

IEEE VIS'18 TUTORIAL "COMPARATIVE VISUALIZATION"

REFERENCES

1. *Obtaining the c4.5 code*, C4.5 (J. ROSS QUINLAN, ed.), Morgan Kaufmann, San Francisco (CA), 1993, pp. ix – x.
2. *Tasks*, pp. 47–161, Springer Berlin Heidelberg, Berlin, Heidelberg, 2006.
3. Saeed Aghabozorgi, Ali Seyed Shirkhorshidi, and Teh Ying Wah, *Time-series clustering a decade review*, *Information Systems* **53** (2015), 16 – 38.
4. Christopher Ahlberg and Staffan Truvé, *Tight coupling: Guiding user actions in a direct manipulation retrieval system*, Proceedings of the HCI'95 Conference on People and Computers X (New York, NY, USA), HCI '95, Cambridge University Press, 1995, pp. 305–321.
5. Jae-wook Ahn, Catherine Plaisant, and Ben Shneiderman, *A task taxonomy for network evolution analysis*, *TVCG* **20** (2014), no. 3, 365–376.
6. Wolfgang Aigner, Silvia Miksch, Heidrun Schumann, and Christian, *Visualization of time-oriented data*, Springer, 2011.
7. D. Albers, C. Dewey, and M. Gleicher, *Sequence surveyor: Leveraging overview for scalable genomic alignment visualization*, *IEEE TVCG* **17** (2011), no. 12, 2392–2401.
8. E. Alexander and M. Gleicher, *Task-driven comparison of topic models*, *IEEE Transactions on Visualization and Computer Graphics* **22** (2016), no. 1, 320–329.
9. Basak Alper, Benjamin Bach, Nathalie Henry Riche, Tobias Isenberg, and Jean-Daniel Fekete, *Weighted graph comparison techniques for brain connectivity analysis*, Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (New York, NY, USA), CHI '13, ACM, 2013, pp. 483–492.
10. Stephen F. Altschul, Warren Gish, Webb Miller, Eugene W. Myers, and David J. Lipman, *Basic local alignment search tool*, *Journal of Molecular Biology* **215** (1990), no. 3, 403 – 410.
11. James L. Alty and Roger P. Knott, *Metaphor and human-computer interaction: A model based approach*, *Computation for Metaphors, Analogy, and Agents* (Christopher Nehaniv, ed.), LNCS, vol. 1562, Springer, 1999, pp. 307–321.
12. George A. Alvarez and Patrick Cavanagh, *The capacity of visual short-term memory is set both by visual information*, *Psychological science* **15** (2004), no. 2, 106–111.
13. Robert Amar, James Eagan, and John Stasko, *Low-level components of analytic activity in information visualization*, *IEEE InfoVis, IEEE*, 2005, pp. 111–117.
14. K. Andrews, M. Wohlfahrt, and G. Wurzing, *Visual graph comparison*, 2009 13th International Conference Information Visualisation (IV), vol. 00, 07 2009, pp. 62–67.
15. Gennady Andrienko, Natalia Andrienko, Sebastian Bremm, Tobias Schreck, Tatiana von Landesberger, Peter Bak, and Daniel A. Keim, *Space-in-time and time-in-space self-organizing maps for exploring spatiotemporal patterns*, *CGF* **29** (2010), no. 3, 913–922.
16. Natalia Andrienko, Gennady Andrienko, and Peter Gatalsky, *Data and task characteristics in design of spatio-temporal data visualization*, *Symp. Geospatial Theory, Processing, and App.*, 2002, pp. 40–55.
17. ———, *Exploratory spatio-temporal visualization: an analytical review*, *Journal of Visual Languages & Computing* **14** (2003), no. 6, 503–541.
18. D. Archambault and H. C. Purchase, *The mental map and memorability in dynamic graphs*, *IEEE PacificVis*, Feb 2012, pp. 89–96.
19. Daniel Archambault, *Structural differences between two graphs through hierarchies*, *Graphics Interface*, 2009, pp. 87–94.
20. Daniel Archambault, Helen C. Purchase, and Bruno Pinaud, *Animation, small multiples, and the effect of mental map preservation*, *IEEE TVCG* **17** (2011), no. 4, 539–552.
21. ———, *Difference map readability for dynamic graphs*, *Proc. of GraphDrawing'10*, Springer, 2011, pp. 50–61.
22. Benjamin Bach, Emmanuel Pietriga, and Jean-Daniel Fekete, *GraphDiaries: Animated transitions and temporal navigation for dynamic networks*, *TVCG* **20** (2014), no. 5, 740–754.

