List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Towards Enhancing theÂMultimodal Interaction ofÂaÂSocial Robot toÂAssist Children withÂAutism inÂEmotion Regulation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 398-415.	0.3	6
2	Alexa toÂSupport Patients withÂDementia andÂFamily Caregivers inÂChallenging Behaviors. Lecture Notes in Networks and Systems, 2022, , 336-345.	0.7	5
3	Assisting older adults with medication reminders through an audio-based activity recognition system. Personal and Ubiquitous Computing, 2021, 25, 337-351.	2.8	8
4	Adoption of Wearable Devices by Persons with Dementia: Lessons from a Non-pharmacological Intervention Enabled by a Social Robot. Studies in Computational Intelligence, 2021, , 145-163.	0.9	1
5	Neural Style Transfer as Data Augmentation for Improving COVID-19 Diagnosis Classification. SN Computer Science, 2021, 2, 410.	3.6	5
6	Personalized Pervasive Health. IEEE Pervasive Computing, 2020, 19, 11-13.	1.3	12
7	Monitoring behavioral symptoms of dementia using activity trackers. Journal of Biomedical Informatics, 2020, 109, 103520.	4.3	17
8	Gait Activity Classification on Unbalanced Data from Inertial Sensors Using Shallow and Deep Learning. Sensors, 2020, 20, 4756.	3.8	13
9	Literature Review on Transfer Learning for Human Activity Recognition Using Mobile and Wearable Devices with Environmental Technology. SN Computer Science, 2020, 1, 1.	3.6	31
10	A Social Robot as Therapy Facilitator in Interventions to Deal with Dementia-related Behavioral Symptoms. , 2020, , .		31
11	Digital healthcare in Latin America. Communications of the ACM, 2020, 63, 72-77.	4.5	5
12	Semi-Automated Data Labeling for Activity Recognition in Pervasive Healthcare. Sensors, 2019, 19, 3035.	3.8	12
13	Preliminary evaluation of a self-management health app by people with cognitive impairment. , 2019, , .		0
14	Incorporating Conversational Strategies in a Social Robot to Interact with People with Dementia. Dementia and Geriatric Cognitive Disorders, 2019, 47, 140-148.	1.5	25
15	A Conversational Robot to Conduct Therapeutic Interventions for Dementia. IEEE Pervasive Computing, 2019, 18, 10-19.	1.3	15
16	Challenges Providing Ground Truth for Pervasive Healthcare Systems. IEEE Pervasive Computing, 2019, 18, 100-104.	1.3	6
17	An Exploratory Study to Detect Temporal Orientation Using Bluetooth's sensor. , 2019, , .		1
18	Affective Embodied Agents and Their Effect on Decision Making. Proceedings (mdpi), 2019, 31, .	0.2	2

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19	Recognition of Gait Activities Using Acceleration Data from A Smartphone and A Wearable Device. Proceedings (mdpi), 2019, 31, .	0.2	5
20	Activity Monitoring of People with Dementia in a Cognitive Stimulation Intervention. Proceedings (mdpi), 2019, 31, 64.	0.2	2
21	Recognition of audible disruptive behavior from people with dementia. Personal and Ubiquitous Computing, 2019, 23, 145-157.	2.8	8
22	A multi-site study on walkability, data sharing and privacy perception using mobile sensing data gathered from the mk-sense platform. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2199-2211.	4.9	4
23	Monitoring Eating Behaviors for a Nutritionist E-Assistant Using Crowdsourcing. Computer, 2018, 51, 43-51.	1.1	11
24	Assessing empathy and managing emotions through interactions with an affective avatar. Health Informatics Journal, 2018, 24, 182-193.	2.1	28
25	Effect of technology on aging perception. Health Informatics Journal, 2018, 24, 171-181.	2.1	12
26	Data Labeling for Participatory Sensing Using Geature Recognition with Smartwatches. Proceedings (mdpi), 2018, 2, .	0.2	1
27	Towards an Adaptive Conversational Robot using Biosignals. , 2018, , .		3
28	Towards Social Robots that Support Exercise Therapies for Persons with Dementia. , 2018, , .		10
29	Technology and Aging: Ubiquitous Sensing Technology for Aging Research. , 2018, , 175-184.		0
30	Strategies to Facilitate the Acceptance of a Social Robot by People with Dementia. , 2018, , .		5
31	Opportunistic Mobile Sensing in the Fog. Wireless Communications and Mobile Computing, 2018, 2018, 1-18.	1.2	6
32	The Future of Pervasive Health. IEEE Pervasive Computing, 2017, 16, 16-20.	1.3	9
33	Inferring Human Behavior using Mobile and Wearable Devices. , 2017, , .		3
34	Co-designing ambient-assisted interventions using digital interlocutors for people with dementia. , 2017, , .		7
35	Pervasive Technologies for Perception Change. IEEE Pervasive Computing, 2017, 16, 78-81.	1.3	1
36	Data Quality in Mobile Sensing Datasets for Pervasive Healthcare. Scalable Computing and Communications, 2017, , 217-238.	0.5	6

