

Reading List

Christopher Collins
Department of Computer Science
University of Toronto
10 King's College Road, Toronto, Ontario, Canada M5S 3H5
`ccollins@cs.utoronto.ca`

February 20, 2009

Contents

1	Linguistic Visualization	7
1.1	Summarization	7
1.2	Chat Systems / Chat Viz	7
1.3	Document Visualization and Navigation	7
1.4	Streaming Data	8
1.5	Tag Clouds	8
1.6	Text Visualization	9
1.7	Sentiment and Subjectivity	9
1.8	Lexical Relationship Visualization	9
1.9	Lattice Visualization	10
1.10	Visual Data Mining	10
1.10.1	Text Mining and Feature Extraction	10
1.10.2	Information Retrieval and Corpora Viz	10
1.11	Misc. NLP Visualization	11
2	Computational Linguistics	13
2.1	Word Sense Disambiguation	13
2.2	Phrase Detection and Parsing	13
2.3	Lexical Semantics	13
2.4	Concept or Lexical Distance Measures	14
2.5	Summarization and Significant Event Extraction	14
2.6	Semantic Classifiers	14
2.7	Data Mining	15
2.8	Machine Translation	15
2.9	CL Tutorials	15
2.10	Language Modelling	15
3	Information Visualization Methods	17
3.1	History and Timeline Visualization	17

3.2	Visualizing Errors and Uncertainty	17
3.3	Tree and Graph Visualization	18
3.4	Implicit Surfaces	19
3.5	Sets and Clusters	19
3.6	Treemap	20
3.7	Labeling	20
3.8	Large Datasets	20
3.9	Multi-Representation Visualization	20
3.10	Coordinated Views Visualization	21
3.11	3D Interfaces	21
3.12	Social Networks Visualization	22
3.13	Toolkits	22
3.14	InfoVis Interaction	22
3.14.1	Visualization Navigation History; Grounding and Back-up	23
3.14.2	Visualization Annotation	23
3.14.3	Collaborative Visualization	23
3.14.4	Interaction Techniques	23
3.15	Misc Visualization Techniques	24
4	Information Visualization Theory	25
4.1	Research Methods	25
4.2	Evaluation	25
4.3	Design Processes and Guidelines	26
4.4	Visual Variables and Perception	27
4.5	Colour	27
4.6	Visualization Use & Re-use	28
5	Human-Computer Interaction & Computer-Supported Cooperative Work	29
5.1	Interaction Techniques (non InfoVis-specific)	29
5.2	Tabletop Display	30
5.3	Groupware	31
5.4	Externalization Theory	31
5.5	Cognitive Science	31
5.6	Research Methods	31
6	Information Retrieval	33
6.1	Indexing and storage	33

CONTENTS

5

7	Miscellaneous	35
7.1	Theses	35
7.2	Statistics	35
7.3	PhD Studies & Professional Development	35
7.4	Programming	35
7.5	Paper Writing and Research Design	36

Chapter 1

Linguistic Visualization

1.1 Summarization

1. [Leuski *et al.* \(LEU2003a\)](#) [R] (multi-document summarization with visualization interface)
2. [Branavan *et al.* \(BRA2007a\)](#) [R] (generating ToC)

1.2 Chat Systems / Chat Viz

1. [Erickson *et al.* \(ERI2006a\)](#)
2. [Tat and Carpendale \(TAT2006a\)](#) [R]
3. [Donath \(DON2002a\)](#) [R]
4. [Donath *et al.* \(DON1999a\)](#) [3] (chat circles, loom)

1.3 Document Visualization and Navigation

1. [Ando *et al.* \(AND2000a\)](#) [R] (multi-document)
2. [Fujii and Ishikawa \(FUJ2006a\)](#) (subjective documents)
3. [Gregory *et al.* \(GRE2006a\)](#) [R] (sentiment content)
4. [Rembold and Späth \(REM2006a\)](#) [R] (comparitive document content vis with keywords)

5. Loyer *et al.* (LOY2005a) [R] (visualization of occurrences of tagged words through a document)
6. Mothe and Dkaki (343–364) [R] (multidimensional interactive vis)
7. Dieberger and Russell (DIE2001a) [1] (context lens)
8. Hammouda and Kamel (HAM2003a) [2] (document clustering; no visualization)
9. Holloway *et al.* (HOL2005a) [3] (wikipedia semantic coverage)
10. Guiard *et al.* (GUI2006a) [R] (document navigation in 3D; Fitt’s law test; Shakespeare as a standard text)
11. Cockburn *et al.* (COC2006a) [1] (good literature review, space-filling thumbnails for document navigation)
12. Suh *et al.* (SUH2002a) [r] (colour-coded popout of search terms on an overview and in main text)
13. Don *et al.* (DON2007a) [1] (featurelens, trend detector, demo online)
14. Appert and Fekete (APP2006a) [r] (multi-resolution scrolling in 1D for documents)
15. Lee *et al.* (LEE2005a) [1] (paperlens to examine trends in conferences)
16. Oelke *et al.* (OEL2008a) [r] (tilebars of opinion analysis, summarization)
17. Fekete and Dufournaud (FEK2000a) [r] (viz of structured XML)

1.4 Streaming Data

1. Havre *et al.* (HAV2002a) (ThemeRiver: changes over time)

1.5 Tag Clouds

1. Ahern *et al.* (AHE2007a) [R] (multi-resolution tag clouds; aggregated from geo-referenced data, placed on geographic map)
2. Rivadeneira *et al.* (RIV2007a) [R] (search,browse evaluation of tag cloud use (Doggear))

1.6 Text Visualization

1. [Huang *et al.* \(HUA2005a\)](#) (dimensionality reduction)
2. [Kuechler \(KUE2007a\)](#) (business apps of unstructured text)
3. [Ribler and Abrams \(RIB2000a\)](#) [R] (plagiarism detection; patterngram / n-gram match)
4. [Fekete and Dufournaud \(FEK2000a\)](#) [r] (viz of structured XML)
5. [Abbasi and Chen \(ABB2007a\)](#) [1] (ink blot overlay; visual categorization in CMC archives)

1.7 Sentiment and Subjectivity

1. [Fujii and Ishikawa \(FUJ2006a\)](#)
2. [Wiebe and Riloff \(WIE2005a\)](#) [R] (sentence classifier)
3. [Gregory *et al.* \(GRE2006a\)](#) [R] (visualization of sentiment in document)
4. [Plaisant *et al.* \(PLA2006a\)](#) [R] (erotics in 19th century literature)
5. [Kamps and Marx \(KAM2002b\)](#) [R] (subjective leanings of words through WN synonymy structure)
6. [Pang and Lee \(PAN2004a\)](#) (sentiment polarity classification with ML and min-cut algorithm)
7. [Oelke *et al.* \(OEL2008a\)](#) (tilebars visualization of lexicon-based opinion mining)

1.8 Lexical Relationship Visualization

1. [Barrière and St-Jacques \(BAR2005a\)](#) [R]
2. [Kamps *et al.* \(KAM2004a\)](#) [R]
3. [Manning *et al.* \(MAN2001a\)](#) [R] (Kirrkirri Walpiri dictionary vis)
4. [Dunn \(VISUWORDS\)](#) [R]
5. [Kamps and Marx \(KAM2002b\)](#) [R] (subjective leanings of words through WN synonymy structure)

1.9 Lattice Visualization

1. Valtchev *et al.* (VAL2003a) [R] (Galicia lattice visualization)
2. Collins *et al.* (COL2007b) [R] (lattice uncertainty)
3. Liu and Soong (LIU2006a) (ASR error correction using lattices and handwriting)
4. Freese (FRE2004a) (formal lattice drawing from GD perspective)

1.10 Visual Data Mining

1.10.1 Text Mining and Feature Extraction

1. Oelke *et al.* (OEL2008a) [r] (tilebars of opinion analysis, summarization)
2. Don *et al.* (DON2007a) [1] (featurelens, trend detector, demo online)
3. Chen (CHE2006a) (citespace: trends in text collections)

1.10.2 Information Retrieval and Corpora Viz

1. Wise *et al.* (WIS1995a) (galaxies)
2. Hearst (HEA1995a) (tilebars)
3. Cugini *et al.* (CUG1996a) (3D vis for IR)
4. Rembold and Späth (REM2006a) [R] (multiple documents comparative content vis)
5. Plaisant *et al.* (PLA2006a) [R] (classifying and visualizing different levels of erotics in 200+ Dickinson letters)
6. Morris *et al.* (MOR2006a) [R] (collaborative search on tables)
7. Dieberger and Russell (DIE2001a) [1] (context lens for documents)
8. Hammouda and Kamel (HAM2003a) [2] (incremental document clustering; no viz)
9. Ahern *et al.* (AHE2007a) [R] (multi-resolution tag exploration in geo-references photo collections)

10. [Ribler and Abrams \(RIB2000a\)](#) [R] (one-to-collection text comparison vis; patterngram / n-gram match)
11. [Thiel et al. \(THI2007a\)](#) (topic shifts in a pool of documents over time)
12. [Fox et al. \(FOX2006a\)](#) [R] (coordinated multiple views of search results; stepping stones between topics)
13. [Lee et al. \(LEE2005a\)](#) [1] (PaperLens to examine multi-years of conference proceedings)
14. [Chen \(CHE2006a\)](#) (citespace: trends in text collections)
15. [Havre et al. \(HAV2002a\)](#) (ThemeRiver: changes over time)

1.11 Misc. NLP Visualization

1. [Kempken et al. \(KEM2007a\)](#) [R] (rules for spelling variation using treemaps)

Chapter 2

Computational Linguistics

2.1 Word Sense Disambiguation

1. [Mohammad and Hirst \(MOH2005b\)](#) [R] (Saif's Word sense dominance with thesaurus)
2. [Pedersen *et al.* \(PED2005a\)](#) [R] (good review of measures and a general way to use them as to measure semantic relatedness)
3. [McCarthy *et al.* \(MCC2004a\)](#) [3] (automatic identification of infrequent senses)
4. [McCarthy *et al.* \(MCC2004b\)](#) [3] (automatic identification of predominant senses)
5. [Voorhees \(VOR1993a\)](#) [3] (using WordNet for disambiguation)
6. [Ji *et al.* \(JI2003a\)](#) (contexonyms – disambiguation with context for MT)
7. [Banerjee and Pedersen \(BAN2002a\)](#) [1] (Modified Lesk algorithm for WSD using WordNet)

