

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	Taxonomy and Survey of Collaborative Intrusion Detection. ACM Computing Surveys, 2015, 47, 1-33.	16.1	232
2	Service Entity Placement for Social Virtual Reality Applications in Edge Computing. , 2018, , .		137
3	Towards a Trust Management System for Cloud Computing. , 2011, , .		128
4	Trust as a facilitator in cloud computing: a survey. Journal of Cloud Computing: Advances, Systems and Applications, 2012, 1, 19.	2.1	96
5	Cloud Computing Landscape and Research Challenges Regarding Trust and Reputation. , 2010, , .		84
6	Online Resource Allocation for Arbitrary User Mobility in Distributed Edge Clouds. , 2017, , .		83
7	PalmRC. , 2012, , .		75
8	MOERA: Mobility-Agnostic Online Resource Allocation for Edge Computing. IEEE Transactions on Mobile Computing, 2019, 18, 1843-1856.	3.9	69
9	MundoCore: A light-weight infrastructure for pervasive computing. Pervasive and Mobile Computing, 2007, 3, 332-361.	2.1	64
10	Analyzing business process anomalies using autoencoders. Machine Learning, 2018, 107, 1875-1893.	3.4	60
11	Beyond the Hype: On Using Blockchains in Trust Management for Authentication. , 2017, , .		50
12	CoScribe: Integrating Paper and Digital Documents for Collaborative Knowledge Work. IEEE Transactions on Learning Technologies, 2009, 2, 174-188.	2.2	49
13	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
14	Automatically assessing the post quality in online discussions on software. , 2007, , .		42
15	Xpaaand. , 2011, , .		41
16	What the Fog? Edge Computing Revisited: Promises, Applications and Future Challenges. IEEE Access, 2019, 7, 152847-152878.	2.6	41
17	Noisemap. , 2012, , .		39
18	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

#	ARTICLE	IF	CITATIONS
19	Towards Blockchain-Based Collaborative Intrusion Detection Systems. Lecture Notes in Computer Science, 2018, , 107-118.	1.0	37
20	BINet: Multivariate Business Process Anomaly Detection Using Deep Learning. Lecture Notes in Computer Science, 2018, , 271-287.	1.0	34
21	Mind the Tap. , 2019, , .		34
22	CertainLogic: A Logic for Modeling Trust and Uncertainty. Lecture Notes in Computer Science, 2011, , 254-261.	1.0	32
23	Tool support for the synchronization and presentation of distributed multimedia. Computer Communications, 1992, 15, 611-618.	3.1	31
24	Permulin. , 2014, , .		30
25	BINet: Multi-perspective business process anomaly classification. Information Systems, 2022, 103, 101458.	2.4	30
26	On Generating Network Traffic Datasets with Synthetic Attacks for Intrusion Detection. ACM Transactions on Privacy and Security, 2021, 24, 1-39.	2.2	30
27	EarPut. , 2014, , .		28
28	A privacy-enhancing protocol that provides in-network data aggregation and verifiable smart meter billing. , 2014, , .		26
29	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
30	Personal orchestra: a real-time audio/video system for interactive conducting. Multimedia Systems, 2004, 9, 458-465.	3.0	25
31	Physical and digital media usage patterns on interactive tabletop surfaces. , 2010, , .		25
32	A Trust-Aware Framework for Evaluating Security Controls of Service Providers in Cloud Marketplaces. , 2013, , .		25
33	kTC - Robust and Adaptive Wireless Ad-Hoc Topology Control. , 2012, , .		23
34	Toward more efficient user interfaces for mobile video browsing. , 2010, , .		21
35	BYO*. , 2017, , .		21
36	CA trust management for the Web PKI. Journal of Computer Security, 2014, 22, 913-959.	0.5	20