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37	Adaptive exergames to support active aging: An action research study. Pervasive and Mobile Computing, 2017, 34, 60-78.	3.3	15
38	Detecting Anxiety States when Caring for People with Dementia. Methods of Information in Medicine, 2017, 56, 55-62.	1.2	8
39	Use and Adoption of an Assisted Cognition System to Support Therapies for People with Dementia. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	1.3	7
40	Naturalistic Enactment to Elicit and Recognize Caregiver State Anxiety. Journal of Medical Systems, 2016, 40, 192.	3.6	9
41	Inferring Social Isolation in Older Adults through Ambient Intelligence and Social Networking Sites. Computacion Y Sistemas, 2016, 20, .	0.3	7
42	Human-Robot Interaction to Deal with Problematic Behaviors from People with Dementia. , 2016, , .		2
43	Ambient Displays to Assist Caregivers Monitoring the Sleep of People with Dementia. Lecture Notes in Computer Science, 2016, , 40-45.	1.3	1
44	Using Mixed Methods in Health Information Technology Evaluation. Studies in Health Technology and Informatics, 2016, 225, 83-7.	0.3	1
45	Promoting Active Aging with a paper-based SNS application. , 2015, , .		7
46	Healthcare Engineering Defined: A White Paper. Journal of Healthcare Engineering, 2015, 6, 635-648.	1.9	29
47	Casual gaming to encourage active ageing. IEEE Latin America Transactions, 2015, 13, 1940-1950.	1.6	6
48	Living Labs for Pervasive Healthcare Research. IEEE Pervasive Computing, 2015, 14, 86-89.	1.3	13
49	Behavioral data gathering for assessing functional status and health in older adults using mobile phones. Personal and Ubiquitous Computing, 2015, 19, 379-391.	2.8	33
50	Design of a Predictive Scheduling System to Improve Assisted Living Services for Elders. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-31.	4.5	12
51	Scalable identification of mixed environmental sounds, recorded from heterogeneous sources. Pattern Recognition Letters, 2015, 68, 153-160.	4.2	21
52	Dashboards for improving patient care: Review of the literature. International Journal of Medical Informatics, 2015, 84, 87-100.	3.3	241
53	A social cloud-based tool to deal with time and media mismatch of intergenerational family communication. Future Generation Computer Systems, 2015, 53, 140-151.	7.5	34
54	Use and Adoption of a Touch-Based Occupational Therapy Tool for People Suffering from Dementia. Lecture Notes in Computer Science, 2015, , 459-468.	1.3	2