23. Anthony Bagnall, Jason Lines, Aaron Bostrom, James Large, and Eamonn Keogh, *The great time series classification bake off: a review and experimental evaluation of recent algorithmic advances*, Data Mining and Knowledge Discovery **31** (2017), no. 3, 606–660.
24. Saskia Bakker, Alissa Antle, and Elise Van Den Hoven, *Embodied metaphors in tangible interaction design*, Personal Ubiquitous Computing **16** (2012), no. 4, 433–449.
25. Dominikus Baur, Sebastian Boring, and Andreas Butz, *Rush: Repeated recommendations on mobile devices*, International Conference on Intelligent User Interfaces, ACM, 2010, pp. 91–100.
26. Dominikus Baur, Sebastian Boring, and Steven Feiner, *Virtual projection: Exploring optical projection as a metaphor for*, SIGCHI, ACM, 2012, pp. 1693–1702.
27. Dominikus Baur, Bongshin Lee, and Sheelagh Carpendale, *Touchwave*.
28. Dominikus Baur, Frederik Seiffert, and Michael and Sedlmair, *The streams of our lives: Visualizing listening histories in context*, IEEE TVCG **16** (2010), no. 6, 1119–1128.
29. Michel Beaudouin-Lafon, *Instrumental interaction: an interaction model for designing post-WIMP*, booktitle = *SIGCHI*, year = 2000, pages = 446–453, publisher = ACM, doi = 10.1145/332040.332473.
30. Michel Beaudouin-Lafon, *Designing interaction, not interfaces*, AVI, 2004, pp. 15–22.
31. Fabian Beck, Franz-Josef Wiszniewsky, Michael Burch, Stephan Diehl, and Daniel Weiskopf, *Asymmetric visual hierarchy comparison with nested icicle plots.*, Diagrams, 2014, pp. 53–62.
32. Richard A. Becker, William S. Cleveland, and Allan R. Wilks, *Dynamic graphics for data analysis*, Statistical Science **2** (1987), no. 4, 355–383.
33. Jan Bender, Arjan Kuijper, Tatiana von Landesberger, Holger Theisel, Philipp Urban, Dieter W. Fellner, Michael Goesele, and Stefan Roth (eds.), *Vision, modeling, and visualization*, Eurographics Association, 2014.
34. Jürgen Bernard, David Sessler, Tobias Ruppert, and Davey, *User-based visual-interactive similarity definition for mixed data*, WSCG, EUROGRAPHICS, 2014, pp. 329–338.
35. Jürgen Bernard, Tatiana von Landesberger, Sebastian Bremm, and Tobias Schreck, *Multi-scale visual quality assessment for cluster analysis with self-organizing maps*, SPIE VDA, 7868, 2011, pp. 78680N–1–78680N–12.
36. Donald J Berndt and James Clifford, *Using dynamic time warping to find patterns in time series.*, KDD workshop, vol. 10, Seattle, WA, 1994, pp. 359–370.
37. Abraham Bernstein, Esther Kaufmann, Christoph Bürki, and Mark Klein, *How similar is it? towards personalized similarity measures in ontologies*, Wirtschaftsinformatik 2005, 2005, pp. 1347–1366.
38. Jacques Bertin, *Graphics and graphic information processing*, Walter de Gruyter, 1981.
39. Jacques Bertin, *Semiology of graphics: diagrams, networks, maps*, University of Wisconsin press, 1983.
40. Nigel Bevan, *International standards for HCI and usability*, Int. J. HCS **55** (2001), no. 4, 533–552.
41. Eric Bier, *Snap-dragging in three dimensions*, SIGGRAPH **24** (1990), no. 2, 193–204.
42. Eric Bier, Maureen Stone, Ken Pier, and William and Buxton, *Toolglass and magic lenses: The see-through interface*, SIGGRAPH, ACM, 1993, pp. 73–80.
43. M. Bilgic, L. Licamele, L. Getoor, and B. Shneiderman, *D-dupe: An interactive tool for entity resolution in social networks*, 2006 IEEE Symposium On Visual Analytics Science And Technology, Oct 2006, pp. 43–50.
44. Connie Blok, *Monitoring change: characteristics of dynamic geo-spatial phenomena*, Spatial cognition II, Springer, 2000, pp. 16–30.
45. Ingwer Borg and Thomas Staufenbiel, *Performance of snow flakes, suns, and factorial suns in the graphical representation of multivariate data*, Multivariate Behavioral Research **27** (1992), no. 1, 43–55.
