

Maurice D Mulvenna

List of Publications by Year in descending order

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Version: 2024-02-01

173
papers

3,352
citations

218381

26
h-index

205818

48
g-index

188
all docs

188
docs citations

188
times ranked

2957
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability of Addenbrooke's Cognitive Examination III in differentiating between dementia, mild cognitive impairment and older adults who have not reported cognitive problems. <i>European Journal of Ageing</i> , 2022, 19, 495-507.	1.2	4
2	The impact of the COVID-19 pandemic on grocery shopper behaviour: Analysis of shopper behaviour change using store transaction data. <i>Journal of Consumer Behaviour</i> , 2022, 21, 259-271.	2.6	12
3	How Machine Learning Classification Accuracy Changes in a Happiness Dataset with Different Demographic Groups. <i>Computers</i> , 2022, 11, 83.	2.1	5
4	An analysis of the impact of suicide prevention messages and memorials on motorway bridges. <i>Suicide and Life-Threatening Behavior</i> , 2021, 51, 657-664.	0.9	0
5	Ethical Issues in Democratizing Digital Phenotypes and Machine Learning in the Next Generation of Digital Health Technologies. <i>Philosophy and Technology</i> , 2021, 34, 1945-1960.	2.6	19
6	An Oil Well Dataset Derived from Satellite-Based Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 1132.	1.8	19
7	Prediction of chemical compounds properties using a deep learning model. <i>Neural Computing and Applications</i> , 2021, 33, 13345-13366.	3.2	18
8	Digital reminiscence app created by people living with dementia and carers: Usability and eye gaze analysis. <i>Health Expectations</i> , 2021, 24, 1207-1219.	1.1	10
9	Chatbots to Support Mental Wellbeing of People Living in Rural Areas: Can User Groups Contribute to Co-design?. <i>Journal of Technology in Behavioral Science</i> , 2021, 6, 652-665.	1.3	16
10	Discovering and comparing types of general practitioner practices using geolocational features and prescribing behaviours by means of K-means clustering. <i>Scientific Reports</i> , 2021, 11, 18289.	1.6	3
11	Co-creating Requirements and Assessing End-User Acceptability of a Voice-Based Chatbot to Support Mental Health: A Thematic Analysis of a Living Lab Workshop. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 201-212.	0.3	2
12	A Content and Knowledge Management System Supporting Emotion Detection from Speech. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 369-378.	0.3	1
13	"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
14	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
15	Aggregated topic models for increasing social media topic coherence. <i>Applied Intelligence</i> , 2020, 50, 138-156.	3.3	56
16	Meaningful Big Data Integration for a Global COVID-19 Strategy. <i>IEEE Computational Intelligence Magazine</i> , 2020, 15, 51-61.	3.4	19
17	A Low Cost Indoor Positioning System Using Bluetooth Low Energy. <i>IEEE Access</i> , 2020, 8, 136858-136871.	2.6	73
18	Towards Chatbots to Support Bibliotherapy Preparation and Delivery. <i>Lecture Notes in Computer Science</i> , 2020, , 127-142.	1.0	6