2.2 Phrase Detection and Parsing

1. [Lin \(LIN1998a\)](#) (identification of NCPs)

2.3 Lexical Semantics

1. [Tomuro \(TOM2000a\)](#) [R] (tree cut models using WordNet)
2. [Li and Abe \(LI1998a\)](#) (tree cut model of thesaurus tree)

2.4 Concept or Lexical Distance Measures

1. [Mohammad and Hirst \(MOH2006a\)](#) (distributional measures)
2. [McCarthy *et al.* \(MCC2004a\)](#) (identification of infrequent senses)
3. [McCarthy *et al.* \(MCC2004b\)](#) (finding predominant senses in untagged text)
4. [Pedersen *et al.* \(PED2005a\)](#) [R] (comparison of many measures, general use of distance measures for WSD)
5. [Patwardhan and Pedersen \(PAT2006a\)](#) [1] (using WordNet and context to measure relatedness)
6. [Kamps and Marx \(KAM2002b\)](#) [R] (use of multi-step synonymy as a measure of distance)
7. [Li and Abe \(LI1998a\)](#) (tree cut model of thesaurus tree)

2.5 Summarization and Significant Event Extraction

1. [Moore \(MOR2004d\)](#) (summary of log likelihood ratios; clarification of ‘Dunning LLR’)
2. [Kleinberg \(KLE2002a\)](#) (detecting bursts in streams of text)
3. [Dunning \(DUN1993a\)](#) (Dunning Log Likelihood ratio)
4. [University \(WORDHOARD\)](#) [R] (practical algorithm for DUN1993a)
5. [Ding *et al.* \(DIN2008a\)](#) (lexicon-based opinion mining)

2.6 Semantic Classifiers

1. [Cook and Stevenson \(COO2006a\)](#) [3] (verb-particle)
2. [Kamps *et al.* \(KAM2004a\)](#) [R] (adjectives; using WordNet)
3. [Manning *et al.* \(MAN2001a\)](#) [R] (Walpiri words in a tree based on semantic clustering)
4. [Kamps and Marx \(KAM2002b\)](#) [R] (subjective leanings of words through WN synonymy structure)
5. [Li and Abe \(LI1998a\)](#) (tree cut model of thesaurus tree to generalize case frames)

2.7 Data Mining

1. [Ding et al. \(DIN2008a\)](#) (lexicon-based opinion mining)

2.8 Machine Translation

1. [Germann \(GER2003a\)](#) [R] (decoding speedup)
2. [Smith and Jahr \(SMI2000a\)](#) (alignment visualization)
3. [Inaba et al. \(INA2007a\)](#) [3] (translation with language grid; includes chat)
4. [DeNeefe et al. \(DEN2005a\)](#) [R] (DerivTool to explore model)
5. [Papineni et al. \(PAP2002a\)](#) [2] (Bleu score)
6. [Ji et al. \(JI2003a\)](#) (contexonyms)

2.9 CL Tutorials

1. [Landauer et al. \(LAN1998a\)](#) [3] (LSA)
2. [Knight \(KNI1999a\)](#) [3] (MT)
3. [Pedersen et al. \(PED2005a\)](#) [R] (overview of semantic distance measures)

2.10 Language Modelling

1. [Cohen \(COH1997a\)](#) [3] (hashing functions for n-grams; see RIB2000a)

Chapter 3

Information Visualization Methods

3.1 History and Timeline Visualization

1. [Plaisant et al. \(PLA1996a\)](#) (personal history; looks like Gantt chart)
2. [Dennis \(DEN2006a\)](#) [R] (blog history)
3. [Viégas et al. \(VIE2004a\)](#); [Viégas et al. \(VIE2007a\)](#) [R] (history flow: wikipedia)
4. [Kapler and Wright \(KAP2005a\)](#); [Eccles et al. \(ECC2007a\)](#) [r] (GeoTime, analyzing observations over time)
5. [Bauer et al. \(BAU2005a\)](#) [R] (papers organized by timeline)

3.2 Visualizing Errors and Uncertainty

1. [Johnson and Sanderson \(JOH2003a\)](#) [R]
2. [Zuk and Carpendale \(ZUK2006a\)](#) [R]
3. [Amar and Stasko \(AMA2004a,A\)](#) [r] (analytic gaps, one of them is lack of)
4. [Pang et al. \(PAN1997a\)](#) [2]
5. [Collins et al. \(COL2007b\)](#) [R] (lattice uncertainty)
6. [Zuk \(ZUK2005a\)](#) (Torre's Research Proposal; literature review)

7. Lee *et al.* (LEE2007a) [R] (candidtree: uncertainty/differences in trees; reading group)

3.3 Tree and Graph Visualization

1. Battista *et al.* (BAT1999a) [3] (graph layout biblio)
2. Munzner (MUN2000a)
3. Kosara *et al.* (KOS2001a) [R] (semantic DOF)
4. Fekete and Plaisant (FEK2002a) [R]
5. Budiu *et al.* (BUD2006a) [3] (nav in DOI trees)
6. Battista *et al.* (BAT1999a) [3] (graph drawing book)
7. Phan *et al.* (PHA2005a) [r] (flow map layout)
8. Neumann *et al.* (NEU2006a) [R] (phyllo trees)
9. Eades (EAD1992a) [3] (original radial tree layout paper)
10. Stasko and Zhang (STA2000a) [R] (rsf trees)
11. Andrews and Heidegger (AND1998a) [R] (rsf trees; information slices)
12. Yang *et al.* (YAN2002a) [R] (interring)
13. Saraiya *et al.* (SAR2005b) (graph with timeseries embedded in node)
14. Lee *et al.* (LEE2007a) [R] (candidtree: uncertainty/differences in trees; reading group)
15. Eiglsperger *et al.* (EIG2005a) (Sugiyama algorithm)
16. Mohammadi-Aragh and Jankun-Kelly (MOH2005a) (multi-hierarchies)
17. Dwyer *et al.* (DWY2008a) [R] (constraint-based and force layout working together on different scales)
18. van Ham and van Wijk (VAN2004a) [R] (small world graphs with surfaces over clusters)
19. Buchheim *et al.* (BUC2002a) (Reingold-Tilford optimization used to layout trees in prefuse)

3.4 Implicit Surfaces

1. [Carpendale *et al.* \(CAR2004a\)](#) [3] (different energy drop-off functions)
2. [Watanabe *et al.* \(WAT2007a\)](#) [R] (bubble clusters with marching squares for file groupings)
3. [Heine and Scheuermann \(HEI2007a\)](#) [R] (automatic but slow clustering with blobs)
4. [Rohrer *et al.* \(ROH1999a\)](#) [R] (blobby text)
5. [Mohammadi-Aragh and Jankun-Kelly \(MOH2005a\)](#) (multi-hierarchies, Euler diagrams)
6. [Balzer and Deussen \(BAL2007a\)](#) (3D implicits over graph clusters)

3.5 Sets and Clusters

1. [Freiler *et al.* \(FRE2008a\)](#) [R] (set-o-grams)
2. [Heine and Scheuermann \(HEI2007a\)](#) [R] (automatic but slow clustering with blobs)
3. [Stasko *et al.* \(STA2007a\)](#) [R] (graphs showing sets of related entities extracted from text)
4. [van Ham and van Wijk \(VAN2004a\)](#) [R] (clusters in small-world graphs depending on zoom)
5. [Heer and danah boyd \(HEE2005c\)](#) [R] (Vizster social network clusters based on graph characteristics)
6. [Balzer and Deussen \(BAL2007a\)](#) (level of detail visualization of clusters and transparent surfaces)
7. [Bauer *et al.* \(BAU2005a\)](#) [R] (user defined implicit sets by organization and explicit sets by convex hull cluster)

3.6 Treemap

1. [Fekete and Plaisant \(FEK2002a\)](#) [R]
2. [Shneiderman and Wattenberg \(SHN2001a\)](#) [3] (ordered treemaps)
3. [Bruls *et al.* \(BRU2000a\)](#) [R] (squarified)
4. [Johnson and Shneiderman \(JOH1991a\)](#) [3] (original treemap paper)
5. [Kempken *et al.* \(KEM2007a\)](#) [R] (using treemaps to vis rule scores in NLP)

3.7 Labeling

1. [Fekete and Plaisant \(FEK2002a\)](#) [R]
2. [Fekete and Plaisant \(FEK1999a\)](#) [R] (excentric labelling)

3.8 Large Datasets

1. [Fekete and Plaisant \(FEK2002a\)](#) [R]
2. [Munzner \(MUN2000a\)](#) [2]
3. [Munzner *et al.* \(MUN2003a\)](#) [R] (TreeJuxtaposer)
4. [Holten \(HOL2006b\)](#) [R] (Edge bundles: adjacency relations in large graphs)
5. [Henry and Fekete \(HEN2006a\)](#) [R] (MatrixExplorer: multiple linked views of same large dataset)
6. [Holloway *et al.* \(HOL2005a\)](#) [3] (wikipedia semantic coverage)
7. [Ahern *et al.* \(AHE2007a\)](#) [R] (exploring tags of Flickr pictures)

3.9 Multi-Representation Visualization

1. [Neumann *et al.* \(NEU2005a\)](#) [R] (ArcTrees)
2. [Henry and Fekete \(HEN2006a\)](#) [R] (MatrixExplorer)
3. [Holten \(HOL2006b\)](#) [R] (Edge Bundles)