46. Sebastian Boring and Dominikus Baur, *Making public displays interactive everywhere*, IEEE CG&A **33** (2013), no. 2, 28–36.
47. Andreas Brandstädt, Jeremy P Spinrad, et al., *Graph classes: a survey*, vol. 3, Siam, 1999.
48. Matthew Brehmer and Tamara Munzner, *A multi-level typology of abstract visualization tasks*, IEEE TVCG **19** (2013), no. 12, 2376–2385.
49. S. Bremm, T. von Landesberger, M. He, T. Schreck, P. Weil, and K. Hamacherk, *Interactive visual comparison of multiple trees*, 2011 IEEE Conference on Visual Analytics Science and Technology (VAST), Oct 2011, pp. 31–40.

50. Sebastian Bremm, Martin Heß, Tatiana von Landesberger, and Dieter W. Fellner, *Pcdc - on the highway to data. a tool for the fast generation of large synthetic data sets*, EuroVA, European Association for Computer Graphics, 2012, pp. 7–11.
51. Sebastian Bremm, Sebastian Maier, Tatiana von Landesberger, and Tobias Schreck, *Ein flexibles system für die explorative visuelle sequenzanalyse*, Datenbank-Spektrum **9** (2009), no. 31, 8–16.
52. Sebastian Bremm, Tatiana von Landesberger, J. Bernard, and Tobias Schreck, *Assisted descriptor selection based on visual comparative data analysis*, CGF **30** (2011), no. 3, 891–900.
53. Felix Brodkorb, Arjan Kuijper, Gennady Andrienko, and Andrienko, *Overview with details for exploring geo-located graphs on maps*, Information Visualization (2015).
54. Alfred Brunswig, *Das vergleichen und die relationserkenntnis*, BG Teubner, 1910.
55. Vannevar Bush, *As we may think*, Atlantic Monthly **176** (1945), no. 1, 101–108.
56. Stuart Card, Jock Mackinlay, and George Robertson, *A morphological analysis of the design space of input devices*, ACM Trans. on Information Systems **9** (1991), no. 2, 99–122.
57. Stuart K Card, Jock D Mackinlay, and Ben Shneiderman, *Readings in information visualization: using vision to think*, Kaufmann, 1999.
58. Sheelagh Carpendale, *Vislink: Revealing relationships amongst visualizations*, IEEE TVCG **13** (2007), 1192–1199.
59. Sheelagh Carpendale, *Evaluating information visualizations*, Information Visualization, Springer, 2008, pp. 19–45.
60. M. Cavallo and . Demiralp, *Clustrophile 2: Guided visual clustering analysis*, IEEE Transactions on Visualization and Computer Graphics (2018), 1–1.
61. Sye-Min Chan, Ling Xiao, John Gerth, and Pat Hanrahan, *Maintaining interactivity while exploring massive time series*, IEEE VAST, IEEE, 2008, pp. 59–66.
62. Min Chen, Georges Grinstein, Chris R. Johnson, Jessie Kennedy, and Melanie Tory, *Pathways for theoretical advances in visualization*, IEEE CG&A.
63. Jaegul Choo, Changhyun Lee, and Haesun Park, *Pive*, Tech. report.
64. Jaegul Choo, Hanseung Lee, Jaeyeon Kihm, and Haesun Park, *ivisclassifier: An interactive visual analytics system for classification based on supervised dimension reduction*, IEEE VAST, IEEE, 2010, pp. 27–34.
65. Nicholas A Christakis and James H Fowler, *The spread of obesity in a large social network over 32 years*, New England journal of medicine **357** (2007), no. 4, 370–379.
66. C. Collins, F. B. Viegas, and M. Wattenberg, *Parallel tag clouds to explore and analyze faceted text corpora*, 2009 IEEE Symposium on Visual Analytics Science and Technology, Oct 2009, pp. 91–98.
67. Paula Cowley, Jereme Haack, Rik Littlefield, and Ernest Hampson, *Glass box: capturing, archiving, and retrieving workstation activities*, ACM workshop on Continuous archival and retrieval of personal experiences, ACM, 2006, pp. 13–18.
68. Aaron CE Darling, Bob Mau, Frederick R Blattner, and Nicole T Perna, *Mauve: multiple alignment of conserved genomic sequence with rearrangements*, Genome research **14** (2004), no. 7, 1394–1403.
69. G. de Haan, G. van der Veer, and J. van Vliet, *Formal modelling techniques in human-computer interaction*, Acta Psychologica **78** (1991), no. 1-3, 27–67.
