Findings from observational studies of collaborative wo

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#	Article	IF	CITATIONS
1	Specifying groupware requirements from direct experience., 0,,.		1
2	An observational methodology for studying group design activity. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 1991, 2, 209-219.	1.2	33
3	Human interaction with intelligent systems. ACM SIGART Bulletin, 1991, 2, 39-50.	0.5	18
4	Communication and information retrieval with a pen-based meeting support tool., 1992,,.		38
5	GROUPKIT., 1992,,.		117
6	Issues and experiences designing and implementing two group drawing tools. , 1992, , .		60
7	Why do users like video?. Computer Supported Cooperative Work, 1992, 1, 163-196.	1.9	134
8	Survey of collaborative drawing support tools. Computer Supported Cooperative Work, 1992, 1, 197-228.	1.9	10
9	Human and technical factors of distributed group drawing tools. Interacting With Computers, 1992, 4, 364-392.	1.0	40
10	Gesturing through cursors: implementing multiple pointers in group support systems. , 0, , .		15
11	Gesturing with shared drawing tools. , 1993, , .		7
12	What video can and can't do for collaboration. , 1993, , .		68
13	Text-Based On-Line Conferencing: A Conceptual and Empirical Analysis Using a Minimal Prototype. Human-Computer Interaction, 1993, 8, 147-183.	3.1	14
14	Implementing Gesturing with Cursors in Group Support Systems. Journal of Management Information Systems, 1993, 10, 43-61.	2.1	35
15	Usability assessment of interactive multimedia medical workstation. , 0, , .		2
16	Informal workplace communication. , 1994, , .		192
17	What video can and cannot do for collaboration: A case study. Multimedia Systems, 1994, 2, 63-73.	3.0	143
18	Alleviating convergence problems in Group Support Systems. Computer Supported Cooperative Work, 1994, 3, 1-28.	1.9	8

#	Article	IF	Citations
19	Comparing collaborative drawing tools and whiteboards: An analysis of the group process. Computer Supported Cooperative Work, 1994, 4, 51-71.	1.9	3
20	Argumentation-based design rationale: what use at what cost?. International Journal of Human Computer Studies, 1994, 40, 603-652.	3.7	184
21	ISOP: a computerized group-based intelligent problem solving technique. , 1994, , .		1
22	Architectural support for cooperative multiuser interfaces. Computer, 1994, 27, 37-46.	1.2	43
23	Real time groupware as a distributed system. , 1994, , .		260
24	Multimedia medical conferencing: design and experience in the BERMED project. , 1994, , .		5
25	Supporting cooperative medicine: the Bermed Project. IEEE MultiMedia, 1994, 1, 44-53.	1.5	28
26	Rethinking video as a technology for interpersonal communications: theory and design implications. International Journal of Human Computer Studies, 1995, 42, 501-529.	3.7	134
27	Nature of Rapid Proof-of-concept Prototyping. Journal of Engineering Design, 1995, 6, 3-16.	1.1	21
28	Opinion: Educational Research and Computer Supported Coâ€operative Learning. Innovations in Education and Teaching International, 1995, 32, 139-146.	0.2	4
30	A method for analyzing team design activity. , 1995, , .		0
31	Group-View Displays for Enhancing Crew Performance. Proceedings of the Human Factors and Ergonomics Society, 1995, 39, 1199-1203.	0.2	1
32	Interaction Analysis: Foundations and Practice. Journal of the Learning Sciences, 1995, 4, 39-103.	2.0	1,746
33	An Observational Methodology for Studying Group Design Activity. , 1996, , 52-70.		9
34	Research Trend of Next Generation User Interface. Journal of Japan Society for Fuzzy Theory and Systems, 1996, 8, 216-228.	0.0	4
35	Concurrent engineering tools: are the human issues being ignored?. IEEE Transactions on Engineering Management, 1996, 43, 189-201.	2.4	42
36	Inter-personal awareness and synchronization: assessing the value of communication technologies. International Journal of Human Computer Studies, 1996, 44, 849-873.	3.7	21
37	Collaborative version control in an agent-based hypertext environment. Information Systems, 1996, 21, 127-145.	2.4	16

#	Article	IF	CITATIONS
38	A usability study of workspace awareness widgets. , 1996, , .		7
39	Semantic telepointers for groupware. , 0, , .		44
40	Building real-time groupware with GroupKit, a groupware toolkit. ACM Transactions on Computer-Human Interaction, 1996, 3, 66-106.	4.6	354
41	Workspace awareness for groupware. , 1996, , .		114
42	Hypermedia structures and the division of labor in meeting room collaboration. , $1996, \ldots$		18
43	A usability study of awareness widgets in a shared workspace groupware system. , 1996, , .		149
44	CEVA., 1997,,.		12
45	Graphical Argumentation and Design Cognition. Human-Computer Interaction, 1997, 12, 267-300.	3.1	95
46	TeleNotes. ACM Transactions on Computer-Human Interaction, 1997, 4, 137-168.	4.6	62
47	Field work. Interactions, 1997, 4, 25-30.	0.8	18
48	Collaborative visualization and modeling., 0,,.		4
49	Hypermedia Use in Group Work: Changing the Product, Process, and Strategy. Computer Supported Cooperative Work, 1997, 6, 327-368.	1.9	4
50	Multimodal messages: the pen and voice opportunity. Interacting With Computers, 1997, 9, 1-25.	1.0	11
51	Learning from design histories in concurrent engineering. Computers in Industry, 1997, 33, 83-90.	5 . 7	2
52	Adding agility to CAD: Integrating product data management tools into an organization. Human Factors and Ergonomics in Manufacturing, 1997, 7, 21-35.	1.4	2
53	The design and evolution of TurboTurtle, a collaborative microworld for exploring Newtonian physics. International Journal of Human Computer Studies, 1998, 48, 777-801.	3.7	5
54	Some advantages of video conferencing over high-quality audio conferencing: fluency and awareness of attentional focus. International Journal of Human Computer Studies, 1998, 49, 21-58.	3.7	116
55	Side-by-side collaboration: a case study. International Journal of Human Computer Studies, 1998, 49, 201-222.	3.7	32

