

Ben Shneiderman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154
papers

8,940
citations

50
h-index

92
g-index

168
ext. papers

10,552
ext. citations

4.8
avg, IF

6.84
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 154 | Tree visualization with tree-maps. <i>ACM Transactions on Graphics</i> , 1992 , 11, 92-99 | 7.6 | 794 |
| 153 | Designing trust into online experiences. <i>Communications of the ACM</i> , 2000 , 43, 57-59 | 2.5 | 406 |
| 152 | The Reader-to-Leader Framework: Motivating Technology-Mediated Social Participation. <i>AIS Transactions on Human-Computer Interaction</i> , 2009 , 1, 13-32 | 1.2 | 405 |
| 151 | Creativity support tools: accelerating discovery and innovation. <i>Communications of the ACM</i> , 2007 , 50, 20-32 | 2.5 | 328 |
| 150 | Universal usability. <i>Communications of the ACM</i> , 2000 , 43, 84-91 | 2.5 | 291 |
| 149 | LifeLines: visualizing personal histories 1996 , | | 259 |
| 148 | The future of interactive systems and the emergence of direct manipulation—This paper was originally presented as the Keynote Address at the N.Y.U. Symposium on User Interfaces, 26-28 May 1982, New York, U.S.A. It will be published in <i>Human Factors and Interactive Computer Systems</i> , 1983, edited by Y. Vassiliou, Ablex Publishing Co., Norwood, New Jersey, U.S.A.; <i>Behaviour</i> | 2.4 | 212 |
| 147 | Dynamic Query Tools for Time Series Data Sets: Timebox Widgets for Interactive Exploration. <i>Information Visualization</i> , 2004 , 3, 1-18 | 2.4 | 208 |
| 146 | Dynamic queries for information exploration 1992 , | | 205 |
| 145 | Strategies for evaluating information visualization tools 2006 , | | 203 |
| 144 | Visual information seeking 1994 , | | 192 |
| 143 | High precision touchscreens: design strategies and comparisons with a mouse. <i>International Journal of Man-Machine Studies</i> , 1991 , 34, 593-613 | | 183 |
| 142 | Determining Causes and Severity of End-User Frustration. <i>International Journal of Human-Computer Interaction</i> , 2004 , 17, 333-356 | 3.6 | 178 |
| 141 | Syntactic/semantic interactions in programmer behavior: A model and experimental results. <i>International Journal of Computer & Information Sciences</i> , 1979 , 8, 219-238 | | 171 |
| 140 | Network visualization by semantic substrates. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006 , 12, 733-40 | 4 | 168 |
| 139 | Experimental investigations of the utility of detailed flowcharts in programming. <i>Communications of the ACM</i> , 1977 , 20, 373-381 | 2.5 | 157 |
| 138 | Temporal event sequence simplification. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2013 , 19, 2227-36 | 4 | 154 |