#	ARTICLE	IF	CITATIONS
37	On advanced monitoring in resilient and unstructured P2P botnets. , 2014, , .		20
38	JVoiceXML as a modality component in the W3C multimodal architecture. Journal on Multimodal User Interfaces, 2013, 7, 183-194.	2.0	19
39	Visual preview for link traversal on the World Wide Web. Computer Networks, 1999, 31, 1525-1532.	3.2	18
40	LightBeam. , 2012, , .		18
41	HosTaGe. , 2014, , .		18
42	A honeypot-driven cyber incident monitor. , 2015, , .		18
43	Router-Based Brokering for Surrogate Discovery in Edge Computing. , 2017, , .		18
44	A Feature-Based Model for the Identification of Electrical Devices in Smart Environments. Sensors, 2019, 19, 2611.	2.1	18
45	PalmRC: leveraging the palm surface as an imaginary eyes-free television remote control. Behaviour and Information Technology, 2014, 33, 829-843.	2.5	16
46	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
47	CoINS: Context Sensitive Indoor Navigation System. , 2006, , .		15
48	A Smart Kitchen Infrastructure. , 2012, , .		15
49	CheckMate. , 2018, , .		15
50	A framework for the development of educational presentation systems and its application. , 2007, , .		14
51	Transitions: A Protocol-Independent View of the Future Internet. Proceedings of the IEEE, 2019, 107, 835-846.	16.4	14
52	Solving Constraints in Model Transformations. Lecture Notes in Computer Science, 2009, , 132-147.	1.0	13
53	A study on interpersonal relationships for social interactive television. , 2011, , .		13
54	Fusion of Opinions under Uncertainty and Conflict – Application to Trust Assessment for Cloud Marketplaces. , 2012, , .		13

#	ARTICLE	IF	CITATIONS
55	This network is infected. , 2013, , .		13
56	DeepAlign: Alignment-Based Process Anomaly Correction Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2020, , 319-333.	1.0	13
57	CoScribe: Using Paper for Collaborative Annotations in Lectures. , 2008, , .		12
58	PaperVideo. , 2012, , .		12
59	ObjecTop. , 2013, , .		12
60	A Study on Proximity-based Hand Input for One-handed Mobile Interaction. , 2015, , .		12
61	On the resilience of P2P-based botnet graphs. , 2016, , .		12
62	Detecting and Tracking Criminals in the Real World through an IoT-Based System. Sensors, 2020, 20, 3795.	2.1	12
63	Analysis of privacy-enhancing protocols based on anonymity networks. , 2012, , .		11
64	Next Generation P2P Botnets: Monitoring Under Adverse Conditions. Lecture Notes in Computer Science, 2018, , 511-531.	1.0	11
65	Context-Aware Form Filling for Web Applications. , 2009, , .		10
66	First responder communication in urban environments. International Journal of Mobile Network Design and Innovation, 2012, 4, 109.	0.1	10
67	A framework for evaluating trust of service providers in cloud marketplaces. , 2013, , .		10
68	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
69	A multi-language approach towards the identification of suspicious users on social networks. , 2017, , .		10
70	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
71	Walk The Line: Leveraging Lateral Shifts of the Walking Path as an Input Modality for Head-Mounted Displays. , 2020, , .		10
72	Opportunistic Data Dissemination Using Real-World User Mobility Traces. , 2008, , .		9

#	ARTICLE	IF	CITATIONS
73	Workshop on interacting with smart objects. , 2011, , .		9
74	DLH/CLS: An Open, Extensible System Design for Prosuming Lecture Recordings and Integrating Multimedia Learning Ecosystems. , 2012, , .		9
75	Automatic Camera Control for Tracking a Presenter during a Talk. , 2012, , .		9
76	Zeus Milker: Circumventing the P2P Zeus Neighbor List Restriction Mechanism. , 2015, , .		9
77	Topology Control in Wireless Sensor Networks: What Blocks the Breakthrough?. , 2016, , .		9
78	Cloudbits. , 2017, , .		9
79	Using Similarity Measures for Context-Aware User Interfaces. , 2008, , .		8
80	Interaction techniques for hybrid piles of documents on interactive tabletops. , 2010, , .		8
81	Communicating and visualising multicriterial trustworthiness under uncertainty. , 2014, , .		8
82	Hide and seek: Detecting sensors in P2P botnets. , 2015, , .		8
83	A Classification of Locality in Network Research. ACM Computing Surveys, 2017, 50, 1-37.	16.1	8
84	Similarity Analysis of Criminals on Social Networks: An Example on Twitter. , 2019, , .		8
85	Letras. , 2010, , .		7
86	On the Application of Supervised Machine Learning to Trustworthiness Assessment. , 2013, , .		7
87	Introducing asymmetric DC-Nets. , 2014, , .		7
88	Twitterize: Anonymous Micro-blogging. , 2014, , .		7
89	Probe-response attacks on collaborative intrusion detection systems: Effectiveness and countermeasures. , 2015, , .		7
90	Finding Structure in the Unstructured: Hybrid Feature Set Clustering for Process Discovery. Lecture Notes in Computer Science, 2018, , 288-304.	1.0	7