4. Shneiderman and Aris (SHN2006a); Aris and Shneiderman (ARI2007a) [R] (Semantic Substrates)
5. Fekete *et al.* (FEK2003a) [r] (overlay graph edges on treemap)
6. Zhao *et al.* (ZHA2005a) [R] (elastic hierarchies)
7. Balzar *et al.* (BAL2004a) [r] (software landscapes; 3D spheres on a plane, links connecting)
8. North and Shneiderman (NOR2000a) [R] (snap-together visualization)
9. Saraiya *et al.* (SAR2005b) (embed timeseries in graph nodes)
10. Dwyer *et al.* (DWY2008a) [R] (constraint-based and force layout working together on different scales)

3.10 Coordinated Views Visualization

1. North and Shneiderman (NOR2000a) [R] (snap-together visualization)
2. Leuski *et al.* (LEU2003a) [R] (multi-document summarization with visualization interface)
3. Saraiya *et al.* (SAR2005b) (eval of multi-view, multi-attribute against single view, single attribute)
4. Dwyer (DWY2004a) [1] (2.5D vis similar to VisLink)
5. Fox *et al.* (FOX2006a) [R] (CMV for information retrieval)
6. Baldonado *et al.* (WAN2000a) [1] (guidelines for multiple views)

3.11 3D Interfaces

1. Shneiderman (SHN2003a) [3] (enhanced reality in 3D)
2. Light and Miller (LIG2002a) [r] (Miramar: 2D planes fly to front, preset camera positions)
3. Kapler and Wright (KAP2005a) [R] (GeoTime: visualizing events over time)
4. Dwyer (DWY2004a) [1] (2.5D vis similar to VisLink)

3.12 Social Networks Visualization

1. Dennis (DEN2006a) [R] (blog)
2. Fiore (FIO2006a) [R] (online dating)
3. Venolia (VEN2006a) [R] (software development)
4. Fisher (FIS2006a) [R] (types of visualization use and data)
5. Wattenberg (WAT2006a) [R] (social vis in art)
6. Tat and Carpendale (TAT2006b) [R] (text conversations)
7. Viégas *et al.* (VIE2004a) [R] (history flow: authorship in wikipedia)
8. Viégas *et al.* (VIE2007a) [R] (history flow followup: talk pages in wikipedia)
9. Henry and Fekete (HEN2006a) [R] (MatrixExplorer)
10. Cherny (CHE2006b) [3] (LJ posting among friends)
11. Aipperspach (AIP2006a) [3] (social data from home-based sensors)
12. Heer (HEE2006b) [2] (socializing visualization)
13. Holloway *et al.* (HOL2005a) (analyzing semantic coverage of Wikipedia and authors)
14. Perer and Shneiderman (PER2006a,P,P) Social Action
15. Heer and danah boyd (HEE2005c) [R] (Vizster)

3.13 Toolkits

1. Fekete (FEK2004a) (Information Visualization toolkit from INRIA)
2. Shen *et al.* (SHE2004a) [R] (DiamondSpin framework for rotation on table-top)
3. Heer *et al.* (HEE2005b) (prefuse)

3.14 InfoVis Interaction

5.1

3.14.1 Visualization Navigation History; Grounding and Back-up

1. Heer *et al.* (HER2007b) [r] (asynchronous collaborative visualization; exploration histories)
2. Eccles *et al.* (ECC2007a) [r] (stories in GeoTime tracing analytic process)
3. David Gotz's work
4. Theseus and the string parable (<http://greece.mrdonn.org/theseus.html>)
5. BAU2005a [R] (Dynapad stores workspace states)

3.14.2 Visualization Annotation

1. Heer *et al.* (HER2007b) [r] (asynchronous collaborative visualization; exploration histories)

3.14.3 Collaborative Visualization

1. Heer *et al.* (HER2007b) [r] (asynchronous collaborative visualization; exploration histories)
2. Heer and Agrawala (HER2007c) [r] (distributed collaborative vis guidelines)
3. Mark *et al.* (MAR2003a) [r] (study of synchronous collaboration across various settings)
4. Willett *et al.* (WIL2007a) [r] (scented widgets: social indicators to aid navigation)
5. Viégas *et al.* (VIE2008a) (ManyEyes use case study)

3.14.4 Interaction Techniques

1. Bauer *et al.* (BAU2005a) [R] (collecting information items using lenses, trays, mutators)
2. Holten (HOL2006b) [R] (Edge bundles: bundle edges, select a single bundle, then unbundle)

3.15 Misc Visualization Techniques

1. Kosara *et al.* (KOS2001a); nad Silvia Miksch (KOS2002a) [R] (Semantic Depth of Field)
2. Robertson *et al.* (ROB1998a) [R] (Data Mountain)
3. Holten (HOL2006b) [R] (Edge bundles)
4. Phan *et al.* (PHA2005a) [r] (flow map layout)
5. Watanabe *et al.* (WAT2007a) [R] (bubble clusters)
6. Ribler and Abrams (RIB2000a) [R] (pattern match / n-gram match)

Chapter 4

Information Visualization Theory

5.4

4.1 Research Methods

1. [Neustaedter \(NEU2007a\)](#) [R] (qualitative research methods; coding observational study notes)
2. [Mark *et al.* \(MAR2003a\)](#) (a study on collaboration using video analysis)
3. [Saraiya *et al.* \(SAR2005a\)](#) (insight-based methodology)
4. [González and Kobsa \(GON2003a\)](#) (longitudinal study of visualization use in a workplace)
5. [Huges *et al.* \(HUG1994a\)](#) (ethnography in system design)

4.2 Evaluation

1. [Ghoniem *et al.* \(GHO2004a\)](#) [R] (readability of node-link vs. matrix)
2. [Plaisant \(PLA2004a\)](#) [R] (general discussion)
3. [Gutwin and Greenberg \(GUT2000a\)](#) [R] (discount methods for distributed collaboration evaluation)
4. [Amar and Stasko \(AMA2004a,A\)](#) [r] (analytic gaps)
5. [Saraiya *et al.* \(SAR2005a\)](#) (insight-based eval)

6. [Zuk and Carpendale \(ZUK2006a\)](#) (heuristics for eval)
7. [Bertini *et al.* \(BER2007a\)](#) (report on BELIV 2006)
8. [Andrews \(AND2006a\)](#) (formative testing, summative testing)
9. [Ellis and Dix \(ELL2006a\)](#) (analysis of evaluations in published InfoVis papers)
10. [Mazza \(MAZ2006a\)](#) (experience report on focus group)
11. [Bertini and Santucci \(BER2006a\)](#) (feature preservation metrics; lie factor)
12. [Shneiderman and Plaisant \(SHN2006b\)](#) (in-depth long term case studies)
13. [Tory and Möller \(TOR2005a\)](#) (expert reviews for viz)
14. [Perer and Shneiderman \(PER2008a\)](#) (long term case studies examples)
15. [Kosara *et al.* \(KOS2008a\)](#) (visualization criticism)

4.3 Design Processes and Guidelines

1. [Fry \(FRY2004a\)](#) [R] (processing thesis)
2. [Fry \(FRY1997a\)](#) [3]
3. [Scott *et al.* \(SCO2003a\)](#) [R] (tabletop display)
4. [Cleveland and McGill \(CLE1984a\)](#) [1] (graphical perception)
5. [Wigdor and Balakrishnan \(WIG2005a\)](#) [R] (text orientation on tables)
6. [Kruger *et al.* \(KRU2003a\)](#) [R] (how people use orientation to communicate on tables)
7. [Fisher \(FIS2006a\)](#) [R] (types of visualization use and data; social vis focus)
8. [Brath *et al.* \(BRA2005a\)](#) [R] (sizzle; importance of aesthetic appeal)
9. [Wigdor *et al.* \(WIG2007a\)](#) [R] (visual variable and perception on table and multi-surface display)
10. [Craft and Cairns \(CRA2005a\)](#) [3] (beyond guidelines, the mantra)
11. [Chen \(CHE2005a\)](#) [2] (top 10 challenges in info vis)

12. Heer and Agrawala (HEE2006a) [2] (software design patterns for IV)
13. Heer and Agrawala (HER2007c) [r] (distributed collaborative vis guidelines)
14. Huges *et al.* (HUG1994a) (design of a system for collaboration)
15. Baldonado *et al.* (WAN2000a) [1] (guidelines for multiple views)

4.4 Visual Variables and Perception

1. Cleveland and McGill (CLE1984a) [1] (perception of various visual variables; proposal of new data graphs)
2. Wigdor and Balakrishnan (WIG2005a) [R] (text orientation on tables)
3. Ware (WAR2004b) [r] (Ware's book; perception aspects explained)
4. Bertin (BER1983a) [R] (invention of visual variables)
5. Carpendale (CAR2003a) [R] (extending vv to interactive visualization)
6. Wolfe (WOL2003b) [R] (preattentive processing debate)
7. Lollo *et al.* (DIL2001a) [3] (preattentive processing debate)
8. Wigdor *et al.* (WIG2007a) [R] (visual variable and perception on table and multi-surface display)
9. Beattie and Jones (BEA2002a) [3] (graph slope on rate of change judgements)
10. Wattenberg and Fisher (WAT2004a) [r] (automatically analyzing perceptual organization in viz)

4.5 Colour

1. Stone (STO2006a) [R] (Maureen Stone tutorial)
2. Stone (STO2005a) [R] (colour as 3 numbers)
3. Stone (STO2003a) [R] (digital colour)
4. Ware (WAR2004b) [r] (perception of colour, colour scales)
5. Baker and Bushell (BAK1995a) [R] (colour scale comparison)

6. [Itten \(ITT1974a\)](#) (principles of color design)
7. [Holten \(HOL2006b\)](#) [R] (use of opengl EXT-BLEND-MINMAX to bring out edges embedded in dense sets)

4.6 Visualization Use & Re-use

1. [Viégas *et al.* \(VIE2008a\)](#) (case study on spontaneous use of visualization tools (ManyEyes))