70. Augustus De Morgan, *On the syllogism and other logical writings*, Yale University Press, 1966.
71. Kexin Deng, Jie Tian, Jian Zheng, Xing Zhang, Xiaoqian Dai, and Min Xu, *Retinal fundus image registration via vascular structure graph matching*, Journal of Biomedical Imaging **2010** (2010), 14:1–14:13.
72. Stephan Diehl and Carsten Görg, *Graphs, they are changing*, Graph drawing, Springer, 2002, pp. 23–31.
73. Hui Ding, Goce Trajcevski, Peter Scheuermann, Xiaoyue Wang, and Eamonn Keogh, *Querying and mining of time series data: Experimental comparison of representations and distance measures*, Proc. VLDB Endow. **1** (2008), no. 2, 1542–1552.
74. Alan Dix and Geoffrey Ellis, *Starting simple: adding value to static visualisation through simple*, AVI, ACM, 1998, pp. 124–134.
75. Alan Dix, Janet E. Finlay, Gregory D. Abowd, and Russell Beale, *Human-computer interaction*, 3rd edition ed., Prentice Hall, 2004.

76. Carina Friedrich Dorneles, Rodrigo Gonçalves, and Ronaldo dos Santos Mello, *Approximate data instance matching: a survey*, Knowledge and Information Systems **27** (2011), no. 1, 1–21.
77. Steven M Drucker, Danyel Fisher, Ramik Sadana, and Herron, *Touchviz*.
78. Niklas Elmqvist, Andrew Vande Moere, Hans-Christian Jetter, Daniel Cernea, Harald Reiterer, and TJ Jankun-Kelly, *Fluid interaction for information visualization*, Information Visualization **10** (2011), no. 4, 327–340.
79. Niklas Elmqvist and Ji Soo Yi, *Patterns for visualization evaluation*, Information Visualization **14** (2015), no. 3, 250–269.
80. Frank Emmert-Streib, Matthias Dehmer, and Yongtang Shi, *Fifty years of graph matching, network alignment and network comparison*, Information Sciences **346-347** (2016), 180 – 197.
81. Reinhard Engels, Tamara Yu, Chris Burge, Jill P. Mesirov, David DeCaprio, and James E. Galagan, *Combo: a whole genome comparative browser*, Bioinformatics **22** (2006), no. 14, 1782–1783.
82. William K Estes, *Classification and cognition*, Oxford University Press, 1994.
83. Stephanie DH Evergreen, *Effective data visualization: The right chart for the right data*, Sage Publications, 2016.
84. Sebastian Fahnenschreiber, Melvin Laux, and Tatiana von Landesberger, *On the suitability of connectivity-extended local embedding for drawing multivariate graphs*, VMV, 2014, pp. 127–134.
85. Bart Farell, *Same”–” different” judgments: A review of current controversies in perceptual comparisons.*, Psychological Bulletin **98** (1985), no. 3, 419.
86. Manuel Freire, *Visualizing program similarity in the ac plagiarism detection system*, Proceedings of the Working Conference on Advanced Visual Interfaces (New York, NY, USA), AVI '08, ACM, 2008, pp. 404–407.
87. E. Frentzos, K. Gratsias, and Y. Theodoridis, *Index-based most similar trajectory search*, 2007 IEEE 23rd International Conference on Data Engineering, April 2007, pp. 816–825.
88. Johannes Fuchs, Petra Isenberg, Anastasia Bezerianos, Fabian Fischer, and Enrico Bertini, *The influence of contour on similarity perception of star glyphs*, IEEE Trans. Vis. Comput. Graphics **20** (2014), no. 12, 2251–2260.
89. George W. Furnas, Thomas K. Landauer, and Louis M. and Gomez, *The vocabulary problem in human-system communication*, Comm. of the ACM **30** (1987), no. 11, 964–971.
90. Jose Daniel Garcia, Jesus Carretero, Jose Maria Perez, and Felix, *Specifying use case behavior with interaction models*, The Journal of Object Technology **2** (2003), no. 2.
91. Roman Getto, Arjan Kuijper, and Tatiana von Landesberger, *Extended surface distance for local evaluation of 3D medical image*, The Visual Computer **31** (2015), no. 6-8, 989–999.
92. S. Ghani, N. Elmqvist, and J. S. Yi, *Perception of animated node-link diagrams for dynamic graphs*, Comput. Graph. Forum **31** (2012), no. 3pt3, 1205–1214.
93. Fosca Giannotti and Dino Pedreschi, *Mobility, data mining and privacy: Geographic knowledge discovery*, Springer Science & Business Media, 2008.
94. M. Gleicher, *Considerations for visualizing comparison*, IEEE Transactions on Visualization and Computer Graphics **24** (2018), no. 1, 413–423.