#	ARTICLE	IF	Citations
56	Experimental observation of iteration in engineering design. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 1998, 10, 107-117.	1,2	56
57	Expertise, collaboration and bandwidth. , 1998, , .		21
58	Design for individuals, design for groups. , 1998, , .		222
59	Effects of awareness support on groupware usability. , 1998, , .		100
60	Cleogo: collaborative and multi-metaphor programming for kids. , 0, , .		4
61	An Observational Study of Design Team Process: A Comparison of Student and Professional Engineers. Journal of Mechanical Design, Transactions of the ASME, 1998, 120, 636-642.	1.7	31
62	The effects of workspace awareness support on the usability of real-time distributed groupware. ACM Transactions on Computer-Human Interaction, 1999, 6, 243-281.	4.6	177
63	Cooperative Work and Shared Visual Context: An Empirical Study of Comprehension Problems in Side-by-Side and Remote Help Dialogues. Human-Computer Interaction, 1999, 14, 283-315.	3.1	60
64	Realtime Conferencing in GIS. Transactions in GIS, 1999, 3, 23-30.	1.0	19
65	Meetings of the Board: The Impact of Scheduling Medium on Long Term Group Coordination in Software Development. Computer Supported Cooperative Work, 1999, 8, 175-205.	1.9	48
66	PDAs and shared public displays: Making personal information public, and public information personal. Personal and Ubiquitous Computing, 1999, 3, 54-64.	0.6	115
67	Editorial: 30th Anniversary Issue. International Journal of Human Computer Studies, 1999, 51, 119-124.	3.7	0
68	The influence of power relations and social goals on children's collaborative interactions while composing on computer. Early Childhood Research Quarterly, 1999, 14, 197-228.	1.6	17
69	A review of the groupware literature: Theories, methodologies, and a research agenda Canadian Psychology, 1999, 40, 265-271.	1.4	20
70	An Investigation of Groupware Support for Collaborative Awareness Through Distortion-Oriented Views. International Journal of Human-Computer Interaction, 1999, 11, 231-255.	3.3	8
71	TELEMEDICINE. International Journal of Technology Assessment in Health Care, 1999, 15, 220-235.	0.2	21
72	Cognitive, social, and environmental attributes of distributed engineering collaboration: A review and proposed model of collaboration. Human Factors and Ergonomics in Manufacturing, 2000, 10, 369-393.	1.4	41
73	Designing collaborative environments for strategic knowledge in design. Knowledge-Based Systems, 2000, 13, 429-438.	4.0	28

#	ARTICLE	IF	CITATIONS
74	Supporting Communication in Rehabilitation Engineering Teams. Telemedicine and E-Health, 2000, 6, 225-236.	1.3	2
75	C-SLANT: an asynchronous communications tool to support distributed work in the National Airspace System. , 0, , .		0
76	Lessons learned from employing multiple perspectives in a collaborative virtual environment for visualizing scientific data. , 2000, , .		46
77	Talking in circles. , 2000, , .		21
78	Supporting collaborative interpretation in distributed Groupware. , 2000, , .		32
79	The mechanics of collaboration: developing low cost usability evaluation methods for shared workspaces. , 0, , .		80
81	The learning organization information system (LOIS): looking for the next generation. Information Systems Journal, 2001, 11, 23-41.	4.1	17
82	The Communication Bottleneck in Knitwear Design: Analysis and Computing Solutions. Computer Supported Cooperative Work, 2001, 10, 29-74.	1.9	38
83	Heuristic Evaluation of Groupware Based on the Mechanics of Collaboration. Lecture Notes in Computer Science, 2001, , 123-139.	1.0	76
85	Aerial drawing interface for supporting an actual communication in face-to-face situation. , 0, , .		1
86	Functions of sketching in design idea generation meetings. , 2002, , .		54
87	Multilevel design and role play. , 2002, , .		20
88	Empirical development of a heuristic evaluation methodology for shared workspace groupware. , 2002, , .		88
89	Improving interpretation of remote gestures with telepointer traces. , 2002, , .		58
90	A Look Is Worth a Thousand Words: Full Gaze Awareness in Video-Mediated Conversation. Discourse Processes, 2002, 33, 257-278.	1.1	64
91	Workspace awareness in relaxed WYSIWIS systems. , 0, , .		0
92	Technology on social issues of videoconferencing on the Internet: a survey. Journal of Network and Computer Applications, 2002, 25, 37-56.	5.8	4
93	A Descriptive Framework of Workspace Awareness for Real-Time Groupware. Computer Supported Cooperative Work, 2002, 11, 411-446.	1.9	797