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19	Why do people call crisis helplines? Identifying taxonomies of presenting reasons and discovering associations between these reasons. Health Informatics Journal, 2020, 26, 2597-2613.	1.1	8
20	Ecological Momentary Assessment Within a Digital Health Intervention for Reminiscence in Persons With Dementia and Caregivers: User Engagement Study. JMIR MHealth and UHealth, 2020, 8, e17120.	1.8	18
21	Reliability of Supervised Machine Learning Using Synthetic Data in Health Care: Model to Preserve Privacy for Data Sharing. JMIR Medical Informatics, 2020, 8, e18910.	1.3	70
22	Behavior of Callers to a Crisis Helpline Before and During the COVID-19 Pandemic: Quantitative Data Analysis. JMIR Mental Health, 2020, 7, e22984.	1.7	18
23	Quality of data measurements in the big data era: Lessons learned from MIDAS project. IEEE Instrumentation and Measurement Magazine, 2020, 23, 18-24.	1.2	2
24	Evaluating User Engagement with a Reminiscence App Using Cross-Comparative Analysis of User Event Logs and Qualitative Data. Cyberpsychology, Behavior, and Social Networking, 2019, 22, 543-551.	2.1	19
25	Popular topics in HCI: Special Issue of Selected Extended Papers from the 32nd International BCS Human Computer Interaction Conference. Interacting With Computers, 2019, 31, 113-115.	1.0	0
26	Meaningful Integration of Data, Analytics and Services of Computer-Based Medical Systems: The MIDAS Touch. , 2019, , .		7
27	Exploring temporal behaviour of app users completing ecological momentary assessments using mental health scales and mood logs. Behaviour and Information Technology, 2019, 38, 1016-1027.	2.5	9
28	A Framework for the Development of a Dynamic Adaptive Intelligent User Interface to Enhance the User Experience. , 2019, , .		8
29	Assessing the Usability of a Chatbot for Mental Health Care. Lecture Notes in Computer Science, 2019, , 121-132.	1.0	39
30	How Usable Are Usability Tests? Examining the Suitability of Standard Usability Testing Methods for the Assessment of Apps for People Living with Dementia. Communications in Computer and Information Science, 2019, , 126-143.	0.4	2
31	Data analytics of call log data to identify caller behaviour patterns from a mental health and well-being helpline. Health Informatics Journal, 2019, 25, 1722-1738.	1.1	20
32	Usability Evaluation of a Co-created Big Data Analytics Platform for Health Policy-Making. Lecture Notes in Computer Science, 2019, , 194-207.	1.0	6
33	User Archetype Discovery By Cluster Analysis of Caller Log Data: Tenure Evolution is Stable as Time Period Reduces. , 2019, , .		2
34	Behaviour Analytics of Users Completing Ecological Momentary Assessments in the Form of Mental Health Scales and Mood Logs on a Smartphone App. , 2019, , .		3
35	Using Data Mining to Predict Hospital Admissions From the Emergency Department. IEEE Access, 2018, 6, 10458-10469.	2.6	88
36	Insights into Antidepressant Prescribing Using Open Health Data. Big Data Research, 2018, 12, 41-48.	2.6	14

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37	Teaching Ethical Design in the Era of Autonomous and Intelligent Systems. , 2018, , .		0
38	Toxicity Prediction Using Pre-trained Autoencoder. , 2018, , .		3
39	Multivariate Testing Confirms the Effect of Age"Gender Congruence on Click-Through Rates from Online Social Network Digital Advertisements. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2018, 21, 646-654.	2.1	10
40	Machine learning using synthetic and real data: Similarity of evaluation metrics for different healthcare datasets and for different algorithms. , 2018, , .		16
41	Using Mobile Technology to Provide Personalized Reminiscence for People Living With Dementia and Their Carers: Appraisal of Outcomes From a Quasi-Experimental Study. <i>JMIR Mental Health</i> , 2018, 5, e57.	1.7	39
42	Predicting Caller Type From a Mental Health and Well-Being Helpline: Analysis of Call Log Data. <i>JMIR Mental Health</i> , 2018, 5, e47.	1.7	9
43	Frequency domain analysis of telephone helpline call data. , 2018, , .		2
44	Principles for fostering the transdisciplinary development of assistive technologies. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 480-490.	1.3	56
45	SenseCare: Using Affective Computing to Manage and Care for the Emotional Wellbeing of Older People. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017, , 352-356.	0.2	6
46	Behavioural Usage Analysis of a Reminiscing App for People Living with Dementia and their Carers. , 2017, , .		9
47	Ethical by Design. , 2017, , .		23
48	Digital technology in healthcare and elderly care. , 2017, , .		4
49	Views of Caregivers on the Ethics of Assistive Technology Used for Home Surveillance of People Living with Dementia. <i>Neuroethics</i> , 2017, 10, 255-266.	1.7	41
50	Participatory design-based requirements elicitation involving people living with dementia towards a home-based platform to monitor emotional wellbeing. , 2017, , .		5
51	Unsupervised Sentiment Classification: A Hybrid Sentiment-Topic Model Approach. , 2017, , .		4
52	Towards a chatbot for digital counselling. , 2017, , .		72
53	Towards the Integration of Prescription Analytics into Health Policy and General Practice. <i>Lecture Notes in Computer Science</i> , 2017, , 193-206.	1.0	0
54	UX-Handle: A Cloud-based System to Streamline Usability Testing Analytics. , 2017, , .		1