Chapter 5

Human-Computer Interaction & Computer-Supported Cooperative Work

5.1 Interaction Techniques (non InfoVis-specific)

3.14

1. Kruger *et al.* (KRU2005a) [R] (Rotation and translation on tables)
2. Manning *et al.* (MAN2001a) [R] (style sheets to customize level of difficulty of dictionary definitions in interface)
3. Ha *et al.* (HA2006a) [R] (stylus vs. mouse vs. direct touch on tabletop; naturalness, awareness of intent/action)
4. Guimbretière and Winograd (GUI2000a) [R] (FlowMenus: fluid choice of menu item and free entry of parameters or text with a stylus)
5. Wong *et al.* (WON2003a) [1] (EdgeLens)
6. Dieberger and Russell (DIE2001a) [1] (context lens for documents)
7. Apitz and Guimbretière (API2004a) [R] (Crossy, pen crossing interface)
8. Willett *et al.* (WIL2007a) [R] (Scented widgets: indicators for vis navigation)
9. Marks *et al.* (MAR1997a) [2] (design galleries for parameter setting)

10. [Guiard et al. \(GUI2006a\)](#) [R] (document navigation in 3D; Fitt's law test; Shakespeare as a standard text)
11. [Appert and Fekete \(APP2006a\)](#) [r] (multi-resolution scrolling in 1D for documents)

5.2 Tabletop Display

1. [Scott et al. \(SCO2003a\)](#) [R]
2. [Chapulis and Roussel \(CHA2005a\)](#) [R] (Metisse framework for window manager development)
3. [Wigdor and Balakrishnan \(WIG2005a\)](#) [R] (text orientation)
4. [Kruger et al. \(KRU2003a\)](#) [R] (how people use orientation to communicate on tables)
5. [Shen et al. \(SHE2004a\)](#) [R] (DiamondSpin: rotate table top workspace; re-size based on position)
6. [Kruger et al. \(KRU2005a\)](#) [R] (Rotation and translation)
7. [Morris et al. \(MOR2006a\)](#) [R] (collaborative search on tables)
8. [Ha et al. \(HA2006a\)](#) [R] (stylus vs. mouse vs. direct touch on tabletop; naturalness, awareness of intent/action)
9. [Wigdor et al. \(WIG2007a\)](#) [R] (visual variable and perception on table and multi-surface displays)
10. [Geller \(GEL2006a\)](#) [R] (tabletops in museums and galleries)
11. [Tang et al. \(TAN2006a\)](#) [3] (collaborative coupling)
12. [Morris et al. \(RIN2004a\)](#) [R] (private audio channels with tabletop collaboration)
13. [Ha et al. \(HA2006a\)](#) [R] (direct vs. indirect input devices)
14. [Hancock and Carpendale \(HAN2007a\)](#) (off axis view in 3D)
15. [Leithinger and Haller \(LEI2007a\)](#) [R] (menus on cluttered tables)

5.3 Groupware

1. Gutwin and Greenberg (GUT2000a) [R] (mechanics of collaboration, low-cost CSCW evaluation methods)
2. Shen *et al.* (SHE2004a) [R] (DiamondSpin: freely-orientable tabletop groupware framework)
3. Morris *et al.* (RIN2004a) [R] (private audio channels with tabletop collaboration; table domination metric)
4. Morris *et al.* (MOR2004a) (coordination policies for groupware interaction)
5. Heer *et al.* (HER2007b) [r] (asynchronous collaborative visualization)
6. Heer and Agrawala (HER2007c) [r] (distributed collaborative vis guidelines)

5.4 Externalization Theory

1. Tweedie (TWE1997a) [1] (interaction as externalization)
2. Scaife and Rogers (SCA1996a) [1] (graphical representations as external cognition)
3. Rogers (ROG2004a) [1] (new theoretical paradigms in HCI)
4. Norman (NOR1993a) [r] (things that make us smart)
5. Licklider (LIC1960a) [r] (man-computer symbiosis; bleak predictions for AI)

5.5 Cognitive Science

1. Norman (NOR1976a) (memory & attention)
2. Ware (WAR2004b)
3. Pinker (PIN1997a)

5.6 Research Methods

1. Cairns (CAI2007a) [r] (inferential statistics for HCI)
2. Huges *et al.* (HUG1994a) (ethnography in system design)

Chapter 6

Information Retrieval

6.1 Indexing and storage

1. [Cohen \(COH1997a\)](#) [3] (hashing functions for n-grams; see RIB2000a)

Chapter 7

Miscellaneous

7.1 Theses

1. [Fry \(FRY2004a\)](#) [R]
2. [Fry \(FRY1997a\)](#) [2]
3. [Munzner \(MUN2000a\)](#) [2]

7.2 Statistics

1. [Gonic and Smith \(GON1993a\)](#) [r] (Cartoon statistics)

7.3 PhD Studies & Professional Development

1. [Sternberg \(STE1981a\)](#) (how to complete a doctoral dissertation)
2. [Reis \(REI1997a\)](#) (tomorrow's professor)
3. [Schmier \(SCH1995a,S\)](#) (random thoughts)

7.4 Programming

1. [Henry *et al.* \(HEN2008a\)](#) (logging)

7.5 Paper Writing and Research Design

1. [Munzner \(MUN2008a\)](#) [R;11:18–20] (infovis paper writing advice)

Bibliography

- Ahmed Abbasi and Hsinchun Chen. 2007. Categorization and analysis of text in computer mediated communication archives using visualization. In *Proc. of the Joint Conf. on Digital Libraries*, pages 11–18. ACM. 5
- Shane Ahern, Mor Naaman, Rahul Nair, and Jeannie Yang. 2007. World explorer: Visualizing aggregate data from unstructured text in geo-referenced collections. In *Proc. of the Joint Conf. on Digital Libraries*. ACM Press, June. 1, 9, 7
- Ryan Aipperspach. 2006. Visualization of social data from the home. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 11
- Robert Amar and John Stasko. 2004. A knowledge task-based framework for design and evaluation of information visualizations. In *Proc. of the IEEE Symp. on Information Visualization*, pages 143–149, October. 3, 4
- Robert A. Amar and John T. Stasko. 2005. Knowledge precepts for design and evaluation of information visualizations. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 11(4):432–439. 3, 4
- Rie Kubota Ando, Branimir K. Boguraev, Roy J. Byrd, and Mary S. Neff. 2000. Multi-document summarization by visualizing topical content. In *Proc. of the NAACL Workshop on Automatic Summarization*, pages 79–97. 1
- Keith Andrews. 2006. Evaluating information visualizations. In *Proc. of BELIV 2006*. 8
- Keith Andrews and Helmut Heidegger. 1998. Information slices: Visualising and exploring large hierarchies using cascading, semi-circular discs. In *Proc. of IEEE Symp. on Information Visualization (InfoVis), Late Breaking Hot Topics*, pages 9–12. 11

- Georg Apitz and François Guimbretière. 2004. CrossY: A crossing-based drawing application. In *Proc. of the ACM Symposium on User Interface Software and Technology*. 7
- Caroline Appert and Jean-Daniel Fekete. 2006. Orthozoom scroller: 1d multi-scale navigation. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*. ACM Press, April. 14, 11
- Aleks Aris and Ben Shneiderman. 2007. Designing semantic substrated for visual network exploration. *Information Visualization*, November. Advance online publication. 4
- M. Pauline Baker and Colleen Bushell. 1995. After the storm: Considerations for information visualization. *IEEE Computer Graphics and Applications*, 15(3):12–15, May. 5
- Michelle Q. Wang Baldonado, Allison Woodruff, and Allan Kuchinsky. 2000. Guidelines for using multiple views in information visualization. In *Proc. of the ACM Conf. on Advanced Visual Interfaces*. 6, 15
- Michael Balzar, Andreas Noach, Oliver Deussen, and Claus Lewerentz. 2004. Software landscapes: Visualizing the structure of large software systems. In O. Deussen, C. Hansen, D. A. Keim, and D. Saupe, editors, *Proc. of Eurographics/IEEE-VGTC Symp. on Visualization*. 7
- Michael Balzer and Oliver Deussen. 2007. Level-of-detail visualization of clustered graph layouts. In *Proc. of the Asia-Pacific Symposium on Visualization*, pages 133–140. 6, 6
- Satanjeev Banerjee and Ted Pedersen. 2002. An adapted lesk algorithm for word sense disambiguation using wordnet. In *Proc. of the Third Int. Conf. on Intelligent Text Processing and Computational Linguistics*, pages 136–145. See also PED0000a. 7
- C. Barrière and C. St-Jacques. 2005. Semantic context visualization to promote vocabulary learning. In *ACH-ALLC 2005*, pages 10–12. NRC. Association for Computers in the Humanities & Association for Literary and Linguistic Computing Conference. 1
- G. D. Battista, P. Eades, R. Tamassia, and I. G. Tollis. 1999. *Graph Drawing: Algorithms for the Visualization of Graphs*. Prentice Hall. 1, 6

- Daniel Bauer, Pierre Fastrez, and Jim Hollan. 2005. Spatial tools for managing personal information collections. In *Proc. of the Hawaii Int. Conf. on System Sciences (HICSS)*, page 104.2.
- Vivien Beattie and Michael John Jones. 2002. The impact of graph slope on rate of change judgements in corporate reports. *ABACUS*, 38(2):177–199. 9
- Jacques Bertin. 1983. *Semiology of Graphics: Diagrams, Networks, Maps*. University of Wisconsin Press. 4
- Enrico Bertini, Catherine Plaisant, and Giuseppe Santucci. 2007. Beyond time and errors; novel evaluation methods for information visualization. *Interactions*, pages 59–60, May–June. 7
- Enrico Bertini and Giuseppe Santucci. 2006. Visual quality metrics. In *Proc. of BELIV 2006*. 11
- S.R.K. Branavan, Pawan Deshpande, and Regina Barzilay. 2007. Generating a table-of-contents. In *Proc. of the Annual Meeting of the Association for Computational Linguistics*, pages 544–551. Association for Computational Linguistics, June. 2
- Richard Brath, Mike Peters, and Rovin Senior. 2005. Visualization for communication: The importance of aesthetic sizzle. In *Proc. of the IEEE Symp. on Information Visualization*, November. 8
- Mark Bruls, Kees Huizing, and Jarke J. van Wijk. 2000. Squarified Treemaps. In W. deLeeuw and R. van Liere, editors, *Proc. of Eurographics/IEEE-VGTC Symp. on Visualization*, pages 33–42. Springer. 3
- Christoph Buchheim, Michael Jünger, and Sebastian Leipert. 2002. Improving walker’s algorithm to run in linear time. In *Proc. of the Int. Symp. on Graph Drawing*, number 2528 in LNCS, pages 344–353. Springer. 19
- Raluca Budi, Peter Pirolli, and Michael Fleetwood. 2006. Navigation in degree of interest trees. In *Proc. of International Working Conference on Advanced Visual Interfaces*, pages 457–462. 5
- Paul Cairns. 2007. Hci.. not as it should be: Inferential statistics in hci research. In *Proc. of HCI*. British Computer Society. 1
- M.S.T. Carpendale. 2003. Considering visual variables as a basis for information visualisation. Technical Report 2001-693-16, Department of Computer Science, University of Calgary, Calgary, Canada. 5