#	Article	IF	Citations
94	Against Ambiguity. Computer Supported Cooperative Work, 2003, 12, 153-183.	1.9	70
95	Telling tales: understanding the role of narrative in the design of taxonomic software. Design Studies, 2003, 24, 537-547.	1.9	7
96	Notification and awareness: synchronizing task-oriented collaborative activity. International Journal of Human Computer Studies, 2003, 58, 605-632.	3.7	283
97	Understanding children's collaborative interactions in shared environments. Journal of Computer Assisted Learning, 2003, 19, 220-228.	3.3	91
98	Distributed coordination space: Toward a theory of distributed team process and performance. Theoretical Issues in Ergonomics Science, 2003, 4, 340-364.	1.0	138
99	The development of a method to inform CMC design for visual communication. , 0, , .		0
100	Using cursor prediction to smooth telepointer jitter. , 2003, , .		26
101	Effects of head-mounted and scene-oriented video systems on remote collaboration on physical tasks. , 2003, , .		154
102	A study of collaboration in software design. , 0, , .		16
103	How people use orientation on tables. , 2003, , .		100
104	Gestural communication over video stream., 2003,,.		71
105	Task analysis for groupware usability evaluation. ACM Transactions on Computer-Human Interaction, 2003, 10, 281-311.	4.6	232
106	Ceci n'est pas un Objet? Talking About Objects in E-mail. Human-Computer Interaction, 2003, 18, 85-110.	3.1	30
107	Things to Talk About When Talking About Things. Human-Computer Interaction, 2003, 18, 149-170.	3.1	70
108	Visual Information as a Conversational Resource in Collaborative Physical Tasks. Human-Computer Interaction, 2003, 18, 13-49.	3.1	294
110	Viste: Visualization For Technology Education, An Outreach Program For Engineering Graphics Education., 2004, , 9.1406.1.		2
111	Exploring the effects of group size and table size on interactions with tabletop shared-display groupware. , 2004, , .		123
112	High-performance telepointers. , 2004, , .		24

#	Article	IF	CITATIONS
113	Action as language in a shared visual space. , 2004, , .		82
114	Release, relocate, reorient, resize. , 2004, , .		44
115	Individual audio channels with single display groupware. , 2004, , .		38
116	Avoiding interference. , 2004, , .		59
117	Territoriality in collaborative tabletop workspaces. , 2004, , .		386
118	Interaction in collaborative computer supported diagram development. Computers in Human Behavior, 2004, 20, 289-310.	5.1	7
119	On-line question-posing and peer-assessment as means for web-based knowledge sharing in learning. International Journal of Human Computer Studies, 2004, 61, 84-103.	3.7	134
120	Roles of Orientation in Tabletop Collaboration: Comprehension, Coordination and Communication. Computer Supported Cooperative Work, 2004, 13, 501-537.	1.9	98
121	Gestures Over Video Streams to Support Remote Collaboration on Physical Tasks. Human-Computer Interaction, 2004, 19, 273-309.	3.1	250
122	DESIGN IN COLLABORATION: EXISTING TRENDS AND APPLICATION TO THE CASE OF CONFLICT HANDLING WITH CO2MED SOFTWARE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 31-36.	0.4	0
123	Speaker-centredness and participatory listening in pre-expert engineering design teams. CoDesign, 2005, 1, 39-60.	1.4	8
124	Virtual workgroups in offshore systems development. Information and Software Technology, 2005, 47, 305-318.	3.0	52
125	How sketching can affect the idea generation process in design group meetings. Design Studies, 2005, 26, 101-122.	1.9	150
126	Artifacts and collaborative work in healthcare: methodological, theoretical, and technological implications of the tangible. Journal of Biomedical Informatics, 2005, 38, 26-33.	2.5	139
127	The Software Design Board: A Tool Supporting Workstyle Transitions in Collaborative Software Design. Lecture Notes in Computer Science, 2005, , 363-382.	1.0	7
128	Fluid integration of rotation and translation. , 2005, , .		101
129	Effects of task properties, partner actions, and message content on eye gaze patterns in a collaborative task., 2005,,.		23
130	The proximity factor., 2005, , .		37

#	Article	IF	CITATIONS
131	Echology., 2005,,.		5
132	An environment for collaborative iteration planning. , 0, , .		5
133	The effect of a telepointer on student performance and preference. Computers and Education, 2005, 44, 35-51.	5.1	17
134	Integrating 2D and 3D views for spatial collaboration. , 2005, , .		13
135	Using an experimental study to develop group awareness support for real-time distributed collaborative writing. Information and Software Technology, 2006, 48, 1006-1024.	3.0	18
136	Supporting Distributed Spatial Collaboration: An Investigation of Navigation and Radar View Techniques. GeoInformatica, 2006, 10, 123-158.	2.0	6
137	Collaborative design: Managing task interdependencies and multiple perspectives. Interacting With Computers, 2006, 18, 1-20.	1.0	104
138	Enabling interaction with single user applications through speech and gestures on a multi-user tabletop., 2006,,.		55
139	MapTable., 2006,,.		1
140	Towards computer-supported face-to-face knowledge sharing. , 2006, , .		2
141	Documenting design decision rationale to improve individual and team design decision making. , 2006, , .		24
142	Comparing remote gesture technologies for supporting collaborative physical tasks. , 2006, , .		96
143	Human-centered collaborative interaction. , 2006, , .		8
144	Collaborative coupling over tabletop displays. , 2006, , .		193
145	Improving interfaces for managing applications in multiple-device environments. , 2006, , .		15
146	Improving scalability and awareness in iconic interfaces for multiple-device environments. , 2006, , .		4
147	Rotation and Translation Mechanisms for Tabletop Interaction. , 0, , .		68
148	Multimodal multiplayer tabletop gaming. Computers in Entertainment, 2007, 5, 12.	1.2	59