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55	Do Technology-Related Stimuli Affect Age Estimation?. Lecture Notes in Computer Science, 2015, , 259-264.	1.3	1
56	Detecting State Anxiety When Caring for People with Dementia. Lecture Notes in Computer Science, 2015, , 98-109.	1.3	2
57	Estimating the Perception of Physical Fatigue Among Older Adults Using Mobile Phones. Lecture Notes in Computer Science, 2015, , 84-96.	1.3	1
58	Technology and Aging. , 2015, , 121-135.		4
59	Exergames as Tools Used on Interventions to Cope with the Effects of Ageing: A Systematic Review. Lecture Notes in Computer Science, 2014, , 402-405.	1.3	4
60	Collaborative opportunistic sensing with mobile phones. , 2014, , .		7
61	Effects of Communication Media Choice on the Quality and Efficacy of Emergency Calls Assisted by a Mobile Nursing Protocol Tool. CIN - Computers Informatics Nursing, 2014, 32, 550-558.	0.5	2
62	Intervention Tailoring in Augmented Cognition Systems for Elders With Dementia. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 361-367.	6.3	28
63	Using Augmented Reality to Help Children with Autism Stay Focused. IEEE Pervasive Computing, 2014, 13, 38-46.	1.3	136
64	Clairvoyance: A framework to integrate shared displays and mobile computing devices. Future Generation Computer Systems, 2014, 34, 190-200.	7.5	4
65	Detecting Disruptive Vocalizations for Ambient Assisted Interventions for Dementia. Lecture Notes in Computer Science, 2014, , 356-363.	1.3	5
66	Special theme: ambient assisted living for mobility: safety, well-being and inclusion. Personal and Ubiquitous Computing, 2013, 17, 1061-1062.	2.8	4
67	Augmented reality annotations to assist persons with Alzheimers and their caregivers. Personal and Ubiquitous Computing, 2013, 17, 1105-1116.	2.8	30
68	Enriching in-person encounters through social media: A study on family connectedness for the elderly. International Journal of Human Computer Studies, 2013, 71, 889-899.	5.6	100
69	A Context-Aware Baby Monitor for the Automatic Selective Archiving of the Language of Infants. , 2013, , .		5
70	Design of exergames with the collaborative participation of older adults. , 2013, , .		12
71	Everyday Patient-Care Technologies for Alzheimer's Disease. IEEE Pervasive Computing, 2013, 12, 80-83.	1.3	14
72	Ambient Awareness to Strengthen the Family Social Network of Older Adults. Computer Supported Cooperative Work, 2013, 22, 309-344.	2.9	52

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73	Behavior-Aware Computing: Applications and Challenges. IEEE Pervasive Computing, 2013, 12, 14-17.	1.3	14
74	Aligning intergenerational communication patterns and rhythms in the age of social media. , 2013, , .		8
75	Nurse home visits with or without alert buttons versus usual care in the frail elderly: a randomized controlled trial. Clinical Interventions in Aging, 2013, 8, 85.	2.9	24
76	Introduction to the thematic issue. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 423-424.	1.4	0
77	Mobile and Context-Aware Grocery Shopping to Promote Active Aging. Lecture Notes in Computer Science, 2013, , 71-79.	1.3	4
78	Reducing Drivers' Distractions in Phone-Based Navigation Assistants Using Landmarks. Lecture Notes in Computer Science, 2013, , 342-349.	1.3	1
79	An Ontology-Driven Framework for Resource-Efficient Collaborative Sensing. Lecture Notes in Computer Science, 2013, , 366-369.	1.3	0
80	Enriching family personal encounters with ambient social media. , 2012, , .		2
81	Using ontologies to reduce user intervention to deploy sensing campaigns with the InCense toolkit. , 2012, , .		4
82	Persuading older adults to socialize and exercise through ambient games. , 2012, , .		20
83	Assessing muscle disease related to aging using ambient videogames. , 2012, , .		4
84	LaCasa: Location And Context-Aware Safety Assistant. , 2012, , .		23
85	Ambient Videogames for Health Monitoring in Older Adults. , 2012, , .		9
86	Assessing the SALSA architecture for developing agent-based ambient computing applications. Science of Computer Programming, 2012, 77, 46-65.	1.9	14
87	Object and Gesture Recognition to Assist Children with Autism during the Discrimination Training. Lecture Notes in Computer Science, 2012, , 877-884.	1.3	13
88	Implementing Shared Displays: A Tool for Smooth Integration of Large-Screen TVs and Mobile Devices. Lecture Notes in Computer Science, 2012, , 278-286.	1.3	0
89	Intervention Tailoring in AAL Systems for Elders with Dementia Using Ontologies. Lecture Notes in Computer Science, 2012, , 338-345.	1.3	0
90	An Agent-Based Middleware for the Design of Activity-Aware Applications. IEEE Intelligent Systems, 2011, 26, 15-23.	4.0	8