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|-----|--|------|-----|
| 137 | Community response grids: E-government, social networks, and effective emergency management. <i>Telecommunications Policy</i> , 2007 , 31, 592-604 | 4 | 148 |
| 136 | Split menus. <i>ACM Transactions on Computer-Human Interaction</i> , 1994 , 1, 27-51 | 4.7 | 140 |
| 135 | Exploratory experiments in programmer behavior. <i>International Journal of Computer & Information Sciences</i> , 1976 , 5, 123-143 | | 137 |
| 134 | Human-Centered Artificial Intelligence: Reliable, Safe & Trustworthy. <i>International Journal of Human-Computer Interaction</i> , 2020 , 36, 495-504 | 3.6 | 132 |
| 133 | A Rank-by-Feature Framework for Interactive Exploration of Multidimensional Data. <i>Information Visualization</i> , 2005 , 4, 96-113 | 2.4 | 129 |
| 132 | Balancing systematic and flexible exploration of social networks. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006 , 12, 693-700 | 4 | 127 |
| 131 | Computer science. Science 2.0. <i>Science</i> , 2008 , 319, 1349-50 | 33.3 | 124 |
| 130 | Creativity Support Tools: Report From a U.S. National Science Foundation Sponsored Workshop. <i>International Journal of Human-Computer Interaction</i> , 2006 , 20, 61-77 | 3.6 | 119 |
| 129 | The Eyes Have It: A Task by Data Type Taxonomy for Information Visualizations 2003 , 364-371 | | 107 |
| 128 | Inventing Discovery Tools: Combining Information Visualization with Data Mining. <i>Information Visualization</i> , 2002 , 1, 5-12 | 2.4 | 105 |
| 127 | The dynamic HomeFinder 1992 , | | 105 |
| 126 | Improving Healthcare with Interactive Visualization. <i>Computer</i> , 2013 , 46, 58-66 | 1.6 | 103 |
| 125 | eHealth research from the user's perspective. <i>American Journal of Preventive Medicine</i> , 2007 , 32, S97-103 | 3.1 | 102 |
| 124 | Sorting out searching. <i>Communications of the ACM</i> , 1998 , 41, 95-98 | 2.5 | 99 |
| 123 | Creativity support tools. <i>Communications of the ACM</i> , 2002 , 45, 116-120 | 2.5 | 95 |
| 122 | Snap-together visualization: can users construct and operate coordinated visualizations?. <i>International Journal of Human Computer Studies</i> , 2000 , 53, 715-739 | 4.6 | 94 |
| 121 | Program indentation and comprehensibility. <i>Communications of the ACM</i> , 1983 , 26, 861-867 | 2.5 | 85 |
| 120 | Temporal summaries: supporting temporal categorical searching, aggregation and comparison. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009 , 15, 1049-56 | 4 | 84 |

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| 119 | Motif simplification 2013 , | | 83 |
| 118 | Investigating touchscreen typing: the effect of keyboard size on typing speed. <i>Behaviour and Information Technology</i> , 1993 , 12, 17-22 | 2.4 | 80 |
| 117 | Workplace user frustration with computers: an exploratory investigation of the causes and severity. <i>Behaviour and Information Technology</i> , 2006 , 25, 239-251 | 2.4 | 78 |
| 116 | A Visual Interface for Multivariate Temporal Data: Finding Patterns of Events across Multiple Histories 2006 , | | 64 |
| 115 | Bridging the Gap Between Ethics and Practice. <i>ACM Transactions on Interactive Intelligent Systems</i> , 2020 , 10, 1-31 | 1.8 | 61 |
| 114 | Users can change their web search tactics: Design guidelines for categorized overviews. <i>Information Processing and Management</i> , 2008 , 44, 463-484 | 6.3 | 58 |
| 113 | A graphical filter/flow representation of Boolean queries: A prototype implementation and evaluation. <i>Journal of the Association for Information Science and Technology</i> , 1993 , 44, 327-339 | | 58 |
| 112 | Embedded menus: selecting items in context. <i>Communications of the ACM</i> , 1986 , 29, 312-318 | 2.5 | 58 |
| 111 | Knowledge discovery in high-dimensional data: case studies and a user survey for the rank-by-feature framework. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006 , 12, 311-22 | 4 | 56 |
| 110 | Severity and impact of computer user frustration: A comparison of student and workplace users. <i>Interacting With Computers</i> , 2006 , 18, 187-207 | 1.6 | 56 |
| 109 | Clarifying Search. <i>D-Lib Magazine</i> , 1997 , 3, | | 56 |
| 108 | Navigating in hyperspace. <i>Communications of the ACM</i> , 1994 , 37, 87-96 | 2.5 | 55 |
| 107 | Previews and overviews in digital libraries: Designing surrogates to support visual information seeking. <i>Journal of the Association for Information Science and Technology</i> , 2000 , 51, 380-393 | | 53 |
| 106 | A model for computer frustration: the role of instrumental and dispositional factors on incident, session, and post-session frustration and mood. <i>Computers in Human Behavior</i> , 2006 , 22, 941-961 | 7.7 | 52 |
| 105 | The New ABCs of Research 2016 , | | 52 |
| 104 | Rapid understanding of scientific paper collections: Integrating statistics, text analytics, and visualization. <i>Journal of the Association for Information Science and Technology</i> , 2012 , 63, 2351-2369 | | 50 |
| 103 | Interface and data architecture for query preview in networked information systems. <i>ACM Transactions on Information Systems</i> , 1999 , 17, 320-341 | 4.8 | 49 |
| 102 | An exploratory evaluation of three interfaces for browsing large hierarchical tables of contents. <i>ACM Transactions on Information Systems</i> , 1994 , 12, 383-406 | 4.8 | 49 |