#	Article	IF	Citations
149	FASTDash., 2007,,.		197
150	Encouraging contribution to shared sketches in brainstorming meetings. , 2007, , .		13
151	How pairs interact over a multimodal digital table. , 2007, , .		21
152	Designing for collaborative creative problem solving. , 2007, , .		109
153	Affordances for manipulation of physical versus digital media on interactive surfaces., 2007,,.		89
154	Implementing three-party desktop videoconferencing. , 2007, , .		4
155	Conversational grounding and visual access in collaborative design. CoDesign, 2007, 3, 111-122.	1.4	6
156	Effects of Room-sized Sharing on Remote Collaboration on Physical Tasks. IPSJ Digital Courier, 2007, 3, 788-799.	0.3	6
158	Distributed Tabletops: Supporting Remote and Mixed-Presence Tabletop Collaboration. , 2007, , .		23
159	The Conversational Organisation of Drawing. , 2007, , .		2
160	Going Deeper: a Taxonomy of 3D on the Tabletop., 2007,,.		33
161	The cooperative shift change: an illustration using air traffic control. Theoretical Issues in Ergonomics Science, 2007, 8, 213-232.	1.0	14
162	Living with a Tabletop: Analysis and Observations of Long Term Office Use of a Multi-Touch Table. , 2007, , .		52
163	Externalizing tacit overview knowledge: A model-based approach to supporting design teams. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2007, 21, 227-242.	0.7	33
164	C-Slate: A Multi-Touch and Object Recognition System for Remote Collaboration using Horizontal Surfaces. , 2007, , .		34
165	Toolkits and interface creativity. Multimedia Tools and Applications, 2007, 32, 139-159.	2.6	70
166	Social enjoyment with electronic photograph displays: Awareness and control. International Journal of Human Computer Studies, 2008, 66, 587-604.	3.7	29
167	Physical and Digital Artifact-Mediated Coordination in Building Design. Computer Supported Cooperative Work, 2008, 17, 311-351.	1.9	34

#	Article	IF	CITATIONS
168	Multimodal support to group dynamics. Personal and Ubiquitous Computing, 2008, 12, 181-195.	1.9	48
169	Evaluating teamwork support in tabletop groupware applications using collaboration usability analysis. Personal and Ubiquitous Computing, 2008, 12, 237-254.	1.9	23
170	The impact of tangible user interfaces on spatial cognition during collaborative design. Design Studies, 2008, 29, 222-253.	1.9	105
171	Empirical evaluation of distributed pair programming. International Journal of Human Computer Studies, 2008, 66, 530-544.	3.7	45
172	Evaluating Information Visualizations. Lecture Notes in Computer Science, 2008, , 19-45.	1.0	222
173	Contextual design considerations for co-located, collaborative tables. , 2008, , .		14
174	Predicting Visual Focus of Attention From Intention in Remote Collaborative Tasks. IEEE Transactions on Multimedia, 2008, 10, 1034-1045.	5.2	15
175	An exploratory study of visual information analysis. , 2008, , .		82
176	Multi-user tangible interfaces for effective decision-making in disaster management. Environmental Science and Engineering, 2008, , 243-266.	0.1	9
177	Collaboration and interference. , 2008, , .		150
178	Grounded evaluation of information visualizations. , 2008, , .		74
179	Qualitative analysis of visualization. , 2008, , .		25
180	Multimodal Interfaces. , 2008, , 391-444.		4
181	User-defined gestures for surface computing. , 2009, , .		888
182	Experiential role of artefacts in cooperative design. , 2009, , .		16
183	WebSurface., 2009, , .		30
184	Territorial coordination and workspace awareness in remote tabletop collaboration., 2009, , .		36
185	Grounded design: Design patterns as the link between theory and practice. Computers in Human Behavior, 2009, 25, 1056-1066.	5.1	9

#	ARTICLE	IF	CITATIONS
186	Investigating teamwork and taskwork in single- and multi-display groupware systems. Personal and Ubiquitous Computing, 2009, 13, 569-581.	1.9	61
187	An annotation model to reduce ambiguity in design communication. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2009, 20, 171-184.	1.2	17
188	Analyzing Multimodal Communication around a Shared Tabletop Display. , 2009, , 283-302.		7
189	An interpretation of the results of the analysis of pair programming during novices integration in a team. , 2009, , .		44
190	Exploring the requirements of tabletop interfaces for education. International Journal of Learning Technology, 2010, 5, 42.	0.2	11
191	A methodology for sketch analysis to support maintaining the design intent in virtual prototyping. Journal of Design Research, 2010, 8, 189.	0.1	O
192	Multimodal support for social dynamics in co-located meetings. Personal and Ubiquitous Computing, 2010, 14, 703-714.	1.9	33
193	Division of labour and sharing of knowledge for synchronous collaborative information retrieval. Information Processing and Management, 2010, 46, 762-772.	5.4	31
194	Supporting remote collaborative problemâ€solving. Applied Cognitive Psychology, 2010, 24, 1297-1323.	0.9	4
195	Development of a tool for building shared representations among industrial designers and engineering designers. CoDesign, 2010, 6, 139-166.	1.4	20
196	Hugin., 2010,,.		38
197	Collaboard., 2010,,.		12
198	It's just a toolbar!. , 2010, , .		32
199	VisTACO., 2010,,.		24
200	TouchBridge., 2010,,.		0
201	Three's company., 2010,,.		66
202	The NiCE Discussion Room. , 2010, , .		77
203	Where are you pointing?., 2010,,.		36

#	Article	IF	CITATIONS
204	Touching the depths., 2010,,.		15
205	Coordination and Awareness in Remote Tabletop Collaboration. Human-computer Interaction Series, 2010, , 407-434.	0.4	2
207	CollaBoard: A Novel Interactive Electronic Whiteboard for Remote Collaboration with People on Content. , 2010, , .		20
208	Cooperative Work and Coordinative Practices. Computer Supported Cooperative Work / Series Ed By: Dan Diaper and Colston Sanger, 2011, , .	1.1	97
209	Understanding how novices are integrated in a team analysing their tool usage. , $2011, , .$		8
210	Dancing with ambiguity: Causality behavior, design thinking, and triple-loop-learning. Information, Knowledge, Systems Management, 2011, 10, 151-173.	0.4	73
211	The Role of Nonverbal and Verbal Communication in a Multimedia Informed Consent Process. Applied Clinical Informatics, 2011, 02, 240-249.	0.8	6
212	A Taxonomic Classification of Visual Design Representations Used by Industrial Designers and Engineering Designers. Design Journal, 2011, 14, 64-91.	0.5	78
213	Visual Thinking In Action: Visualizations As Used On Whiteboards. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2508-2517.	2.9	63
214	An interactive whiteboard for immersive telecollaboration. Visual Computer, 2011, 27, 311-320.	2.5	7
215	Building common ground in global teamwork through re-representation. Al and Society, 2011, 26, 233-245.	3.1	6
216	Exploring the usefulness of awareness widgets in online shared workspaces: A preliminary case study. Proceedings of the American Society for Information Science and Technology, 2011, 48, 1-4.	0.2	2
217	Making sense of "things"., 2011,,.		5
218	Adaptive personal territories for co-located tabletop interaction in a museum setting. , $2011, \ldots$		24
219	Supporting fluid tabletop collaboration across distances., 2011,,.		14
220	Designers and Collaborative Virtual Environments. , 2011, , 3-15.		5
221	User-defined motion gestures for mobile interaction., 2011,,.		314
222	Analyzing Distributed Whiteboard Interactions. , 2011, , .		4