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91	Uncertainty Management in Context-Aware Applications: Increasing Usability and User Trust. Wireless Personal Communications, 2011, 56, 37-53.	2.7	21
92	Towards a reference architecture for the design of mobile shared workspaces. Future Generation Computer Systems, 2011, 27, 109-118.	7.5	19
93	Usability assessment of a pervasive system to assist caregivers in dealing with repetitive behaviors of patients with dementia. , 2011, , .		14
94	Naturalistic enactment to stimulate user experience for the evaluation of a mobile elderly care application. , 2011, , .		9
95	Understanding and Supporting Lightweight Communication in Hospital Work. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 140-146.	3.2	30
96	Ecological Validity and Pervasiveness in the Evaluation of Ubiquitous Computing Technologies for Health Care. International Journal of Human-Computer Interaction, 2010, 26, 414-444.	4.8	22
97	Providing Awareness of Elder's Situations of Care through a Context-Aware Notification Environment: A Preliminary Evaluation. , 2010, , .		2
98	Supporting Informal Interaction in a Hospital through Impromptu Social Networking. Lecture Notes in Computer Science, 2010, , 305-320.	1.3	7
99	Ambient Displays for Integrating Older Adults into Social Networking Sites. Lecture Notes in Computer Science, 2010, , 321-336.	1.3	26
100	MODELING AND ANALYSIS OF KNOWLEDGE FLOWS IN SOFTWARE PROCESSES THROUGH THE EXTENSION OF THE SOFTWARE PROCESS ENGINEERING METAMODEL. International Journal of Software Engineering and Knowledge Engineering, 2009, 19, 185-211.	0.8	6
101	Home-based communication system for older adults and their remote family. Computers in Human Behavior, 2009, 25, 609-618.	8.5	52
102	Designing mobile shared workspaces by instantiation. , 2009, , .		5
103	Sentient Displays in Support of Hospital Work. Advances in Soft Computing, 2009, , 103-111.	0.4	7
104	Adaptive Awareness of Hospital Patient Information through Multiple Sentient Displays. International Journal of Ambient Computing and Intelligence, 2009, 1, 27-38.	1.1	5
105	Knowledge Flow Identification. , 2009, , 2337-2342.		2
106	Evaluating Design Concepts to Support Informal Communication in Hospitals through the Development of a Tool Based on an Iterative Evaluation. Lecture Notes in Computer Science, 2009, , 1013-1022.	1.3	0
107	Increasing Opportunities for Interaction in Time-Critical Mobile Collaborative Settings. Lecture Notes in Computer Science, 2009, , 41-48.	1.3	1
108	A framework to analyze information systems as knowledge flow facilitators. Information and Software Technology, 2008, 50, 481-498.	4.4	27

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109	Reducing the Uncertainty on Location Estimation of Mobile Users to Support Hospital Work. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 861-866.	2.9	9
110	Activity-Aware Computing for Healthcare. IEEE Pervasive Computing, 2008, 7, 51-57.	1.3	75
111	Activity Recognition for the Smart Hospital. IEEE Intelligent Systems, 2008, 23, 50-57.	4.0	165
112	Assisting the Study of Indoor Mobility: Issues, Methods and Tools. , 2008, , .		2
113	Augmenting informal collaboration in hospitals through pervasive computing. , 2008, , .		1
114	COLLABORATION AND COORDINATION IN HOSPITAL WORK THROUGH ACTIVITY-AWARE COMPUTING. International Journal of Cooperative Information Systems, 2008, 17, 413-442.	0.8	6
115	Persuasive Virtual Communities to Promote a Healthy Lifestyle among Patients with Chronic Diseases. Lecture Notes in Computer Science, 2008, , 74-82.	1.3	8
116	Monitoring behavioral patterns in hospitals through activity-aware computing. , 2008, , .		13
117	Understanding and supporting personal activity management by IT service workers. , 2008, , .		5
118	mobileSJ. International Journal of E-Collaboration, 2008, 4, 60-73.	0.5	6
119	An Agent Middleware for Ubiquitous Computing in Healthcare. Studies in Computational Intelligence, 2008, , 117-149.	0.9	3
120	Context Awareness and Uncertainty in Collocated Collaborative Systems. Lecture Notes in Computer Science, 2008, , 41-56.	1.3	2
121	Monitoring Behavioral Patterns in Hospitals through Activity-Aware Computing. , 2008, , .		1
122	Uncertainty Management in a Location-Aware Museum Guide. Lecture Notes in Computer Science, 2008, , 841-850.	1.3	0
123	Mobility in hospital work: towards a pervasive computing hospital environment. International Journal of Electronic Healthcare, 2007, 3, 72.	0.3	58
124	Sensor Networks, Wearable Computing, and Healthcare Applications. IEEE Pervasive Computing, 2007, 6, 58-61.	1.3	23
125	Hidden Markov Models for Activity Recognition in Ambient Intelligence Environments. , 2007, , .		15
126	Activity Recognition for Context-aware Hospital Applications: Issues and Opportunities for the Deployment of Pervasive Networks. Mobile Networks and Applications, 2007, 12, 155-171.	3.3	57