#	ARTICLE	IF	CITATIONS
91	Usability of Code Voting Modalities. , 2019, , .		7
92	Autonomously detecting sensors in fully distributed botnets. Computers and Security, 2019, 83, 1-13.	4.0	7
93	Multilaterally Secure Ubiquitous Auditing. Studies in Computational Intelligence, 2010, , 207-233.	0.7	7
94	An Open Architecture for Face-to-Face Learning and Its Benefits. , 2006, , .		6
95	First response communication sandbox. , 2008, , .		6
96	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
97	MundoMessage. , 2011, , .		6
98	Child computer interaction. , 2011, , .		6
99	Introduction to the special issue on interaction with smart objects. ACM Transactions on Interactive Intelligent Systems, 2013, 3, 1-4.	2.6	6
100	Permulin. , 2013, , .		6
101	CoStream@Home. , 2013, , .		6
102	A Mind Map for Brainstorming Sessions with Blind and Sighted Persons. Lecture Notes in Computer Science, 2014, , 214-219.	1.0	6
103	Kraken.me Mobile: The Energy Footprint of Mobile Tracking. , 2014, , .		6
104	a-kTC: Integrating topology control into the stack. , 2015, , .		6
105	A Distributed Reputation System for Certification Authority Trust Management. , 2015, , .		6
106	Dependability assessment of a deicing system through the RAMSAS method. , 2017, , .		6
107	Distributed Execution of S-BPM Business Processes. Communications in Computer and Information Science, 2011, , 19-35.	0.4	6
108	Introduction to Ubiquitous Computing. , 2008, , 1-20.		6

#	ARTICLE	IF	CITATIONS
109	Engineering intuitive and self-explanatory smart products. , 2007, , .		5
110	Evaluation of Peer-to-Peer Overlays for First Response. , 2008, , .		5
111	AUGUR. , 2009, , .		5
112	Hybrid groups of printed and digital documents on tabletops. , 2010, , .		5
113	PLink. , 2011, , .		5
114	SmartObjects. , 2013, , .		5
115	LOOCs – Linked Open Online Courses: A Vision. , 2014, , .		5
116	StackTop. , 2015, , .		5
117	Community-Based Collaborative Intrusion Detection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 665-681.	0.2	5
118	<i>Sphinx</i>: a Colluder-Resistant Trust Mechanism for Collaborative Intrusion Detection. IEEE Access, 2018, 6, 72427-72438.	2.6	5
119	FlowPut. , 2018, 2, 1-23.		5
120	Learning of Process Representations Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2021, , 109-124.	1.0	5
121	A Domain Specific Language for Describing S-BPM Processes. Communications in Computer and Information Science, 2013, , 72-90.	0.4	5
122	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
123	Processing of botnet tracking data under the GDPR. Computer Law and Security Review, 2022, 45, 105652.	1.3	5
124	Modeling human interaction resources to support the design of wearable multimodal systems. , 2007, , .		4
125	Reducing User Perceived Latency with a Middleware for Mobile SOA Access. , 2009, , .		4
126	Activity-centric support for weakly-structured business processes. , 2010, , .		4

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127	Hierarchical task instance mining in interaction histories. , 2011, , .		4
128	SDF — Solar-aware distributed flow in wireless sensor networks. , 2011, , .		4
129	Occlusion-aware interaction techniques for tabletop systems. , 2012, , .		4
130	Integrating Distributed Discussions in Web 2.0 Applications and Their Integration with Lecture Recordings. , 2013, , .		4
131	Towards Content Exchange and Interoperability between Lecture Recordings. , 2013, , .		4
132	Making Tabletop Interaction Accessible for Blind Users. , 2014, , .		4
133	SmartObjects. , 2014, , .		4
134	Internal attacks in anonymous publish-subscribe P2P overlays. , 2015, , .		4
135	SmartObjects. , 2015, , .		4
136	Applying a Properties Modeling approach for monitoring Smart Grids. , 2017, , .		4
137	SensorBuster. , 2017, , .		4
138	MAPVI. , 2019, , .		4
139	Detection and mitigation of monitor identification attacks in collaborative intrusion detection systems. International Journal of Network Management, 2019, 29, e2059.	1.4	4
140	An Algorithm for the Detection of Hidden Propaganda in Mixed-Code Text over the Internet. Applied Sciences (Switzerland), 2021, 11, 2196.	1.3	4
141	Towards Trust-Aware Collaborative Intrusion Detection: Challenges and Solutions. IFIP Advances in Information and Communication Technology, 2017, , 94-109.	0.5	4
142	Distributed and Anonymous Publish-Subscribe. Lecture Notes in Computer Science, 2013, , 685-691.	1.0	4
143	Improving Wearable-Based Activity Recognition Using Image Representations. Sensors, 2022, 22, 1840.	2.1	4
144	Enhancing classroom lectures with digital sliding blackboards. SIGCSE Bulletin, 2004, 36, 218-222.	0.1	3