#	Article	IF	Citations
223	The role of gesture in designing. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2011, 25, 213-220.	0.7	18
224	Interactive surface technology for a mobile command centre. , 2011, , .		4
225	Sketching across design domains: Roles and formalities. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2012, 26, 245-266.	0.7	20
227	COLLABORATECOM SPECIAL ISSUE ANALYZING DISTRIBUTED WHITEBOARD INTERACTIONS. International Journal of Cooperative Information Systems, 2012, 21, 199-220.	0.6	1
228	Professional perspectives on collaborative design work. CoDesign, 2012, 8, 215-230.	1.4	27
229	A direct touch table-top display as a multi-user information kiosk: Comparing the usability of a single display groupware either by a single user or people cooperating as a group. Interacting With Computers, 2012, 24, 423-437.	1.0	5
230	Tracing ideologies of learning in group talk and their impediments to collaboration. Linguistics and Education, 2012, 23, 350-360.	0.5	10
231	Selecting the Best Solvers: Toward Community Based Crowdsourcing for Disaster Management. , 2012,		7
232	Structuring dimensions for collaborative systems evaluation. ACM Computing Surveys, 2012, 44, 1-28.	16.1	52
233	Comparing Horizontal and Vertical Surfaces for a Collaborative Design Task. Advances in Human-Computer Interaction, 2012, 2012, 1-10.	1.8	12
234	Towards a taxonomy of factors implicated in children-elderly interaction when using entertainment technology., 2012,,.		4
235	Be-Gehbare Interaktion: Dynamische PersĶnliche Bereiche fýr Interaktive Tische. I-com, 2012, 11, 12-19.	0.9	2
236	Creative practices in the design studio culture: collaboration and communication. Cognition, Technology and Work, 2013, 15, 415-443.	1.7	58
237	What Distributed Software Teams Need to Know and When: An Empirical Study. , 2013, , .		4
238	Sometimes when we touch. , 2013, , .		28
239	Three gestures, the context does the rest some ideas to simplify interactions. , 2013, , .		0
240	Augmenting tandem language learning with the TandemTable. , 2013, , .		1
241	Involving Users to Improve the Collaborative Logical Framework. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	14

#	Article	IF	CITATIONS
242	Computer-Mediated Communication. , 2014, , .		0
243	Paper vs. tablets. , 2014, , .		18
244	Support for deictic pointing in CVEs. , 2014, , .		27
245	The design of interfaces for multi-robot path planning and control. , 2014, , .		6
246	Mobile Modeling Tool Based on the Horus Method. , 2014, , .		1
247	Up close and personal. ACM Transactions on Computer-Human Interaction, 2014, 21, 1-34.	4.6	73
248	Gesture analysis in a case study with a tangible user interface for collaborative problem solving. Journal on Multimodal User Interfaces, 2014, 8, 305-317.	2.0	10
249	Effects of Communication Lag in Long Duration Space Flight Missions. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 6-10.	0.2	6
250	2. Designing Blended Spaces for Collaboration. , 2015, , 18-39.		3
251	A Classification of Human-to-Human Communication during the Use of Immersive Teleoperation Interfaces. , 2015, , .		9
252	Sketching and notation creation with FlexiSketch Team: Evaluating a new means for collaborative requirements elicitation. , $2015, \dots$		12
253	The shared online whiteboard: An assistance tool to synchronous collaborative design. Revue Europeenne De Psychologie Appliquee, 2015, 65, 253-265.	0.4	7
254	Collaborative process modeling with tablets and touch tables - A controlled experiment. , 2015, , .		1
255	Tracking Deictic Gestures over Large Interactive Surfaces. Computer Supported Cooperative Work, 2015, 24, 109-119.	1.9	3
256	Blended Spaces for Collaboration. Computer Supported Cooperative Work, 2015, 24, 223-249.	1.9	19
257	ShowMe., 2015, , .		53
258	Design method for multi-user workstations utilizing anthropometry and preference data. Applied Ergonomics, 2015, 46, 60-66.	1.7	18
259	Material knowledge in collaborative designing and making - A case of wearable sea creatures. FormAkademisk, 2016, 9, .	0.1	5