- Sheelagh Carpendale, John Light, and Eric Pattison. 2004. Achieving higher magnification in context. In *Proc. of ACM Symp. on User Interface Software and Technology*. ACM, October. 1
- Olivier Chapulis and Nicolas Roussel. 2005. Metisse is not a 3d desktop! In *Proc. of UIST*, pages 13–22. ACM, October. 2
- Chaomei Chen. 2005. Top 10 unsolved informatin visualization problems. *IEEE Computer Graphics and Applications*, July/August. 11
- Chaomei Chen. 2006. Citespace II: Detecting and visualizing emerging trends and transient patterns in scientific literature. *Journal of the American Society for Information Science and Technology*, 57(3):359–377. 3, 14
- Lynn Cherny. 2006. Livejournal network posting among “friends”. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 10
- William S. Cleveland and Robert McGill. 1984. Graphical perception: Theory, experimentation, and application to the development of graphical methods. *Journal of the American Statistical Association*, 79(387):531–554, September. 4, 1
- Andy Cockburn, Carl Gutwin, and Jason Alexander. 2006. Faster document navigation with space-filling thumbnails. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*, pages 1–10. ACM Press. 11
- Jonathan D. Cohen. 1997. Recursive hashing functions for n-grams. *ACM Transactions on Information Systems*, 15(3):291–320. 1, 1
- Christopher Collins, Sheelagh Carpendale, and Gerald Penn. 2007. Visualization of uncertainty in lattices to support decision-making. In *Proc. of Eurographics/IEEE-VGTC Symp. on Visualization*. Eurographics, May. 2, 5
- Paul Cook and Suzanne Stevenson. 2006. Classifying particle semantics in English verb-particle constructions. In *Proc. of the ACL/COLING Workshop on Multiword Expressions: Identifying and Exploiting Underlying Properties (MWE 2006)*. 1
- Brock Craft and Paul Cairns. 2005. Beyond guidelines: What can we learn from the visual information seeking mantra. In *Proc. of the Int. Conf. on Information Visualization*. 10
- John Cugini, Christina Piatko, and Sharon Laskowski. 1996. Interactive 3d visualization for document retrieval. In *Proc. of the Workshop on New Paradigms in*

- Information Visualization and Manipulation, ACM Conference on Information and Knowledge Management*, November. 3
- Steve DeNeeffe, Kevin Knight, and Hayward H. Chan. 2005. Interactively exploring a machine translation model. In *Proc. Annual Meeting of the Assoc. for Computational Linguistics, Poster Session*. 4
- Brian M. Dennis. 2006. BlogScapes: Envisioning weblog text for retrospection. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 2, 1
- Andreas Dieberger and Daniel M. Russell. 2001. Context lenses — document visualization and navigation tools for rapid access to detail. In *Proc. of INTERACT 2001*. 7, 7, 6
- Xiaowen Ding, Bing Liu, and Philip S. Yu. 2008. A holistic lexicon-based approach to opinion mining. In *Proc. of the Int. Conf. on Web Search and Web Data Mining*, pages 231–240. ACM. 5, 1
- Anthony Don, Elena Zheleva, Machon Gregory, Sureyya Tarkan, Loretta Auvil, Tanya Clement, Ben Shneiderman, and Catherine Plaisant. 2007. Discovering interesting usage patterns in text collections: Integrating text mining with visualization. In *Proc. of the Conf. on Information and Knowledge Management*. 13, 2
- Judith Donath. 2002. A semantic approach to visualizing online conversations. *Communications of the ACM*, 45(4):45–49, April. 3
- Judith Donath, Karrie Karahalios, and Fernanda Viégas. 1999. Visualizing conversation. In *Proc. of the Thirty-Second Annual International Conference on Systems Sciences*. IEEE, July. 4
- Paul R. Dunn. 2007. Visuwords online graphical dictionary [online, cited 27 April, 2007]. Available from: <http://visuwords.com>. 4
- Ted Dunning. 1993. Accurate methods for the statistics of surprise and coincidence. *Computational Linguistics*, 19(1):61–74. 3
- Tim Dwyer. 2004. *Two-and-a-Half-Dimensional Visualization of Relational Networks*. Ph.D. thesis, University of Sydney, September. 4, 4
- Tim Dwyer, Kim Marriott, Falk Schreiber, Peter J. Stuckley, Michael Woodward, and Michael Wybrow. 2008. Exploration of networks using overview+detail with constraint-based cooperative layout. *IEEE Transactions on Visualization*

- and *Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 14(6):1293–1300, November/December. 17, 10
- Peter Eades. 1992. Drawing free trees. *Bulletin of the Institute for Combinatorics and its Applications*, 5:10–36. 9
- Ryan Eccles, Thomas Kapler, Robert Harper, and William Wright. 2007. Stories in geotime. In *Proc. of the IEEE Symp. on Visual Analytics Science and Technology (VAST)*, pages 19–26, October. 4, 2
- Marjus Eiglsperger, Martin Siebenhaller, and Michael Kaufmann. 2005. An efficient implementation of sugiyama’s algorithm for layered graph drawing. *Journal of Graph Algorithms and Applications*, 9(3):305–325. 15
- Geoffrey Ellis and Alan Dix. 2006. An explorative analysis of user evaluation studies in information visualization. In *Proc. of BELIV 2006*. 9
- Thomas Erickson, Wendy A. Kellogg, Mark Laff, Jeremy Sussman, Tracee Vetting Wolf, Christina A. Halverson, and Denise Edwards. 2006. A persistent chat space for work groups: The design, evaluation and deployment of loops. In *Proc. of Designing Interactive Systems (DIS)*, June. 1
- Jean-Daniel Fekete. 2004. The infoVis toolkit. In *Proc. of the IEEE Symp. on Information Visualization*, pages 167–174. IEEE Press. 1
- Jean-Daniel Fekete and Nicole Dufournaud. 2000. Compus visualization and analysis of structured documents for understanding social life in the 16th century. In *Proc. of the Joint Conf. on Digital Libraries*. ACM. 17, 4
- Jean-Daniel Fekete and Catherine Plaisant. 1999. Excentric labeling: Dynamic neighborhood labeling for data visualization. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*, pages 512–519. ACM Press, May. 2
- Jean-Daniel Fekete and Catherine Plaisant. 2002. Interactive information visualization of a million items. In *Proc. of the IEEE Symp. on Information Visualization*. 4, 1, 1, 1
- Jean-Daniel Fekete, David Wang, Niem Dang, Aleks Aris, and Catherine Plaisant. 2003. Overlaying graph links on Treemaps. In *Proc. of IEEE Symp. on Information Visualization, Poster Session*, pages 82–83. 5
- Andrew T. Fiore. 2006. Revealing communication patterns in an online dating system. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 2

- Danyel Fisher. 2006. Ask not for whom the visualization is rendered; it is rendered for thee. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 4, 7
- Edward A. Fox, Fernando Das Neves, Xiaoyan Yu, Rao Shen, Seonho Kim, and Weiguo Fan. 2006. Exploring the computing literature with visualization and stepping stones & pathways. *Communications of the ACM*, 49(4):53–58, April. 12, 5
- Ralph Freese. 2004. *Concept Lattices*, volume 2961 of *Lecture Notes in Computer Science*, chapter Automated Lattice Drawing, pages 112–127. Springer-Verlag. 4
- Wolfgang Freiler, Kresšimir Matković, and Helwig Hauser. 2008. Interactive visual analytics of set-typed data. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Conf. on Information Visualization)*, 14(6):1340–1347, November/December. 1
- Benjamin Fry. 1997. Organic information design. Master’s thesis, Massachusetts Institute of Technology. 2, 2
- Benjamin Fry. 2004. *Computational Information Design*. Ph.D. thesis, Massachusetts Institute of Technology. 1, 1
- Atsushi Fujii and Tetsuya Ishikawa. 2006. A system for summarizing and visualizing arguments in subjective documents: Toward supporting decision making. In *Proc. of the Workshop on Sentiment and Subjectivity in Text*, pages 15–22. ACL. 2, 1
- Tom Geller. 2006. Interactive tabletop exhibits in museums and galleries. *IEEE Computer Graphics and Applications*, 26(5):6–11. 10
- Ulrich Germann. 2003. Greedy decoding for statistical machine translation in almost linear time. In *Proc. of HLT/NAACL*. 1
- Mohammad Ghoniem, Jean-Daniel Fekete, and Philippe Castagliola. 2004. A comparison of the readability of graphs using node-link and matrix-based representations. In *Proc. of the IEEE Symp. on Information Visualization*. 1
- Larry Gonic and Woollcott Smith. 1993. *The Cartoon Guide to Statistics*. Harper-Collins. 1
- Victor González and Alfred Kobsa. 2003. A workplace study of the adoption of information visualization systems. In *Proc. of the Int. Conf. on Knowledge Management*, pages 92–102. 4