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55	Assessing usability testing for people living with dementia. , 2016, , .		30
56	SenseCare: Towards an Experimental Platform for Home-Based, Visualisation of Emotional States of People with Dementia. Lecture Notes in Computer Science, 2016, , 63-74.	1.0	5
57	Exploring the Relationship Between Online Social Network Site Usage and the Impact on Quality of Life for Older and Younger Users: An Interaction Analysis. Journal of Medical Internet Research, 2016, 18, e245.	2.1	12
58	Improved lexicon-based sentiment analysis for social media analytics. Security Informatics, 2015, 4, .	2.5	105
59	Multi-faceted informatics system for digitising and streamlining the reablement care model. Journal of Biomedical Informatics, 2015, 56, 30-41.	2.5	10
60	Contemporary Gold Rush or Scientific Advancement. Advances in Computational Intelligence and Robotics Book Series, 2015, , 210-226.	0.4	0
61	Night optimised care technology for users needing assisted lifestyles. Behaviour and Information Technology, 2014, 33, 1261-1277.	2.5	12
62	Flexible context aware interface for ambient assisted living. Human-centric Computing and Information Sciences, 2014, 4, .	6.1	36
63	Twitter Sentiment Analysis for Security-Related Information Gathering. , 2014, , .		13
64	A method for assessing the usability of an on screen display for a brain-computer interface. International Journal of Computers in Healthcare, 2014, 2, 43.	0.5	1
65	The Use of Twitter by Local Government in Northern Ireland. Communications in Computer and Information Science, 2014, , 93-106.	0.4	0
66	Identifying the Barriers and Enablers for Supporting Learners with Special Needs in Higher Education. Advances in Higher Education and Professional Development Book Series, 2014, , 467-485.	0.1	1
67	Triple Helix Engagement with Users. International Journal of Innovation in the Digital Economy, 2014, 5, 51-70.	0.2	1
68	Engaging user communities with eParticipation technology: findings from a European project. Technology Analysis and Strategic Management, 2013, 25, 281-294.	2.0	16
69	Perceived barriers to participation in R&D programmes for SMEs within the European Union. Technology Analysis and Strategic Management, 2013, 25, 329-339.	2.0	9
70	A qualitative study of the lived experiences of disabled post-transition students in higher education institutions in Northern Ireland. Studies in Higher Education, 2013, 38, 1334-1350.	2.9	55
71	Discovering social behaviour variances of younger and older users through social interaction analysis. International Journal of Web Science, 2013, 2, 44.	0.8	2
72	Keyword-Based Sentiment Mining using Twitter. International Journal of Ambient Computing and Intelligence, 2013, 5, 56-69.	0.8	48