#	Article	IF	Citations
261	Effects of Workspace Awareness and Territoriality in Environments with Large, Shared Displays. , 2016, , .		3
262	Gestures by Children and Adults on Touch Tables and Touch Walls in a Public Science Center. , 2016, , .		16
263	Visualising professional vision interactions in design reviews. CoDesign, 2016, 12, 73-92.	1.4	7
264	Coupling Interactions and Performance: Predicting Team Performance from Thin Slices of Conflict. ACM Transactions on Computer-Human Interaction, 2016, 23, 1-32.	4.6	29
265	Prototyping with your hands: the many roles of gesture in the communication of design concepts. Journal of Engineering Design, 2016, 27, 118-145.	1.1	32
266	Implications of We-Awareness to the Design of Distributed Groupware Tools. Computer Supported Cooperative Work, 2016, 25, 279-293.	1.9	15
267	A two-sided collaborative transparent display supporting workspace awareness. International Journal of Human Computer Studies, 2017, 101, 23-44.	3.7	16
268	Collaboration And Awareness Amongst Flight Attendants. , 2017, , .		7
269	Understanding Concept Maps., 2017,,.		5
270	A more reflective form of joint problem solving. International Journal of Computer-Supported Collaborative Learning, 2017, 12, 9-33.	1.9	23
271	AlphaRead., 2017,,.		16
272	COMMIT., 2017,,.		3
273	Collaboration, Awareness, and Communication in Real-Life Escape Rooms., 2017,,.		45
274	Why Players use Pings and Annotations in Dota 2., 2017,,.		18
275	Escaping Together., 2017,,.		13
276	Design Whodunit: The Relationship Between Individual Characteristics and Interaction Behaviors in Design Concept Generation. , 2017, , .		6
277	TUIOFX. Proceedings of the ACM on Human-Computer Interaction, 2017, 1, 1-18.	2.5	0
278	Hybrid Use of Asynchronous and Synchronous Interaction for Collaborative Creation., 2017,,.		1

#	Article	IF	CITATIONS
279	Tracking Algorithms for Cooperative Telemaintenance Repair Operations * *funded by the Bavarian Ministry of Economic Affairs, Infrastructure, Transport and Technology in its R&D program â€~Bayern digital' IFAC-PapersOnLine, 2017, 50, 331-336.	0.5	2
280	Representation in Engineering Practice: A Case Study of Framing in a Student Design Group. Technical Communication Quarterly, 2017, 26, 361-378.	1.0	3
281	Understanding Collaborative Decision Making Around a Large-Scale Interactive Tabletop. Proceedings of the ACM on Human-Computer Interaction, 2017, 1, 1-21.	2.5	4
282	Development of Learning Modules for Sustainable Life Cycle Product Design: A Constructionist Approach., 0,,.		2
283	Using Group Drawings Activities to Facilitate the Understanding of the Systemic Aspects of Projects. International Journal of Instruction, 2017, 10, 3-22.	0.6	3
284	Collocated Use of Imaging Systems in Coordinated Surgical Practice. Proceedings of the ACM on Human-Computer Interaction, 2017, 1 , 1 -17.	2.5	11
285	Line by line, part by part: collaborative sketching for designing. International Journal of Technology and Design Education, 2018, 28, 471-494.	1.7	6
286	The Effect of Augmented and Virtual Reality Interfaces in the Creative Design Process. International Journal of Virtual and Augmented Reality, 2018, 2, 1-13.	0.4	7
287	Mine, Yours, Ours., 2018,,.		7
288	Comparing Different Augmented Reality Support Applications for Cooperative Repair of an Industrial Robot. , 2018, , .		17
289	Evaluating Shared Surfaces for Co-Located Mixed-Presence Collaboration. , 2018, , .		11
290	Exploring Real-Time Collaboration in Crowd-Powered Systems Through a UI Design Tool. Proceedings of the ACM on Human-Computer Interaction, 2018, 2, 1-23.	2.5	19
291	Perspective on and Re-orientation of Physical Proxies in Object-Focused Remote Collaboration. , 2018, , .		14
292	How Do Sketching and Non-Sketching Actions Convey Design Intent?., 2018, , .		6
293	Enabling Symmetric Collaboration in Public Spaces through 3D Mobile Interaction. Symmetry, 2018, 10, 69.	1.1	4
294	Hands on design: comparing the use of sketching and gesturing in collaborative designing. Journal of Design Research, 2018, 16, 24.	0.1	3
295	A Survey of Development Strategies for Collaborative Systems. , 2019, , .		2
296	Deconstructing Creativity. Proceedings of the ACM on Human-Computer Interaction, 2019, 3, 1-21.	2.5	9

#	Article	IF	CITATIONS
297	Talking about Chat at Work in the Global South. , 2019, , .		16
298	LeMo., 2019,,.		16
299	Comparing Human Factors for Augmented Reality Supported Single-User and Collaborative Repair Operations of Industrial Robots. Frontiers in Robotics and Al, 2019, 6, 37.	2.0	25
300	Investigating the Influence of Designers' Cognitive Characteristics and Interaction Behaviors in Design Concept Generation. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	1.7	9
301	Task Dependent Group Coupling and Territorial Behavior on Large Tiled Displays. Frontiers in Robotics and Al, 2019, 6, 128.	2.0	1
302	Vistrates: A Component Model for Ubiquitous Analytics. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 586-596.	2.9	30
303	FlexiSketch: a lightweight sketching and metamodeling approach for end-users. Software and Systems Modeling, 2019, 18, 1513-1541.	2.2	21
304	Optimal Orientation of Text Documents for Reading and Writing. Human-Computer Interaction, 2020, 35, 70-102.	3.1	3
305	Technologies for Enhancing Collocated Social Interaction: Review of Design Solutions and Approaches. Computer Supported Cooperative Work, 2020, 29, 29-83.	1.9	49
306	Design Thinking Research. Understanding Innovation, 2020, , .	0.9	4
307	Empirical study of Team Usability Testing: a laboratory experiment. Cognition, Technology and Work, 2020, , 1.	1.7	1
308	THE CO-DESIGN COGNITIVE PROCESS: IMPACTS OF A SPATIAL AUGMENTED REALITY PLATFORM. Proceedings of the Design Society DESIGN Conference, 2020, 1, 1047-1056.	0.8	1
309	Structured authoring for AR-based communication to enhance efficiency in remote diagnosis for complex equipment. Advanced Engineering Informatics, 2020, 45, 101096.	4.0	16
310	Shared Surfaces and Spaces: Collaborative Data Visualisation in a Co-located Immersive Environment. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1171-1181.	2.9	63
311	Personal Space and Territorial Behavior – Sharing a Tabletop in Collaborative Enterprise Modeling. Lecture Notes in Business Information Processing, 2021, , 111-130.	0.8	1
312	The Neuroscience of Team Cooperation Versus Team Collaboration. Understanding Innovation, 2021, , 203-217.	0.9	3
313	Affording embodied cognition through touchscreen and above-the-surface gestures during collaborative tabletop science learning. International Journal of Computer-Supported Collaborative Learning, 2021, 16, 105-144.	1.9	4
314	Surgical Video Summarization. Proceedings of the ACM on Human-Computer Interaction, 2021, 5, 1-23.	2.5	5