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145	Performance Aware On-Chip Communication Synthesis and Optimization for Shared Multi-Bus Based Architecture. , 2005, , .		3
146	Integrating Semantic Knowledge into Text Similarity and Information Retrieval. , 2007, , .		3
147	Systematic first response use case evaluation. , 2008, , .		3
148	CLOSING THE VOCABULARY GAP FOR COMPUTING TEXT SIMILARITY AND INFORMATION RETRIEVAL. International Journal of Semantic Computing, 2008, 02, 253-272.	0.4	3
149	Digital paper bookmarks. , 2008, , .		3
150	Edit, inspect and connect your surroundings. , 2009, , .		3
151	Reducing User Perceived Latency in Mobile Processes. , 2010, , .		3
152	Conflict Detection and Lifecycle Management for Access Control in Publish/Subscribe Systems. , 2011, , .		3
153	Educational interfaces, software, and technology. , 2012, , .		3
154	Toward a theory of interaction in mobile paper-digital ensembles. , 2012, , .		3
155	Interchanging and preserving presentation recordings. , 2013, , .		3
156	Classquake: Measuring Students' Attentiveness in the Classroom. , 2015, , .		3
157	What Belongs Together Comes Together. , 2016, , .		3
158	FreeTop. , 2016, , .		3
159	Systemic Risk Modeling and Evaluation through Simulation and Bayesian Networks. , 2017, , .		3
160	HOLEG: A simulator for evaluating resilient energy networks based on the Holon analogy. , 2017, , .		3
161	SmartObjects. , 2018, , .		3
162	Limits in the data for detecting criminals on social media. , 2019, , .		3

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163	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
164	TRIDeNT. , 2020, , .		3
165	Can We Use Your Router, Please?. International Journal of Information Systems for Crisis Response and Management, 2012, 4, 59-70.	0.7	3
166	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
167	TaskObserver. , 2007, , .		2
168	A Layer-Based Concept for Presentation Systems. , 2008, , .		2
169	Browsing E-Lecture Libraries on Mobile Devices: A Spatial Interaction Concept. , 2010, , .		2
170	Linked data selectors. , 2013, , .		2
171	Evaluating a Linked Open Online Course. , 2014, , .		2
172	Protocol virtualization through dynamic network stacks. , 2015, , .		2
173	Personalized User-Carried Single Button Interfaces as Shortcuts for Interacting with Smart Devices. , 2018, , .		2
174	Towards Semi-Supervised Classification of Event Streams via Denoising Autoencoders. , 2018, , .		2
175	Tracking Criminal Events through IoT Devices and an Edge Computing Approach. , 2019, , .		2
176	Case2vec: Advances in Representation Learning for Business Processes. Lecture Notes in Business Information Processing, 2021, , 162-174.	0.8	2
177	How to Assess the Usability Metrics of E-Voting Schemes. Lecture Notes in Computer Science, 2020, , 257-271.	1.0	2
178	Interacting with Context. Lecture Notes in Computer Science, 2009, , 1-14.	1.0	2
179	Towards a Formalization of Individual Work Execution at Computer Workplaces. Lecture Notes in Computer Science, 2011, , 270-283.	1.0	2
180	Integrating Indicators of Trustworthiness into Reputation-Based Trust Models. International Federation for Information Processing, 2012, , 158-173.	0.4	2