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| 101 | Multiparty Grammars and Related Features for Defining Interactive Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1982 , 12, 148-154 | | 45 |
| 100 | Relate>Create=Donate: a teaching/learning philosophy for the cyber-generation. <i>Computers and Education</i> , 1998 , 31, 25-39 | 9.5 | 44 |
| 99 | Data Sonification for Users with Visual Impairment. <i>ACM Transactions on Computer-Human Interaction</i> , 2008 , 15, 1-28 | 4.7 | 44 |
| 98 | Using Treemaps to Visualize the Analytic Hierarchy Process. <i>Information Systems Research</i> , 1995 , 6, 357-375 | 3.5 | 44 |
| 97 | Windows of opportunity in electronic classrooms. <i>Communications of the ACM</i> , 1995 , 38, 19-24 | 2.5 | 42 |
| 96 | A task taxonomy for network evolution analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014 , 20, 365-76 | 4 | 40 |
| 95 | Perspective-based Usability Inspection: An Empirical Validation of Efficacy. <i>Empirical Software Engineering</i> , 1999 , 4, 43-69 | 3.3 | 39 |
| 94 | Designing Semantic Substrates for Visual Network Exploration. <i>Information Visualization</i> , 2007 , 6, 281-300 | 4 | 34 |
| 93 | Universal usability as a stimulus to advanced interface design. <i>Behaviour and Information Technology</i> , 2001 , 20, 367-376 | 2.4 | 33 |
| 92 | Novel user interface design for medication reconciliation: an evaluation of Twinlist. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2015 , 22, 340-9 | 8.6 | 31 |
| 91 | Exploring auction databases through interactive visualization. <i>Decision Support Systems</i> , 2006 , 42, 1521-1538 | 5.8 | 31 |
| 90 | Visualizing change over time using dynamic hierarchies: TreeVersity2 and the StemView. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2013 , 19, 2566-75 | 4 | 30 |
| 89 | Evaluating three museum installations of a hypertext system. <i>Journal of the Association for Information Science and Technology</i> , 1989 , 40, 172-182 | | 30 |
| 88 | A Spectrum of Automatic Hypertext Constructions. <i>New Review of Hypermedia and Multimedia</i> , 1989 , 1, 179-195 | | 29 |
| 87 | The big picture for big data: visualization. <i>Science</i> , 2014 , 343, 730 | 33.3 | 26 |
| 86 | Web science. <i>Communications of the ACM</i> , 2007 , 50, 25-27 | 2.5 | 26 |
| 85 | Designing menu selection systems. <i>Journal of the Association for Information Science and Technology</i> , 1986 , 37, 57-70 | | 25 |
| 84 | Public health. 911.gov. <i>Science</i> , 2007 , 315, 944 | 33.3 | 24 |