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73	Participatory Research to Design a Novel Telehealth System to Support the Night-Time Needs of People with Dementia: NOCTURNAL. International Journal of Environmental Research and Public Health, 2013, 10, 6764-6782.	1.2	41
74	Data and Information Quality Issues in Ambient Assisted Living Systems. Journal of Data and Information Quality, 2012, 4, 1-15.	1.5	32
75	Investigating the use of brain-computer interaction to facilitate creativity. , 2012, , .		13
76	Multi-agent System Feedback and Support for Ambient Assisted Living. , 2012, , .		3
77	Usability of a new electronic assistive device for community-dwelling persons with mild dementia. Aging and Mental Health, 2012, 16, 584-591.	1.5	90
78	Realistic expectations with brain computer interfaces. Journal of Assistive Technologies, 2012, 6, 233-244.	0.9	13
79	A pattern analysis and visualisation system for sleep monitoring in ambient assisted living environment. International Journal of Computers in Healthcare, 2012, 1, 320.	0.5	2
80	Dynamic similarity-based activity detection and recognition within smart homes. International Journal of Pervasive Computing and Communications, 2012, 8, 264-278.	1.1	9
81	Knowledge discovery from activity monitoring to support independent living of people with early dementia. , 2012, , .		4
82	Functional Requirements for Assistive Technology for People with Cognitive Impairments and Dementia. Communications in Computer and Information Science, 2012, , 146-151.	0.4	7
83	An Examination of the Behaviour of Young and Older Users of Facebook. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 9-16.	0.2	3
84	Discovering the Social Interaction Patterns of Younger and Older Facebook Users. Lecture Notes in Computer Science, 2012, , 295-303.	1.0	1
85	Does Age Make a Difference in the Behaviour of Online Social Network Users?. , 2011, , .		16
86	The NOCTURNAL Ambient Assisted Living System. , 2011, , .		1
87	Assisted Living Services for Reminding and Prompting Activities of Daily Living: A Preliminary Case Study. , 2011, , .		0
88	Cognitive Sensor Networks: Towards Self-Adapting Ambient Intelligence for Pervasive Healthcare. , 2011, , .		5
89	A sleep pattern analysis and visualization system to support people with early dementia. , 2011, , .		9
90	Visualization of data for ambient assisted living services. , 2011, 49, 110-117.		42

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91	Dynamic multi-component based activity detection and recognition within smart homes. , 2011, , .		1
92	Multi-agent Interactions for Ambient Assisted Living. , 2011, , .		6
93	Bridging practices, theories, and technologies to support reminiscence. , 2011, , .		4
94	Living Labs Are Innovation Catalysts. Smart Innovation, Systems and Technologies, 2011, , 253-264.	0.5	2
95	Towards Standardized User and Application Interfaces for the Brain Computer Interface. Lecture Notes in Computer Science, 2011, , 573-582.	1.0	3
96	NOCTURNAL Ambient Assisted Living. Lecture Notes in Computer Science, 2011, , 350-354.	1.0	2
97	Monitoring and visualising of night time activity patterns of people with early dementia. International Journal of Integrated Care, 2011, 11, .	0.1	0
98	Telehealth: supporting self-management of health and community based care. International Journal of Integrated Care, 2011, 11, .	0.1	0
99	An intervention mechanism for assistive living in smart homes. Journal of Ambient Intelligence and Smart Environments, 2010, 2, 233-252.	0.8	9
100	Towards developing effective Continence Management through wetness alert diaper: Experiences, lessons learned, challenges and future directions. , 2010, , .		8
101	Towards sustainable business models from healthcare technology research. International Journal of Computers in Healthcare, 2010, 1, 20.	0.5	2
102	Self-Organized Data Ecologies for Pervasive Situation-Aware Services: The Knowledge Networks Approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 789-802.	3.4	10
103	ICT Interface Design for Ageing People and People with Dementia. Advanced Information and Knowledge Processing, 2010, , 165-188.	0.2	5
104	Contrasting levels of accuracy in command interaction sequences for a domestic brain-computer interface using SSVEP. , 2010, , .		12
105	Assessing the accessibility of a domestic Brain Computer Interface and the implications for future design choices. , 2010, , .		1
106	Technical development and clinical evaluation of intelligent continence management system at nursing home. , 2010, , .		1
107	Designing & evaluating a cognitive prosthetic for people with mild dementia. , 2010, , .		28
108	A user centred approach for developing Brain-Computer Interfaces. , 2010, , .		11