#	Article	IF	Citations
315	Extensible, Extendable, Expandable, Extractable: The 4E Design Approach for Reconfigurable Displays. International Journal of Human-Computer Interaction, 2021, 37, 1720-1736.	3.3	1
316	Stories Incarnate., 2021, , .		0
317	New application for sketching in a machine tool company. Journal of Engineering Design, 2022, 33, 64-94.	1.1	1
318	The Effects of Network Delays on Group Work in Real-Time Groupware. , 2001, , 299-318.		19
319	Reducing Interference in Single Display Groupware through Transparency., 2001,, 339-358.		8
320	Toward supporting group dynamics. , 2006, , 302-311.		6
321	Empirical Investigation into the Effect of Orientation on Text Readability in Tabletop Displays. , 2005, , 205-224.		27
322	Do Tangible User Interfaces Impact Spatial Cognition in Collaborative Design?. Lecture Notes in Computer Science, 2005, , 30-41.	1.0	11
323	A Display Table for Strategic Collaboration Preserving Private and Public Information. Lecture Notes in Computer Science, 2005, , 167-179.	1.0	8
324	A Comparison of Graphics and Speech in a Task-Oriented Interaction. Lecture Notes in Computer Science, 2000, , 245-256.	1.0	3
326	Interpersonal Computers for Higher Education. , 2009, , 1-17.		13
327	Computers in the Human Interaction Loop. , 2010, , 1071-1116.		12
328	Video-as-Data and Digital Video Manipulation Techniques for Transforming Learning Sciences Research, Education, and Other Cultural Practices., 2006, , 1321-1393.		50
329	A Tool for Performing and Analysing Experiments on Graphical Communication. , 2002, , 55-68.		9
330	Tele-Immersive Collaboration in the CAVE Research Network. Computer Supported Cooperative Work / Series Ed By: Dan Diaper and Colston Sanger, 2001, , 225-243.	1.1	12
331	Small Group Design Activity and Requirements on Collaborative Technologies. , 2000, , 253-260.		2
332	Using Media-mechanism Shifts to Uncover Design Communication Needs., 2000,, 349-358.		4
333	Negotiating Right Along: An Extended Case Study of the Social Activity of Engineering Design. , 1998, , 32-50.		4

#	Article	IF	Citations
334	Workspace Awareness in Real-Time Distributed Groupware: Framework, Widgets, and Evaluation. , 1996, , 281-298.		164
335	VideoArms: Embodiments for Mixed Presence Groupware. , 2007, , 85-102.		52
336	Taking CSCW Seriously: Supporting Articulation Work (1992). Computer Supported Cooperative Work / Series Ed By: Dan Diaper and Colston Sanger, 2008, , 45-71.	1.1	152
338	Collaborative Practices that Support Creativity in Design. , 2009, , 151-170.		20
339	Theory of Tabletop Territoriality. Human-computer Interaction Series, 2010, , 357-385.	0.4	25
340	Impromptu Prototyping and Artefacting: Representing Design Ideas through Things at Hand, Actions, and Talk., 2004,, 127-148.		4
342	A Comprehensive Overview of Visual Design of Process Model Element Labels. Lecture Notes in Business Information Processing, 2016, , 571-582.	0.8	6
343	Enhancing Creativity with Groupware Toolkits. Lecture Notes in Computer Science, 2003, , 1-9.	1.0	4
344	Mutual Awareness in Collocated and Distant Collaborative Tasks Using Shared Interfaces. Lecture Notes in Computer Science, 2007, , 59-73.	1.0	14
345	Function and Form of Gestures in a Collaborative Design Meeting. Lecture Notes in Computer Science, 2010, , 61-72.	1.0	7
346	System Guidelines for Co-located, Collaborative Work on a Tabletop Display., 2003,, 159-178.		160
347	Modeling Style of Work as an Aid to the Design and Evaluation of Interactive Systems., 2002,, 217-228.		5
349	The Collaborative Sketch. , 2012, , 95-97.		1
350	Common Ground in Electronically Mediated Communication: Clark's Theory of Language Use. , 2003, , 265-289.		51
351	Designing as playing games of make-believe. Design Science, 2020, 6, .	1.1	3
352	The importance of awareness for team cognition in distributed collaboration , 2004, , 177-201.		126
353	An annotated bibliography of computer supported cooperative work. ACM SIGCHI Bulletin, 1991, 23, 29-62.	0.2	14
354	Remotely Shaping the View in Surgical Telementoring. , 2020, , .		8