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| 83 | We can design better user interfaces: A review of human-computer interaction styles. <i>Ergonomics</i> , 1988 , 31, 699-710 | 2.9 | 23 |
| 82 | . <i>IEEE Transactions on Technology and Society</i> , 2020 , 1, 73-82 | 5.2 | 22 |
| 81 | Group-in-a-Box Layout for Multi-faceted Analysis of Communities 2011 , | | 21 |
| 80 | Social network analysis: Measuring, mapping, and modeling collections of connections 2020 , 31-51 | | 20 |
| 79 | Representing Unevenly-Spaced Time Series Data for Visualization and Interactive Exploration. <i>Lecture Notes in Computer Science</i> , 2005 , 835-846 | 0.9 | 20 |
| 78 | Learning a menu selection tree: training methods compared. <i>Behaviour and Information Technology</i> , 1985 , 4, 81-91 | 2.4 | 19 |
| 77 | Using interactive visualizations of WWW log data to characterize access patterns and inform site design. <i>Journal of the Association for Information Science and Technology</i> , 2001 , 52, 331-343 | | 18 |
| 76 | Inventing Discovery Tools: Combining Information Visualization with Data Mining. <i>Lecture Notes in Computer Science</i> , 2001 , 17-28 | 0.9 | 18 |
| 75 | Looking for the bright side of user interface agents. <i>Interactions</i> , 1995 , 2, 13-15 | 1 | 18 |
| 74 | Incorporating String Search in a Hypertext System: User Interface and Signature File Design Issues. <i>New Review of Hypermedia and Multimedia</i> , 1990 , 2, 183-200 | | 18 |
| 73 | A graphical filter/flow representation of Boolean queries: A prototype implementation and evaluation 1993 , 44, 327 | | 18 |
| 72 | Inventing discovery tools: combining information visualization with data mining. <i>Information Visualization</i> , 2002 , 1, 5-12 | 2.4 | 17 |
| 71 | Do You Know the Way to SNA?: A Process Model for Analyzing and Visualizing Social Media Network Data 2012 , | | 16 |
| 70 | Emergent patterns of teaching/learning in electronic classrooms. <i>Educational Technology Research and Development</i> , 1998 , 46, 23-42 | 3.6 | 15 |
| 69 | Human values and the future of technology: a declaration of empowerment. <i>ACM SIGCAS Computers and Society</i> , 1990 , 20, 1-6 | 0 | 15 |
| 68 | Monitoring Academic Conferences: Real-Time Visualization and Retrospective Analysis of Backchannel Conversations 2012 , | | 14 |
| 67 | NetVisia: Heat Map & Matrix Visualization of Dynamic Social Network Statistics & Content 2011 , | | 14 |
| 66 | The end of zero-hit queries: query previews for NASA's Global Change Master Directory. <i>International Journal on Digital Libraries</i> , 1999 , 2, 79-90 | 1.4 | 14 |

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| 65 | Visual overviews for discovering key papers and influences across research fronts. <i>Journal of the Association for Information Science and Technology</i> , 2009 , 60, 2219-2228 | | 13 |
| 64 | EventGraphs: Charting Collections of Conference Connections 2011 , | | 13 |
| 63 | Using rhythms of relationships to understand e-mail archives. <i>Journal of the Association for Information Science and Technology</i> , 2006 , 57, 1936-1948 | | 13 |
| 62 | Time Stress Effects on Two Menu Selection Systems. <i>Proceedings of the Human Factors Society Annual Meeting</i> , 1987 , 31, 727-731 | | 13 |
| 61 | Innovation trajectories for information visualizations: Comparing treemaps, cone trees, and hyperbolic trees. <i>Information Visualization</i> , 2012 , 11, 87-105 | 2.4 | 12 |
| 60 | Twin-Win Model: A human-centered approach to research success. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12590-12594 | 11.5 | 12 |
| 59 | Governing AI safety through independent audits. <i>Nature Machine Intelligence</i> , 2021 , 3, 566-571 | 22.5 | 10 |
| 58 | Apply or Die: On the Role and Assessment of Application Papers in Visualization. <i>IEEE Computer Graphics and Applications</i> , 2017 , 37, 96-104 | 1.7 | 9 |
| 57 | Discovering temporal changes in hierarchical transportation data: Visual analytics & text reporting tools. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 51, 167-179 | 8.4 | 9 |
| 56 | Interactive Network Exploration to Derive Insights: Filtering, Clustering, Grouping, and Simplification. <i>Lecture Notes in Computer Science</i> , 2013 , 2-18 | 0.9 | 9 |
| 55 | TreeVersity: Interactive Visualizations for Comparing Hierarchical Data Sets. <i>Transportation Research Record</i> , 2013 , 2392, 48-58 | 1.7 | 9 |
| 54 | Colour-coded pixel-based highly interactive Web mapping for georeferenced data exploration. <i>International Journal of Geographical Information Science</i> , 2005 , 19, 413-428 | 4.1 | 9 |
| 53 | Facilitating data exploration with query previews: A study of user performance and preference. <i>Behaviour and Information Technology</i> , 2000 , 19, 393-403 | 2.4 | 9 |
| 52 | An experimental evaluation of three touch screen strategies within a hypertext database. <i>International Journal of Human-Computer Interaction</i> , 1989 , 1, 41-52 | 3.6 | 9 |
| 51 | Future directions for human-computer interaction. <i>International Journal of Human-Computer Interaction</i> , 1990 , 2, 73-90 | 3.6 | 9 |
| 50 | Reducing wrong patient selection errors: exploring the design space of user interface techniques 2014 , 2014, 1056-65 | 0.7 | 9 |
| 49 | A Temporal Pattern Search Algorithm for Personal History Event Visualization. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2012 , 24, 799-812 | 4.2 | 8 |
| 48 | Community response grids: using information technology to help communities respond to bioterror emergencies. <i>Biosecurity and Bioterrorism</i> , 2007 , 5, 335-45 | | 8 |