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109	Brain Computer Interfaces for inclusion. , 2010, , .		6
110	Towards self-managing systems inspired by economic organizations. , 2010, , .		2
111	Towards Intelligent and Self-Evolving Network Infrastructures for Energy Management. , 2010, , .		9
112	Monitoring and analysis of sleep pattern for people with early dementia. , 2010, , .		19
113	Supporting People with Dementia Using Pervasive Healthcare Technologies. Advanced Information and Knowledge Processing, 2010, , 3-14.	0.2	12
114	State of the Art in Electronic Assistive Technologies for People with Dementia. Advanced Information and Knowledge Processing, 2010, , 23-35.	0.2	5
115	Review of ICT-Based Services for Identified Unmet Needs in People with Dementia. Advanced Information and Knowledge Processing, 2010, , 37-61.	0.2	18
116	Ambient Interface Design (AID) for the Ergonomically Challenged. International Journal of Ambient Computing and Intelligence, 2010, 2, 57-64.	0.8	4
117	The Role of Context-Aware Computing in Support of People with Dementia. Advanced Information and Knowledge Processing, 2010, , 131-143.	0.2	3
118	Transferring research and innovation Living Lab (TRAIL): Experience of a living lab. Gerontechnology, 2010, 9, .	0.0	1
119	Holistic night-time care. Gerontechnology, 2010, 9, .	0.0	0
120	Semantic Smart Homes: Towards Knowledge Rich Assisted Living Environments. Studies in Computational Intelligence, 2009, , 279-296.	0.7	52
121	Knowledge networks for pervasive services. , 2009, , .		5
122	A review of the role of assistive technology for people with dementia in the hours of darkness. Technology and Health Care, 2009, 17, 281-304.	0.5	58
123	Evidential fusion of sensor data for activity recognition in smart homes. Pervasive and Mobile Computing, 2009, 5, 236-252.	2.1	189
124	A user driven approach to develop a cognitive prosthetic to address the unmet needs of people with mild dementia. Pervasive and Mobile Computing, 2009, 5, 253-267.	2.1	56
125	A computational intelligence method for traversing dynamically constructed networks of knowledge. Telecommunication Systems, 2009, 40, 27-37.	1.6	1
126	Autonomic Re-configuration of Pervasive Supervision Services. , 2009, , .		2

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127	An infrastructure for developing self-organising services. International Journal of Adaptive and Innovative Systems, 2009, 1, 88.	0.1	1
128	Experiences in the development of a Smart Lab. International Journal of Biomedical Engineering and Technology, 2009, 2, 319.	0.2	66
129	Uncertain Information Management for ADL Monitoring in Smart Homes. Studies in Computational Intelligence, 2009, , 315-332.	0.7	6
130	Ambient Communication Experience (ACE). International Journal of Ambient Computing and Intelligence, 2009, 1, 53-58.	0.8	0
131	Decision Support for Alzheimer's Patients in Smart Homes. , 2008, , .		18
132	Development of a cell phone-based video streaming system for persons with early stage Alzheimer's disease. , 2008, 2008, 5330-3.		15
133	Smart wireless continence management system for elderly with dementia. , 2008, , .		2
134	Smart Wireless Continence Management System for Persons with Dementia. Telemedicine Journal and E-Health, 2008, 14, 825-832.	1.6	33
135	HomeADL for adaptive ADL monitoring within smart homes. , 2008, 2008, 3324-7.		5
136	The development of personalised cognitive prosthetics. , 2008, 2008, 787-90.		11
137	Using Event Calculus for Behaviour Reasoning and Assistance in a Smart Home. Lecture Notes in Computer Science, 2008, , 81-89.	1.0	26
138	Evaluation of Mobile and Home Based Cognitive Prosthetics. Lecture Notes in Computer Science, 2008, , 18-25.	1.0	3
139	Design of a Smart Continence Management System Based on Initial User Requirement Assessment. Lecture Notes in Computer Science, 2008, , 62-72.	1.0	7
140	Autonomic Computing. , 2008, , 66-71.		0
141	Autonomous Querying for Knowledge Networks. Lecture Notes in Computer Science, 2008, , 249-263.	1.0	0
142	Assessment of the Impact of Sensor Failure in the Recognition of Activities of Daily Living. Lecture Notes in Computer Science, 2008, , 136-144.	1.0	5
143	Self-organizing knowledge networks for pervasive situation-aware services. , 2007, , .		2
144	HomeCI - A visual editor for healthcare professionals in the design of home based care. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2787-90.	0.5	14