#	Article	IF	CITATIONS
355	Design Visualization and Collaborative Interaction in Undergraduate Engineering Teams. International Journal of Cognitive Ergonomics, 1999, 3, 235-259.	0.3	9
356	Evaluating Tools that Support Pair Programming in a Distributed Engineering Environment. , 2010, , .		7
357	Improving Team-Based Decision Making Using Data Analytics and Informatics: Protocol for a Collaborative Decision Support Design. JMIR Research Protocols, 2019, 8, e16047.	0.5	19
359	The effects of remote gesturing on distance instruction. , 2005, , .		16
360	TurboTurtle., 1995,,.		10
361	From Mundane to Smart. International Journal of Mobile Human Computer Interaction, 2016, 8, 59-82.	0.1	7
362	Collaborative Design Studio on Trial: A Conceptual Framework in Practice. Current Urban Studies, 2014, 02, 1-12.	0.3	5
363	Designing spaces to support collaborative creativity in shared virtual environments. PeerJ Computer Science, 2019, 5, e229.	2.7	8
364	Physicality As an Anchor for Coordination: Examining Collocated Collaboration in Physical and Mobile Augmented Reality Settings. Proceedings of the ACM on Human-Computer Interaction, 2021, 5, 1-29.	2.5	4
365	Sharing Design Ideas: Conversational Grounding in Collaborative Design. , 2000, , 339-347.		0
366	Designing Groupware Applications: A Work-Centered Design Approach 1., 2000, , 137-170.		4
367	Using a Room Metaphor to Ease Transitions in Groupware. , 2002, , 203-256.		38
368	What video can and cannot do for collaboration: a case study. , 2002, , 554-564.		1
370	Virtual Teams as Sociotechnical Systems. , 2005, , 3007-3012.		3
372	Observing Collaboration: Group-Centered Design. , 2007, , 111-118.		0
375	Automatic Relational Reporting to Support Group Dynamics. , 2009, , 271-281.		0
376	An analytical framework for the evaluation of collaborative design around an interactive tabletop. , 2010, , .		0
377	Awareness Checklist: Reviewing the Quality of Awareness Support in Collaborative Applications. Lecture Notes in Computer Science, 2010, , 202-217.	1.0	5

#	ARTICLE	IF	CITATIONS
378	"Scales―Affecting Design Communication in Collaborative Virtual Environments. , 2011, , 77-87.		2
379	Les gestes dans des réunions de conception architecturale. Activités, 2011, 08, .	0.1	2
380	A Case Study of Interactive Tabletops in Education: Attitudes, Issues of Orientation and Asymmetric Collaboration. Lecture Notes in Computer Science, 2013, , 466-471.	1.0	2
381	Increasing Awareness in Distributed Software Teams: a First Evaluation. , 2013, , .		o
382	Enhancing LACOME to Consider Privacy and Security Concerns. Human-computer Interaction Series, 2013, , 107-118.	0.4	1
383	A User-Centered-Design Perspective on Systems to Support Co-located Design Collaboration. Lecture Notes in Computer Science, 2013, , 245-254.	1.0	2
384	Definition of Tactile Interactions for a Multi-Criteria Selection in a Virtual World. International Journal of Advanced Computer Science and Applications, 2014, 5, .	0.5	1
385	Construction and Evaluation of a Collaboration Observation Model. Lecture Notes in Computer Science, 2014, , 23-37.	1.0	0
386	Multi-user Applications for Cooperative Work in Cardiology and Radiology. , 1993, , 37-42.		1
387	Developing a Tool to Support Collaborative Dialogues and Graphical Representation of Ideas. , 1994, , 219-235.		2
389	Collaborative Product Development in CAD and CAPP. IFIP Advances in Information and Communication Technology, 1996, , 53-72.	0.5	1
390	Do Localised Auditory Cues in Group Drawing Environments matter?. , 1998, , .		3
391	The Study and Design of Collaboration Tools for Flight Attendants. International Journal of Mobile Human Computer Interaction, 2018, 10, 31-56.	0.1	1
392	Prototyper: A Virtual Remote Prototyping Space. Understanding Innovation, 2020, , 171-184.	0.9	4
393	Effects of Operability on Reading. , 2020, , 43-110.		1
394	Analyzing the Usability of a Design Rationale Notation. , 2020, , 185-215.		18
395	Support for Asynchronous Interaction in Group Experiential Learning. , 2004, 6, 47-62.		1
397	The mechanics of drawing. PlaNext - Next Generation Planning, 0, 12, .	0.0	0

#	ARTICLE	IF	CITATIONS
400	Watch Me Write: Exploring the Effects of Revealing Creative Writing Process through Writing Replay. , 2022, , .		1
401	Experimental study to investigate mental workload of local vs remote operator in human-machine interaction. Production and Manufacturing Research, 2022, 10, 410-427.	0.9	1
402	Territoriality in Hybrid Collaboration. Proceedings of the ACM on Human-Computer Interaction, 2022, 6, 1-37.	2.5	2
403	Semi-automated analysis of collaborative interaction: are we there yet?. Proceedings of the ACM on Human-Computer Interaction, 2022, 6, 354-380.	2.5	O
404	Towards Immersive Collaborative Sensemaking. Proceedings of the ACM on Human-Computer Interaction, 2022, 6, 722-746.	2.5	5
405	Elements of a design method – a basis for describing and evaluating design methods. Design Science, 2022, 8, .	1.1	3
406	Interacting with actuated walls: Exploring applications and input types. International Journal of Human Computer Studies, 2022, , 102986.	3.7	1
407	Iterative transformations for deeper exploration during concept generation. International Journal of Technology and Design Education, 2024, 34, 267-305.	1.7	O
408	Side-by-Side vs Face-to-Face: Evaluating Colocated Collaboration via a Transparent Wall-sized Display. Proceedings of the ACM on Human-Computer Interaction, 2023, 7, 1-29.	2.5	1
409	OpenMic: Utilizing Proxemic Metaphors for Conversational Floor Transitions in Multiparty Video Meetings. , 2023, , .		2
410	Exploring Co-located Interactions with a Shape-Changing Bar Chart. , 2023, , .		1
412	Using Remote Workshops to Promote Collaborative Work in the Context of a UX Process Improvement. Lecture Notes in Computer Science, 2023, , 254-266.	1.0	1
413	Are Two Heads Better than One? Investigating Remote Sighted Assistance with Paired Volunteers. , 2023, , .		0
414	A Genealogy of Designing as Performance. Understanding Innovation, 2023, , 383-419.	0.9	0
418	Design Tools for Supporting the Remote Collaborative Design Process: A Systematic Review., 2022,,.		0