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| 47 | Visual Information Seeking: Tight Coupling of Dynamic Query Filters with Starfield Displays 2003 , 7-13 | | 8 |
| 46 | An evaluation of jump-ahead techniques in menu selection. <i>Behaviour and Information Technology</i> , 1987 , 6, 97-108 | 2.4 | 8 |
| 45 | Increasing Recognition of Wrong-Patient Errors through Improved Interface Design of a Computerized Provider Order Entry System. <i>International Journal of Human-Computer Interaction</i> , 2018 , 34, 383-398 | 3.6 | 7 |
| 44 | TreeCovary: Coordinated dual treemap visualization for exploring the Recovery Act. <i>Government Information Quarterly</i> , 2012 , 29, 212-222 | 7.6 | 7 |
| 43 | Graph analytics-lessons learned and challenges ahead. <i>IEEE Computer Graphics and Applications</i> , 2011 , 31, 18-29 | 1.7 | 7 |
| 42 | A national initiative for social participation. <i>Science</i> , 2009 , 323, 1426-7 | 33.3 | 7 |
| 41 | Enabling teachers to explore grade patterns to identify individual needs and promote fairer student assessment. <i>Computers and Education</i> , 2008 , 51, 1467-1485 | 9.5 | 7 |
| 40 | Designing to Facilitate Browsing: A Look Back at the Hyperties Workstation Browser. <i>New Review of Hypermedia and Multimedia</i> , 1991 , 3, 101-117 | | 7 |
| 39 | A photo history of SIGCHI. <i>Interactions</i> , 2002 , 9, 17-23 | 1 | 7 |
| 38 | Technology-Mediated Social Participation: The Next 25 Years of HCI Challenges. <i>Lecture Notes in Computer Science</i> , 2011 , 3-14 | 0.9 | 7 |
| 37 | Visual exploration across biomedical databases. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011 , 8, 536-50 | 3 | 6 |
| 36 | Exploring personal media: A spatial interface supporting user-defined semantic regions. <i>Journal of Visual Languages and Computing</i> , 2006 , 17, 254-283 | | 6 |
| 35 | Finding governmental statistical data on the Web: A study of categorically organized links for the FedStats topics page. <i>Journal of the Association for Information Science and Technology</i> , 2004 , 55, 1008-1015 | | 6 |
| 34 | Visualizing medical records with LifeLines 1998 , | | 6 |
| 33 | Exploring Data Distributions: Visual Design and Evaluation. <i>International Journal of Human-Computer Interaction</i> , 2013 , 29, 77-95 | 3.6 | 5 |
| 32 | Human Responsibility for Autonomous Agents. <i>IEEE Intelligent Systems</i> , 2007 , 22, 60-61 | 4.2 | 5 |
| 31 | Engagement and construction: Educational strategies for the post-TV era. <i>Journal of Computing in Higher Education</i> , 1993 , 4, 106-116 | 3.5 | 5 |
| 30 | Evaluating visual and statistical exploration of scientific literature networks 2011 , | | 4 |