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127	Special issue on groupware and multimedia. Multimedia Tools and Applications, 2007, 32, 137-138.	3.9	0
128	The Augmented Patient Chart: Seamless Integration of Physical and Digital Artifacts for Hospital Work. Lecture Notes in Computer Science, 2007, , 1006-1015.	1.3	3
129	Supporting the Planning and Organization of Multiple Activities in the Workplace. Lecture Notes in Computer Science, 2007, , 235-238.	1.3	3
130	Supporting Informal Co-located Collaboration in Hospital Work. Lecture Notes in Computer Science, 2007, , 255-270.	1.3	12
131	Activity-Aware Computing in Mobile Collaborative Working Environments. Lecture Notes in Computer Science, 2007, , 337-353.	1.3	9
132	Supporting Relationship Maintenance for Elders and Family Living Abroad. IEEE Pervasive Computing, 2006, 5, 47-47.	1.3	3
133	Context Aware Retrieval of Health Information on the Web. , 2006, , .		3
134	Privacy-Aware Autonomous Agents for Pervasive Healthcare. IEEE Intelligent Systems, 2006, 21, 55-62.	4.0	49
135	Estimating Hospital Work Activities in Context-Aware Healthcare Applications. , 2006, , .		16
136	Assessing the use of instant messaging in online learning environments. Interactive Learning Environments, 2006, 14, 205-218.	6.4	36
137	Supporting the Management of Multiple Activities in Mobile Collaborative Working Environments. Lecture Notes in Computer Science, 2006, , 381-388.	1.3	6
138	Pervasive computing in hospitals. , 2006, , 48-77.		10
139	Identifying Knowledge Flows in Communities of Practice. , 2006, , 210-217.		6
140	Understanding mobile work in a distributed information space. , 2005, , .		8
141	A web-agent based system to extend the elders social family networks. , 2005, , .		0
142	Adaptive Distribution Support for Co-authored Documents on the Web. Lecture Notes in Computer Science, 2005, , 33-48.	1.3	0
143	How to Manage Knowledge in the Software Maintenance Process. Lecture Notes in Computer Science, 2004, , 78-87.	1.3	10
144	Estimating User Location in a WLAN Using Backpropagation Neural Networks. Lecture Notes in Computer Science, 2004, , 737-746.	1.3	17

