Standards for VoiceXML in Pervasive Multimodal Applications. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 22-48.	0.3	1