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| 29 | MediaFinder 2003 , | | 4 |
| 28 | Snap-Together Visualization: A User Interface for Coordinating Visualizations via Relational Schemata 2003 , 341-348 | | 4 |
| 27 | Creativity and collaboration: Revisiting cybernetic serendipity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1837-1843 | 11.5 | 3 |
| 26 | TreeVersity: Comparing tree structures by topology and node's attributes differences 2011 , | | 3 |
| 25 | Toward an enriched (and revitalized) sense of help: Summary of an ASIS&T 2005 panel session. <i>Bulletin of the American Society for Information Science</i> , 2007 , 32, 23-26 | | 3 |
| 24 | Supporting statistical electronic table usage by citizens. <i>Communications of the ACM</i> , 2003 , 46, 52-54 | 2.5 | 3 |
| 23 | Component-based, user-constructed, multiple-view visualization 2001 , | | 3 |
| 22 | Distance learning 1998 , | | 3 |
| 21 | Responsible AI. <i>Communications of the ACM</i> , 2021 , 64, 32-35 | 2.5 | 3 |
| 20 | Visually Exploring Social Participation in Encyclopedia of Life 2012 , | | 2 |
| 19 | Commentary: extraordinary excitement empowering enhancing everyone. <i>Human-Computer Interaction</i> , 1-3 | 2.9 | 2 |
| 18 | Evaluating three museum installations of a hypertext system 1989 , 40, 172 | | 2 |
| 17 | Using interactive visualizations of WWW log data to characterize access patterns and inform site design 2001 , 52, 331 | | 2 |
| 16 | Elastic windows: design, implementation, and evaluation of multi-window operations. <i>Software - Practice and Experience</i> , 1998 , 28, 225-248 | 2.5 | 1 |
| 15 | Broadening Access to Large Online Databases by Generalizing Query Previews 2003 , 31-37 | | 1 |
| 14 | Information visualization advanced interface and Web design 1998 , | | 1 |
| 13 | Understanding human reactivites and relationships. <i>Interactions</i> , 2002 , 9, 40-53 | 1 | 1 |
| 12 | Visualizing Digital Library Search Results with Categorical and Hierarchical Axes 2003 , 169-177 | | 1 |

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| 11 | Advanced graphic user interfaces. <i>ACM Computing Surveys</i> , 1996 , 28, 144 | 13.4 | 1 |
| 10 | Visualizing Functional Data with an Application to eBay's Online Auctions 2008 , 873-898 | | 0 |
| 9 | Dynamic Aggregation to Support Pattern Discovery: A Case Study with Web Logs. <i>Lecture Notes in Computer Science</i> , 2001 , 464-469 | 0.9 | 0 |
| 8 | Inventing discovery tools: combining information visualization with data mining 2003 , 378-385 | | 0 |
| 7 | Human-Centered AI: A New Synthesis. <i>Lecture Notes in Computer Science</i> , 2021 , 3-8 | 0.9 | 0 |
| 6 | Artificial Intelligence for Humankind: A Panel on How to Create Truly Interactive and Human-Centered AI for the Benefit of Individuals and Society. <i>Lecture Notes in Computer Science</i> , 2021 , 335-339 | 0.9 | 0 |
| 5 | Multidimensional Analysis and Visualization on Large Biomedical Data 2010 , 157-184 | | |
| 4 | Designing community-based emergency communication system: A preliminary study. <i>Proceedings of the American Society for Information Science and Technology</i> , 2008 , 45, 1-3 | | |
| 3 | A trip report on creativity & cognition 1999. <i>ACM SIGCHI Bulletin</i> , 2000 , 32, 43-46 | | |
| 2 | Direct Annotation: A Drag-and-Drop Strategy for Labeling Photos 2003 , 58-65 | | |
| 1 | Installation, orientation, and layout 2020 , 55-66 | | |