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145	Using a Multi-agent Architecture to Manage Knowledge in the Software Maintenance Process. Lecture Notes in Computer Science, 2004, , 1181-1188.	1.3	3
146	Integrating Context-Aware Public Displays Into a Mobile Hospital Information System. IEEE Transactions on Information Technology in Biomedicine, 2004, 8, 279-286.	3.2	65
147	Location-Aware Access to Hospital Information and Services. IEEE Transactions on Information Technology in Biomedicine, 2004, 8, 448-455.	3.2	102
148	Informal interactions and their implications for online courses. Computers and Education, 2004, 42, 149-168.	8.3	58
149	On the design of potential collaboration spaces. International Journal of Computer Applications in Technology, 2004, 19, 184.	0.5	13
150	Empirical Evaluation of Collaborative Support for Distributed Pair Programming. Lecture Notes in Computer Science, 2004, , 215-222.	1.3	8
151	Opportunistic Interaction in P2P Ubiquitous Environments. Lecture Notes in Computer Science, 2004, , 349-362.	1.3	5
152	Understanding and Supporting Knowledge Flows in a Community of Software Developers. Lecture Notes in Computer Science, 2004, , 52-66.	1.3	21
153	Access Control-Based Distribution of Shared Documents. Lecture Notes in Computer Science, 2004, , 12-13.	1.3	0
154	Context-aware mobile communication in hospitals. Computer, 2003, 36, 38-46.	1.1	150
155	Supporting Software Maintenance in Web Repositories through a Multi-agent System. , 2003, , 307-317.		5
156	Supporting Context-Aware Collaboration in a Hospital: An Ethnographic Informed Design. Lecture Notes in Computer Science, 2003, , 330-344.	1.3	21
157	A Multi-agent System for Knowledge Management in Software Maintenance. Lecture Notes in Computer Science, 2003, , 415-421.	1.3	5
158	Before Getting There: Potential and Actual Collaboration. Lecture Notes in Computer Science, 2002, , 147-167.	1.3	12
159	PIÑAS: Supporting a Community of Co-authors on the Web. Lecture Notes in Computer Science, 2002, , 113-124.	1.3	5
160	An Adaptive Cooperative Web Authoring Environment. Lecture Notes in Computer Science, 2002, , 535-538.	1.3	1
161	An experience in collaborative software engineering education. IEEE Software, 2001, 18, 47-53.	1.8	74

162 Work environments in electronic meeting systems. , 2001, , .

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163	Supporting a Project-Based, Collaborative, Distance Learning Lab. , 2000, , 170.		1
164	An extensible platform for the development of synchronous groupware. Information and Software Technology, 2000, 42, 389-406.	4.4	5
165	Asymptotically stable visual servoing of manipulators via neural networks. Journal of Field Robotics, 2000, 17, 659-669.	0.7	6
166	An Adaptive, Collaborative Environment to Develop Good Habits in Programming. Lecture Notes in Computer Science, 2000, , 262-271.	1.3	26
167	Syntactic-Conceptual Analysis of Sentences in Spanish Using a Restricted Lexicon for Disambiguation. Lecture Notes in Computer Science, 2000, , 538-547.	1.3	0
168	Image-retrieval agent: integrating image content and text. IEEE Intelligent Systems, 1999, 14, 36-39.	0.2	7
169	A two-step approach to satellite image classification using fuzzy neural networks and the ID3 learning algorithm. Expert Systems With Applications, 1998, 14, 211-218.	7.6	7
170	Capture and Dissemination of Specialized Knowledge in Network Organizations. Journal of Organizational Computing and Electronic Commerce, 1997, 7, 201-226.	1.8	6
171	<title>Satellite image destriping: a wavelet-based approach</title> . , 1997, , .		1
172	Capture and Dissemination of Specialized Knowledge in Network Organizations. Journal of Organizational Computing and Electronic Commerce, 1997, 7, 201-226.	1.8	8
173	Hypermedia support for collaborative design. Design Studies, 1994, 15, 45-58.	3.1	4
174	Supporting collaborative engineering design. Engineering With Computers, 1993, 9, 125-132.	6.1	11
175	Web Intelligence in Mexico. , 0, , .		0
176	Sphere juggler: fast context retrieval in support of working spheres. , 0, , .		3
177	Continuous Tracking of User Location in WLANs Using Recurrent Neural Networks. , 0, , .		14
178	A Flexible Distribution Service for a Co-authoring Environment on the Web. , 0, , .		0
179	A Web-Based System to Facilitate Elders Communication with Their Families Living Abroad. , 0, , .		3

180 Supporting Quality of Privacy (QoP) in Pervasive Computing. , 0, , .

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#	Article	IF	CITATIONS
181	Adaptive Awareness of Hospital Patient Information through Multiple Sentient Displays. , 0, , 31-42.		Ο