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145	Autonomic supervision of stigmergic self-organisation for distributed information retrieval. , 2007, , .		2
146	The next generation of mobile medication management solutions. International Journal of Electronic Healthcare, 2007, 3, 7.	0.2	18
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	Review of ICT-based services for identified unmet needs in people with dementia. Ageing Research Reviews, 2007, 6, 223-246.	5.0	241
150	HomeRuleML - A Model for the Exchange of Decision Support Rules Within Smart Environments. , 2007, , .		6
151	Healthcare Systems and Other Applications. IEEE Pervasive Computing, 2007, 6, 59-63.	1.1	24
152	Utilizing Stigmergy in Support of Autonomic Principles. , 2007, , .		1
153	Using context awareness within the "Smart home"™ environment to support social care for adults with dementia. Technology and Disability, 2007, 19, 143-152.	0.3	8
154	homeML " An Open Standard for the Exchange of Data Within Smart Environments. , 2007, , 121-129.		33
155	Home Based Assistive Technologies for People with Mild Dementia. , 2007, , 63-69.		31
156	Autonomic Supervision of Stigmergic Self-Organisation for Distributed Information Retrieval. , 2007, , .		1
157	Introducing a light-weight autonomic network middleware based on stigmergic mechanisms. Annales Des Telecommunications/Annals of Telecommunications, 2006, 61, 1005-1016.	1.6	0
158	Towards Pervasive Supervision for Autonomic Systems. , 2006, , .		6
159	Knowledge Networks. Lecture Notes in Computer Science, 2006, , 99-114.	1.0	12
160	Dynamic and Contextualised Behavioural Knowledge in Autonomic Communications. Lecture Notes in Computer Science, 2005, , 217-228.	1.0	6
161	On the Deployment of Web Usage Mining. Lecture Notes in Computer Science, 2004, , 23-42.	1.0	5
162	User-Driven Navigation Pattern Discovery from Internet Data. Lecture Notes in Computer Science, 2000, , 74-91.	1.0	26

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163	Personalization on the Net using Web mining: introduction. Communications of the ACM, 2000, 43, 122-125.	3.3	265
164	Discovering Internet marketing intelligence through online analytical web usage mining. SIGMOD Record, 1998, 27, 54-61.	0.7	209
165	Data-Driven Marketing. Electronic Markets, 1998, 8, 32-35.	4.4	14
166	Knowledge-based assistance for contract compliance [power stations]. IEEE Intelligent Systems, 1997, 12, 58-64.	1.1	2
167	A hybrid knowledge-based system for strategic purchasing. Expert Systems With Applications, 1997, 12, 497-512.	4.4	17
168	Integration of case based retrieval with a relational database system in Aircraft Technical Support. Lecture Notes in Computer Science, 1995, , 1-10.	1.0	4
169	Data mining and XML: current and future issues. , 0, , .		13
170	Using context prediction for self-management in ubiquitous computing environments. , 0, , .		2
171	Aesthetically-Enhanced Visual Analytics Platform to Explore Patient Metadata. , 0, , .		0
172	The Application of User Event Log Data for Mental Health and Wellbeing Analysis. , 0, , .		6
173	Ambient Communication Experience (ACE), Information Interaction in Design Space. , 0, , 139-146.		0