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181	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
182	Can We Use S-BPM for Modeling Collaboration Scripts?. Communications in Computer and Information Science, 2014, , 174-187.	0.4	2
183	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
184	cMoflon: Model-Driven Generation of Embedded C Code for Wireless Sensor Networks. Lecture Notes in Computer Science, 2017, , 109-125.	1.0	2
185	A social media-based over layer on the edge for handling emergency-related events. Computers and Electrical Engineering, 2021, 96, 107570.	3.0	2
186	An IoT-based context-aware model for danger situations detection. Computers and Electrical Engineering, 2021, 96, 107571.	3.0	2
187	An Example for Synchronized Usage of Different Applications in the Classroom. , 2006, , .		1
188	Web based evaluation of proactive user interfaces. Journal on Multimodal User Interfaces, 2008, 2, 61-72.	2.0	1
189	Describing Data Format Exploits Using Bitstream Segment Graphs. , 2008, , .		1
190	Optimally Efficient Multicast in Structured Peer-to-Peer Networks. , 2009, , .		1
191	An unusual CS 1 with high standards and confirming results. , 2010, , .		1
192	Mobile interaction techniques for interrelated videos. , 2010, , .		1
193	BridgeFinder: Finding communication bottlenecks in distributed environments. , 2011, , .		1
194	Evaluating how students would use a collaborative linked learning space. , 2011, , .		1
195	W5. , 2011, , .		1
196	Configurable Middleware for Multimedia Collaboration Applications. , 2012, , .		1
197	PeriTop. , 2013, , .		1
198	Formalizing and Modeling Fairness for Benefit Distribution in Collaborations. , 2013, , .		1

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199	Performance Functions for QoS Prediction in Web Service Composites. , 2014, , .		1
200	Secure and Privacy-Friendly Public Key Generation and Certification. , 2014, , .		1
201	Engineering interactive systems with SCXML. , 2014, , .		1
202	The Creation and Evaluation of Lecture E-books. , 2014, , .		1
203	SCWT. , 2016, , .		1
204	Ant colonies for efficient and anonymous group communication systems. , 2017, , .		1
205	An integrated tool for supporting the design and virtual evaluation of smart grids. , 2017, , .		1
206	An Evaluation of Hybrid Stacking on Interactive Tabletops. , 2017, , .		1
207	Scaling topology pattern matching. , 2018, , .		1
208	Accessible Multimodal Tool Support for Brainstorming Meetings. Lecture Notes in Computer Science, 2020, , 11-20.	1.0	1
209	Fine-Grained Evaluation of Local Positioning Systems for Specific Target Applications. Lecture Notes in Computer Science, 2009, , 236-250.	1.0	1
210	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
211	Modern Standards for VoiceXML in Pervasive Multimodal Applications. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 22-48.	0.3	1
212	Poster: An Assessment Framework for Edge Applications. , 2020, , .		1
213	Interaction support in large-scale lectures. SIGCSE Bulletin, 2004, 36, 244-244.	0.1	0
214	Introducing a Java-Based Simple API for Binary REpresentations (SABRE). , 2006, , .		0
215	Experiences from Developing Educational Presentation Systems. , 2007, , .		0
216	Cross-Media Linking and Tagging Support for Learning Groups. , 2008, , .		0

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217	Paper-Centric Structuring in Learning Processes. , 2008, , .		0
218	Demonstration of First Response Communication Sandbox. , 2009, , .		0
219	MundoMonkey. , 2009, , .		0
220	Learning Analytics in Linked Open Online Courses. , 2014, , .		0
221	Modeling Degrees of Fairness for Collaborations. , 2014, , .		0
222	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
223	C-SDF: Practical solar-aware distributed flow control. , 2015, , .		0
224	Advancing Trust Visualisations for Wider Applicability and User Acceptance. , 2017, , .		0
225	SmartObjects. , 2017, , .		0
226	Asymmetric DCnets for Effective and Efficient Sender Anonymity. , 2018, , .		0
227	Introduction to Ubiquitous Computing. , 2009, , 1-19.		0
228	Towards an Information State Update Model Approach for Nonverbal Communication. Lecture Notes in Computer Science, 2014, , 226-230.	1.0	0
229	A Modeling / Programming Framework for Large Media-Integrated Applications. Computer Graphics, 1994, , 155-172.	0.2	0
230	Accessibility of Non-verbal Communication: Making Spatial Information Accessible to People with Disabilities. Lecture Notes in Computer Science, 2020, , 3-10.	1.0	0
231	Pointing Gesture Based User Interaction of Tool Supported Brainstorming Meetings. Lecture Notes in Computer Science, 2020, , 21-29.	1.0	0
232	Decomposition of Educational Presentation Systems. , 2007, , .		0
233	MINI: Making MIDI Fit for Real-Time Musical Interaction over the Internet. , 2007, , .		0
234	Experiences from Developing Educational Presentation Systems. , 2007, , .		0