- Michelle L. Gregory, Nancy Chinchor, Paul Whitney, Richard Carter, Elizabeth Hetzler, and Alan Turner. 2006. User-directed sentiment analysis: Visualizing the affective content of documents. In *Proc. of the Workshop on Sentiment and Subjectivity in Text*, pages 23–30. ACL. 3, 3
- Yves Guiard, Michel Beaudouin-Lafon nad YangzhouDu, Caroline Appert, Jean-Daniel Fekete, and Olivier Chapuis. 2006. Shakespeare’s complete works as a benchmark for evaluating multiscale document navigation techniques. In *Proc. of BELIV 2006*. 10, 10
- François Guimbretière and Terry Winograd. 2000. Flowmenu: combining command, text, and data entry. In *Proc. of the ACM Symposium on User Interface Software and Technology*, pages 213–216. ACM Press. 4
- Carl Gutwin and Saul Greenberg. 2000. The mechanics of collaboration: Developing low cost usability evaluation methods for shared workspaces. In *Proc. of IEEE 9th International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises*, pages 98–103. 3, 1
- Vicki Ha, Kori M. Inkpen, Regan L. Mandryk, and Tara Wilson. 2006. Direct intentions: The effects of input devices on collaboration around a tabletop display. In *Proc. of IEEE Int. Workshop on Horizontal Interactive Human-Computer Systems (TABLETOP ’06)*, January. 3, 8, 13
- Khaled M. Hammouda and Mohamed S. Kamel. 2003. Incremental document clustering using cluster similarity histograms. In *Proc. of IEEE/WIC Int. Conf. on Web Intelligence*. 8, 8
- Mark Hancock and Sheelagh Carpendale. 2007. Supporting multiple off-axis viewpoints in a tabletop display. In *Proc. of the IEEE Int. Workshop on Horizontal Interactive Human-Computer Systems (TABLETOP)*. 14
- Susan Havre, Elizabeth Hetzler, Paul Whitney, and Lucy Nowell. 2002. ThemeRiver: visualizing thematic changes in large document collections. *IEEE Transactions on Visualization and Computer Graphics*, 8, January. 1, 15
- Marti A. Hearst. 1995. Tilebars: visualization of term distribution information in full text information access. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*, pages 59–66. ACM Press. 2
- Jeffrey Heer. 2006. Socializing visualization. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 12

- Jeffrey Heer and Maneesh Agrawala. 2006. Software design patterns for information visualization. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 12(5), Sept./Oct. 12
- Jeffrey Heer and Maneesh Agrawala. 2007. Design considerations for collaborative visual analytics. In *Proc. of the IEEE Symp. on Visual Analytics Science and Technology (VAST)*. 2, 13, 6
- Jeffrey Heer, Stuart K. Card, and James A. Landay. 2005. prefuse: a toolkit for interactive information visualization. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*. ACM Press, April. 3
- Jeffrey Heer and danah boyd. 2005. Vizster: Visualizing online social networks. In *Proc. of the IEEE Symp. on Information Visualization*. 5, 15
- Jeffrey Heer, Fernanda B. Viégas, and Martin Wattenberg. 2007. Voyagers and voyeurs: Supporting asynchronous collaborative information visualization. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*. 1, 1, 1, 5
- Christian Heine and Gerik Scheuermann. 2007. Manual clustering refinement using interaction with blobs. In *Proc. of Eurographics/IEEE-VGTC Symp. on Visualization*. The Eurographics Association. 3, 2
- Nathalie Henry, Niklas Elmqvist, and Jean-Daniel Fekete. 2008. A methodological note on setting-up logging and replay mechanisms in infovis systems. In *Proc. of BELIV 2008 (note)*, pages 64–65. 1
- Nathalie Henry and Jean-Daniel Fekete. 2006. MatrixExplorer: a dual-representation system to explore social networks. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 12(5), September-October. 5, 2, 9
- Todd Holloway, Miran Božičević, and Katy Börner. 2006. Analyzing and visualizing the semantic coverage of wikipedia and its authors. Submitted to *Complexity*, Special Issue on Understanding Complex Systems. 9, 6, 13
- Danny Holten. 2006. Hierarchical edge bundles: Visualization of adjacency relations in hierarchical data. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 12(5):741–748, Sept.–Oct. 4, 3, 2, 3, 7
- Shiping Huang, Matthew O. Ward, and Elke A. Rundensteiner. 2005. Exploration of dimensionality reduction for text visualization. In *Proc. of the Third Int. Conf. on Coordinated & Multiple Views in Exploratory Visualization*. 1

- John Huges, Val King, Tom Rodden, and Hans Andersen. 1994. Moving out from the control room: Ethnography in system design. In *Proc. of the ACM Conf. on Computer Supported Cooperative Work*, pages 429–439. 5, 14, 2
- Rieko Inaba, Yohei Murakami, Akiyo Nadamoto, and Toru Ishida. 2007. Multilingual communication support using the language grid. In *Proc. of the Int. Workshop on Intercultural Collaboration*. 3
- Johannes Itten. 1974. *The Art of Color: the Subjective Experience and Objective Rationale of Color*. John Wiley and Sons. Translated by Ernst van Hagen. 6
- Hyungsuk Ji, Sabine Ploux, and Eric Wehrli. 2003. Lexical knowledge representation with contextonyms. In *Proc. of 9th MT Summit*, pages 194–201. 6, 6
- Brian Johnson and Ben Shneiderman. 1991. Tree-maps: a space-filling approach to the visualization of hierarchical information structures. In *Proc. of IEEE Visualization*, pages 284–291. IEEE Computer Society. 4
- Chris R. Johnson and Allan R. Sanderson. 2003. A next step: Visualizing errors and uncertainty. *IEEE Computer Graphics and Applications*, 23:6–10, September. 1
- Jaap Kamps and Maarten Marx. 2002. Words with attitude. In *Proc. of the 11th International Conference on Global WordNet*, pages 332–341. 5, 5, 6, 4
- Jaap Kamps, Maarten Marx, Robert J. Mokken, and Maarten de Rijke. 2004. Using wordNet to measure semantic orientation of adjectives. In *Proc. of the 4th Annual Conference on Language Resources and Evaluation (LREC)*, pages 1115–1118. 2, 2
- Thomas Kapler and William Wright. 2005. Geotime information visualization. *Information Visualization*, 4:136–146. 4, 3
- Sebastian Kempken, Thomas Pilz, and Wolfram Luther. 2007. Visualization of rule productivity in deriving non-standard spellings. In *Proc. of SPIE-IS&T Electronic Imaging (VDA '07)*, volume 6495. 1, 5
- Jon Kleinberg. 2002. Bursty and hierarchical structures in streams. In *Proce. of ACM Int. Conf. on Knowledge Discovery and Data Mining*. 2
- Kevin Knight. 1999. A statistical mt tutorial workbook, April. 2
- Robert Kosara, Fritz Drury, Lars Erik Holmquist, and David H. Laidlaw. 2008. Visualization criticism. *IEEE Computer Graphics and Applications*, 28(3):13–15. 15

- Robert Kosara, Silvia Miksch, and Helwig Hauser. 2001. Semantic depth of field. In *Proc. of the IEEE Symp. on Information Visualization*. 3, 1
- Russell Kruger, Sheelagh Carpendale, Stacey D. Scott, and Saul Greenberg. 2003. How people use orientation on tables: Comprehension, coordination and communication. In *Proc. of ACM SIGGROUP Conference on Supporting Group Work*, pages 369–378. ACM Press. 6, 4
- Russell Kruger, Sheelagh Carpendale, Stacey D. Scott, and Anthony Tang. 2005. Fluid integration of rotation and translation. In *Proc. of the SIGCHI Conference on Human Factors in Computing Systems*, pages 601–610. ACM Press, April. 1, 6
- William L. Kuechler. 2007. Business applications of unstructured text. *Communications of the ACM*, 50(10):86–93, October. 2
- Thomas K. Landauer, Peter W. Foltz, and Darrell Laham. 1998. An introduction to latent semantic analysis. *Discourse Processes*, 25:259–284. 1
- Bongshin Lee, Mary Czerwinski, George Robertson, and Benjamin B. Bederson. 2007. Understanding research trends in conferences using paperlens. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems: Short Papers*, pages 1969–1972, April. 15, 13
- Bongshin Lee, George G. Robertson, Mary Czerwinski, and Cynthia Sims Parr. 2007. Candidtree: Visualizing structural uncertainty in similar hierarchies. *Information Visualization*, 6(3):233–246. 7, 14
- Daniel Leithinger and Michael Haller. 2007. Improving menu interaction for cluttered tabletop setups with user-drawn path menus. In *Proc. of the IEEE Int. Workshop on Horizontal Interactive Human-Computer Systems (TABLETOP)*. 15
- Anton Leuski, Chin-Yew Lin, and Eduard Hovy. 2003. iNeATS: Interactive multi-document summarization. In *Proc. of the Annual Meeting of the Association for Computational Linguistics*, Interactive Posters and Demos Session, July. 1, 2
- Hang Li and Naoki Abe. 1988. Generalizing case frames using a thesaurus and the MDL principle. *Computational Linguistics*, 24(2):217–244. 2, 7, 5
- J. C. R. Licklider. 1960. Man–computer symbiosis. *IRE Transactions on Human Factors in Electronics*, HFE-1:4–11. 5

- John Light and J.D. Miller. 2002. Miramar: A 3d workplace. In *Proc. of IEEE Intl. Professional Communication Conf.*, pages 271–282. 2
- Dekang Lin. 1999. Automatic identification of non-compositional phrases. In *Proc. of the 37th Annual Meeting of the Association for Computational Linguistics*. Association for Computational Linguistics. 1
- Peng Liu and Frank K. Soong. 2006. Word graph based speech recognition error correction by handwriting input. In *Proc. of the International Conference on Multimodal Interfaces*, pages 339–346, November. 3
- Vincent Di Lollo, Jun ichiro Kawahara, Samantha M. Zuvic, and Trow A. W. Visser. 2001. The preattentive emperor has no clothes: A dynamic redressing. *Journal of Experimental Psychology: General*, 130(3):479–492. 7
- Erik Loyer, Eric Rodenbeck, Tomas Apodaca, Michal Migurski, , and N. Katherine Hayles. 2005. Narrating bits. *Vectors Journal of Culture and Technology*, 1(1). Available from: http://vectors.usc.edu/narrating_bits. 5
- Christopher D. Manning, Kevin Jansz, and Nitin Indurkha. 2001. Kirrkirr: Software for browsing and visual exploration of a structured walpiri dictionary. *Literary and Linguistic Computing*, 16(2):135–151. 3, 3, 2
- Gloria Mark, Keri Carpenter, and Alfred Kobsa. 2003. A model of synchronous collaborative information visualization. In *Proc. of the Int. Conf. on Information Visualization*. 3, 2
- J. Marks, B. Andalman, P. A. Beardsley, W. Freeman, S. Gibson, J. Hodgins, and T. Kang. 1997. Design galleries: A general approach to setting parameters for computer graphics and animation. In *Proc. of the Int. Conf. on Computer Graphics and Interactive Techniques (SIGGRAPH)*, pages 389–400. ACM Press. 9
- Riccardo Mazza. 2006. Evaluating information visualization applications with focus groups: the coursevis experience. In *Proc. of BELIV 2006*. 10
- D. McCarthy, R. Koeling, J. Weeds, and J. Carroll. 2004. Automatic identification of infrequent word senses. In *Proc. of the Int. Conf. on Computational Linguistics (COLING)*, pages 1220–1226. 3, 2
- D. McCarthy, R. Koeling, J. Weeds, and J. Carroll. 2004. Finding predominant senses in untagged text. In *Proc. of the 42nd Annual Meeting of the Association for Computational Linguistics*, pages 280–287. 4, 3

- Saif Mohammad and Graeme Hirst. 2005. Determining word sense dominance using a thesaurus. In *Proc. of the 11th conference of the European chapter of the Association for Computational Linguistics (EACL-2006)*. 1
- Saif Mohammad and Graeme Hirst. 2006. Distributional measures of concept-distance: A task-oriented evaluation. In *Proc. of the Conference on Empirical Methods in Natural Language Processing (EMNLP-2006)*. 1
- Mohans Jean Mohammadi-Aragh and T. J. Jankun-Kelly. 2005. Moire-trees: Visualization and interaction for multi-hierarchical data. In *Proc. of Eurographics/IEEE-VGTC Symp. on Visualization*. 16, 5
- Robert C. Moore. 2004. On log-likelihood-ratios and the significance of rare events. In *Proc. of the Conf. on Empirical Methods in Natural Language Processing*. ACL. 1
- Mededith Ringel Morris, Dan Morris, and Terry Winograd. 2004. Individual audio channels with single display groupware: Effects on communication and task strategy. In *Proc. of Computer Supported Cooperative Work*. ACM. 12, 3
- Meredith Ringel Morris, Andreas Paepcke, and Terry Winograd. 2006. Team-search: Comparing techniques for co-present collaborative search of digital media. In *Proc. of IEEE Int. Workshop on Horizontal Interactive Human-Computer Systems (TABLETOP '06)*, January. 6, 7
- Meredith Ringel Morris, Kathy Ryall, Chia Shen, Clifton Forlines, and Frederic Vernier. 2004. Beyond “social protols”: Multi-user coordination policies for co-located groupware. In *Proc. of Computer-Supported Cooperative Work*, November. 4
- Josiane Mothe and Taoufiq Dkaki. 1998. Interactive multidimensional document visualization. In *Proc. of the ACM Conf. on Research and Development in Information Retrieval*. ACM Press. 6
- Tamara Munzner. 2000. *Interactive Visualizations of Large Graphs and Networks*. Ph.D. thesis, Stanford University. 2, 2, 3
- Tamara Munzner. 2008. Process and pitfalls in writing information visualization research papers. In *Lecture Notes in Computer Science*, volume 4950, pages 134–153. Springer-Verlag, Berlin. 1
- Tamara Munzner, Francois Guimbretière, Serdar Tasiran, Li Zhang, and Yunhong Zhou. 2003. Treejuxtaposer: Scalable tree comparison using focus+context with

- guaranteed visibilit. *ACM Transactions on Graphics*, 22(3):453–462. SIGGRAPH 2003. 3
- Robert Kosara nad Silvia Miksch. 2002. Focus+context taken literally. *Information Visualization*, pages 22–29, Jan./Feb. 1
- Petra Neumann, Sheelagh Carpendale, and Anand Agarawala. 2006. Phyllotrees: Phyllotactic patterns for tree layout. In *Proc. of IEEE-VGTC Symp. on Visualization*. 8
- Petra Neumann, Stefan Schlechtweg, and M. S. T. Carpendale. 2005. Arctrees: Visualizing relation in hierarchical data. In K. W. Brodlie, D. J. Duke, and K. I. Joy, editors, *Proc. of Eurographics/IEEE-VGTC Symp. on Visualization*, pages 53–60. The Eurographics Association. 1
- Carman Neustaedter. 2007. Qualitative data analysis. PowerPoint Slides, March. 1
- Donald A. Norman. 1976. *Memory and Attention: An Introduction to Human Information Processing*. John Wiley & Sons, 2nd edition. iLab copy. 1
- Donald A. Norman. 1993. *Things That Make Us Smart: Defending Human Attributes in the Age of the Machine*. Addison-Wesley Longman Publishing Co., Boston, USA. 4
- Chris North and Ben Shneiderman. 2000. Snap-together visualization: A user interface for coordinating visualizations via relational schemata. In *Proc. of Advanced Visual Interfaces*, pages 128–135, May. 8, 1
- Daniela Oelke, Peter Bak, Daniel A. Keim, Mark Last, and Guy Danon. 2008. Visual evaluation of text features for document summarization and analysis. In *Proc. of the IEEE Symp. on Visual Analytics Science and Technology (VAST)*, pages 75–82. 16, 7, 1
- Alex T. Pang, Craig M. Wittenbrink, and Suresh K. Lodha. 1997. Approaches to uncertainty visualization. *The Visual Computer*, 13(8):370–390. 4
- Bo Pang and Lillian Lee. 2004. A sentimental education: Sentiment analysis using subjectivity summarization based on minimum cuts. In *Association for Computational Linguistics*, pages 271–278. 6
- Kishore Papineni, Salim Roukos, Todd Ward, and Wei-Jing Zhu. 2002. Bleu: A method for automatic evaluation of machine translation. In *Proc. of the Annual Meeting of the Association for Computational Linguistics*, pages 311–318, July. 5

- Siddharth Patwardhan and Ted Pedersen. 2006. Using wordnet-based context vectors to estimate the semantic relatedness of concepts. In *Proc. of the EACL 2006 Workshop Making Sense of Sense – Bringing Computational Linguistics and Psycholinguistics Together*, pages 1–8, apr. 5
- Ted Pedersen, Satanjeev Banerjee, and Siddharth Patwardhan. 2005. Maximizing semantic relatedness to perform word sense disambiguation. Technical Report UMSI 2005/25, University of Minnesota Supercomputing Institute. 2, 4, 3
- Adam Perer and Ben Shneiderman. 2006. Balancing systematic and flexible exploration of social networks. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 12(5):693–700. 14
- Adam Perer and Ben Shneiderman. 2008. Integrating statistics and visualization: Case studies of gaining clarity during exploratory data analysis. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*. 14
- Adam Perer and Ben Shneiderman. 2008. Systematic yet flexible discovery: Guiding domain experts through exploratory data analysis. In *International Conference on Intelligent User Interfaces*. 14, 14
- D. Phan, L. Xiao, R. Yeh, P. Hanrahan, and T. Winograd. 2005. Flow map layout. In *Proc. of the IEEE Symp. on Information Visualization*, pages 219–224. 7, 4
- Steven Pinker. 1997. *How the Mind Works*. W. W. Norton & Co. iLab copy. 3
- Catherine Plaisant. 2004. The challenge of information visualization evaluation. In *AVI '04: Proc. of the working conference on Advanced Visual Interfaces*, pages 109–116. ACM Press. 2
- Catherine Plaisant, Brett Milash, Anne Rose, Seth Widoff, and Ben Shneiderman. 1996. LifeLines: Visualizing personal histories. In *Proc. of the SIGCHI Conference on Human Factors in Computing Systems*, pages 221–227. 1
- Catherine Plaisant, James Rose, Bei Yu, Loretta Auvil, Matthew G. Kirschenbaum, Martha Nell Smith, Tanya Clement, and Greg Lord. 2006. Exploring erotics in emily dickinson’s correspondence with text mining and visual interfaces. In *Proc. of the Joint Conference on Digital Libraries*. 4, 5
- Richard M. Reis. 1997. *Tomorrow’s Professor*. Wiley Interscience. personal copy. 2

- Magnus Rembold and Jürgen Späth. 2006. Graphical visualization of text similarities in essays in a book [online, cited 10 August, 2006]. Available from: http://www.munterbund.de/visualisierung_textaehnlichkeiten/essay.html. 4, 4
- Randy L. Ribler and Marc Abrams. 2000. Using visualization to detect plagiarism in computer science classes. In *Proc. of the IEEE Symp. on Information Visualization*, pages 173–178. IEEE Press. 3, 10, 6
- A. W. Rivadeneira, Daniel M. Gruen, Michael J. Muller, and David R. Millen. 2007. Getting our head in the clouds: toward evaluation studies of tagclouds. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*, pages 995–998, New York, NY, USA. ACM. 2
- George Robertson, Mary Czerwinski, Kevin Larson, Daniel C. Robbins, David Thiel, and Maarten van Dantzich. 1998. Data mountain: Using spatial memory for document management. In *Proc. of UIST*. ACM. 2
- Yvonne Rogers. 2004. New theoretical approaches for HCI. *Annual Review of Information Science and Technology*, 38(87–143). 3
- Randall M. Rohrer, John L. Sibert, and David S. Ebert. 1999. A shape-based visual interface for text retrieval. *IEEE Computer Graphics and Applications*, 19(5):40–47, September. 4
- Pruvi Saraiya, Chris North, and Karen Duca. 2005. An insight-based methodology for evaluating bioinformatics visualizations. *IEEE Transactions on Visualization and Computer Graphics*, 11(4):443–456. 3, 5
- Purvi Saraiya, Peter Lee, and Chris North. 2005. Visualization of graphs with associated timeseries data. In *Proc. of the IEEE Symp. on Information Visualization*, pages 225–232, October. 13, 9, 3
- Mike Scaife and Yvonne Rogers. 1996. External cognition: how do graphical representations work? *International Journal of Human-Computer Studies*, 45(2):185–213. 2
- Louis Schmier. 1995. *Random Thoughts: The Humanity of Teaching*. Magna. 3
- Louis Schmier. 2002. *Random Thoughts II: Teaching from the Heart*. Atwood. 3
- Stacey D. Scott, Karen D. Grant, and Regan L. Mandryk. 2003. System guidelines for co-located, collaborative work on a tabletop display. In *Proc. of European Conference on Computer Supported Cooperative Work*, September. 3, 1

- Chia Shen, Fr'ed'eric D. Vernier, Clifton Forlines, and Meredith Ringel. 2004. Diamondspin: An extensible toolkit for around-the-table interaction. In *Proc. of the SIGCHI Conference on Human Factors in Computing Systems*, pages 167–174. ACM Press, April. 2, 5, 2
- Ben Shneiderman. 2003. Why not make interfaces better than 3d reality? *IEEE Computer Graphics and Applications*, Nov/Dec:12–15. 1
- Ben Shneiderman and Aleks Aris. 2006. Network visualization by semantic substrates. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Symp. on Information Visualization)*, 12(5):733–740, Sept.–Oct. 4
- Ben Shneiderman and Catherine Plaisant. 2006. Strategies for evaluating information visualization tools: Multi-dimensional in-depth long-term case studies. In *Proc. of BELIV 2006*. 12
- Ben Shneiderman and Martin Wattenberg. 2001. Ordered Treemap layouts. In *Proc. of the IEEE Symp. on Information Visualization*. 2
- Noah A. Smith and Michael E. Jahr. 2000. Cairo: An alignment visualization tool. In *Proc. of the Int. Conf. on Language Resources and Evaluation*, pages 549–552. 2
- John Stasko, Carsten Görg, Zhicheng Liu, and Kanupriya Singhal. 2007. Jigsaw: Supporting investigative analysis through interactive visualization. In *Proc. of the IEEE Symp. on Visual Analytics Science and Technology (VAST)*, pages 131–138. 3
- John Stasko and Eugene Zhang. 2000. Focus+context display and navigation techniques for enhancing radial, space-filling hierarchy visualizations. In *Proc. of the IEEE Symp. on Information Visualization*, pages 57–65. 10
- David Sternberg. 1981. *How to Complete and Survive a Doctoral Dissertation*. St. Martin's Press. personal copy. 1
- Maureen Stone. 2005. Representing color as three numbers. *IEEE Computer Graphics and Applications*, July/August. 2
- Maureen Stone. 2006. Color in information display tutorial notes. Presented at IEEE Symposium on Information Visualization, October. Available from: <http://www.stonesc.com/Vis06>. 1
- Maureen C. Stone. 2003. *A Field Guide to Digital Color*. AK Peters, Ltd. 3

- Bongwon Suh, Allison Woodruff, Ruth Rosenholtz, and Alyssa Glass. 2002. Popout Prism: Adding perceptual principles to overview+detail document interfaces. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*. ACM Press. 12
- Anthony Tang, Melanie Tory, Barry Po, Petra Neumann, and Sheelagh Carpendale. 2006. Collaborative coupling over tabletop displays. In *Proc. of the SIGCHI Conference on Human Factors in Computing Systems*, pages 1181–1190. ACM, April. 11
- Annie Tat and Sheelagh Carpendale. 2006. CrystalChat: Visualizing personal chat history. In *Proc. of the Hawaii Int. Conf. on System Sciences (HICSS)*. 2
- Annie Tat and Sheelagh Carpendale. 2006. Visualizing digital text conversations. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 6
- Kilian Thiel, Fabian Dill, Tobias Kötter, and Michael R. Berthold. 2007. Towards visual exploration of topic shifts. In *Proc. of IEEE Int. Conf. on Systems, Man, and Cybernetics*, pages 522–527. 11
- Noriko Tomuro. 2000. Automatic extraction of systematic polysemy using tree-cut. In *NAACL-ANLP 2000 Workshop on Syntactic and Semantic Complexity in Natural Language Processing Systems*, volume 1, pages 20–27. Association for Computational Linguistics. 1
- Melanie Tory and Torsten Möller. 2005. Evaluating visualizations: Do expert reviews work? *IEEE Computer Graphics and Applications*, 25(5):8–11, Sept./Oct. 13
- Lisa Tweedie. 1997. Characterizing interactive externalizations. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*, pages 375–382. ACM. 1
- Northwestern University. 2008. Comparing word form counts (wordhoard help). Website. Practical algorithm for log-likelihood-ratio calculation. Available from: <http://wordhoard.northwestern.edu/userman/analysis-comparewords.html>. 4
- P. Valtchev, D. Grosser, C. Roume, and M. Rouane Hacene. 2003. Galicia: an open platform for lattices. In Aldo de Moor, Wilfried Lex, and Bernhard Ganter, editors, *Contributions to the 11th Conference on Conceptual Structures*, pages 241–254. Verlag Shaker. 1

- Frank van Ham and Jarke van Wijk. 2004. Interactive visualization of small world graphs. In *Proc. of the IEEE Symp. on Information Visualization*, pages 199–206. 18, 4
- Gina Venolia. 2006. Ligature: Combining node-and-link graph rendering with a timeline for sensemaking in software development repositories. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 3
- Fernanda B. Viégas, Martin Wattenberg, and Kushal Dave. 2004. Studying cooperation and conflict between authors with history flow visualizations. In *Proc. of the SIGCHI Conf. on Human Factors in Computing Systems*, pages 575–582. ACM Press. 3, 7
- Fernanda B. Viégas, Martin Wattenberg, Jesse Kriss, and Frank van Ham. 2007. Talk before you type: coordination in Wikipedia. In *Proc. of the Hawaii Int. Conf. on System Sciences (HICSS)*. 3, 8
- Fernanda B. Viégas, Martin Wattenberg, Matt McKeon, Frank van Ham, and Jesse Kriss. 2008. Harry potter and the meat-filled freezer: A case study of spontaneous usage of visualization tools. In *Proc. of the Hawaii Int. Conf. on System Sciences (HICSS)*, pages 159–169. 5, 1
- Ellen M. Voorhees. 1993. Using wordnet to disambiguate word senses for text retrieval. In *Proc. of ACM SIGIR*, pages 171–180. 5
- Colin Ware. 2004. *Information Visualization: Perception for Design*. Morgan Kaufmann, 2nd edition. 3, 4, 2
- Nayuko Watanabe, Motoi Washida, and Takeo Igarashi. 2007. Bubble clusters: An interface for manipulating spatial aggregation of graphical objects. In *Proc. of ACM Symp. on User Interface Software and Technology*. ACM, October. 2, 5
- Martin Wattenberg. 2006. Extremes of social visualization in art. In *Proc. of Social Visualization: Exploring Text, Audio, and Video Interactions, Workshop at CHI 2006*, June. 5
- Martin Wattenberg and Danyel Fisher. 2004. Analyzing perceptual organization in information graphics. *Information Visualization*, 3:123–133, March. 10
- Janyce Wiebe and Ellen Riloff. 2005. Creating subjective and objective sentence classifiers from unannotated texts. In A. Gelbukh, editor, *Proc. of CICLing 2005*, pages 486–497. Springer-Verlag. 2

- Daniel Wigdor and Ravin Balakrishnan. 2005. Empirical investigation into the effect of orientation on text readability in tabletop displays. In *Proc. of European Conference on Computer-Supported Cooperative Work*, pages 205–224. Springer, September. 5, 2, 3
- Daniel Wigdor, Chia Shen, Clifton Forlines, and Ravin Balakrishnan. 2007. Perceptions of elementary graphical element in tabletop and multi-surface environments. In *Proc. of the SIGCHI Conference on Human Factors in Computing Systems*. 9, 8, 9
- Wesley Willett, Jeffrey Heer, and Maneesh Agrawala. 2007. Scented widgets: Improving navigation cues with embedded visualizations. *IEEE Transactions on Visualization and Computer Graphics (Proc. of the IEEE Conf. on Information Visualization)*. 4, 8
- James A. Wise, James J. Thomas, Kelly Pennock, David Lantrip, Marc Pottier, Anne Schur, and Vern Crow. 1995. Visualizing the non-visual: spatial analysis and interaction with information for text documents. In S. K. Card and J. D. Mackinlay, editors, *Readings in Information Visualization: Using Vision to Think*, pages 442–450. Morgan Kaufmann Publishers Inc., San Francisco, USA. 1
- Jeremy M. Wolfe. 2003. Moving towards solutions to some enduring controversies in visual search. *Trends in Cognitive Sciences*, 7(2):70–76. 6
- Nelson Wong, Sheelagh Carpendale, and Saul Greenberg. 2003. EdgeLens: An interactive method for managing edge congestion in graphs. In *Proc. of the IEEE Symp. on Information Visualization*, pages 51–58. 5
- Jing Yang, Matthew O. Ward, and Elke A. Rundensteiner. 2002. InterRing: An interactive tool for visually navigating and manipulating hierarchical structures. In *Proc. of the IEEE Symp. on Information Visualization*, pages 77–84. 12
- Shengdong Zhao, Michael J. McGuffin, and Mark H. Chignell. 2005. Elastic Hierarchies: Combining Treemaps and node-link diagrams. In *Proc. of the IEEE Symp. on Information Visualization*, November. 6
- Torre Zuk. 2005. Uncertainty visualization. PhD Research Proposal, April. 6
- Torre Zuk and Sheelagh Carpendale. 2006. Theoretical analysis of uncertainty visualizations. In Robert F. Erbacher, Johnathan C. Roberts, Matti T. Gröhn, and Katy Börner, editors, *Proc. of SPIE-IS&T Electronic Imaging*, volume 6060, 606007. 2, 6