95. Michael Gleicher, Danielle Albers, Rick Walker, Ilir Jusufi, Charles D. Hansen, and Jonathan C. Roberts, *Visual comparison for information visualization*, Information Visualization **10** (2011), no. 4, 289–309.
96. A. Gogolou, T. Tsandilas, T. Palpanas, and A. Bezerianos, *Comparing similarity perception in time series visualizations*, IEEE Transactions on Visualization and Computer Graphics (2018), 1–1.
97. David Gotz and Michelle Zhou, *Characterizing users’ visual analytic activity for insight provenance*, Information Visualization **8** (2009), no. 1, 42–55.
98. Antonio Gracia, Santiago Gonzalez, Victor Robles, Ernestina Menasalvas, and Tatiana von Landesberger, *New insights into the suitability of the third dimension for visualizing multivariate/multidimensional data: A study based on loss of quality quantification*, Information Visualization (2014), no. 12, 1–28.
99. Joshua A Grochow and Manolis Kellis, *Network motif discovery using subgraph enumeration and symmetry-breaking*, RECOMB, Springer, 2007, pp. 92–106.

100. John Alexis Guerra-Gómez, Audra Buck-Coleman, Catherine Plaisant, and Ben Shneiderman, *Treeversty: Interactive visualizations for comparing two trees with structure and node value changes*, Design Research Society, 2012, pp. 10–17.
101. Jason Haberman and David Whitney, *Ensemble perception: Summarizing the scene and broadening the limits*, From perception to consciousness: Searching with Anne Treisman (2012), 339–349.
102. Ulrike Hahn and Nick Chater, *Concepts and similarity*, Knowledge, concepts and categories (1997), 43–92.
103. Mark Hancock, Otmar Hilliges, Christopher Collins, and Baur, *Exploring tangible and direct touch interfaces for manipulating 2D and 3D information on a digital table*, International Conference on Interactive Tabletops and Surfaces, ACM, 2009, pp. 77–84.
104. Marc Harrower and Cynthia A. Brewer, *Colorbrewer.org: An online tool for selecting colour schemes for*, Cartographic Journal (2003), no. 3, 27–37.
105. H. Rex Hartson, Antonio C. Siochi, and Deborah Hix, *The UAN: A user-oriented representation for direct manipulation*, ACM Trans. Information Systems **8** (1990), no. 3, 181–203.
106. Jeffrey Michael Heer, Jock Mackinlay, Chris Stolte, and Maneesh, *Graphical histories for visualization: Supporting analysis, communication, and evaluation*, IEEE TVCG **14** (2008), no. 6, 1189–1196.
107. D. Hillis, T. Heath, and K. John, *Analysis and visualization of tree space*, Systematic Biology **54** (2005), no. 3, 471.
108. Simon Holland and Daniel Oppenheim, *Direct combination*, SIGCHI, ACM, 1999, pp. 262–269.
109. Morrison Holyoak et al., *The cambridge handbook of thinking and reasoning*, Cambridge University Press, 2005.
110. David Howard and Alan M. MacEachren, *Interface design for geographic visualization: Tools for representing*, Cartography and Geographic Information Systems **23** (1996), no. 2, 59–77.
111. Weidong Huang, Seok-Hee Hong, and Peter Eades, *Predicting graph reading performance: a cognitive approach*, PacificVis, IEEE, 2006, pp. 207–216.
112. Jaime Huerta-Cepas, Joaquín Dopazo, and Toni Gabaldón, *Ete: a python environment for tree exploration*, BMC Bioinformatics **11** (2010), no. 1, 24.
113. Jörn Hurtienne and Lucienne Blessing, *Metaphors as tools for intuitive interaction with technology*, metaphorik.de **12** (2007), 21–52.
114. Petra Isenberg, Niklas Elmqvist, Jean Scholtz, and Cernea, *Collaborative visualization: Definition, challenges, and research*, Information Visualization **10** (2011), no. 4, 310–326.
115. Tobias Isenberg, Petra Isenberg, Jian Chen, and Sedlmair, *A systematic review on the practice of evaluating visualization*, IEEE TVCG **19** (2013), no. 12, 2818–2827.
116. Bret Jackson, Tung Yuen Lau, David Schroeder, and Kimani C., *A lightweight tangible 3D interface for interactive visualization*, IEEE TVCG **19** (2013), no. 12, 2802–2809.
117. Jesper Hojvang Jensen, Daniel PW Ellis, and Mads Christensen, *Evaluation distance measures between gaussian mixture models of mfccs*, International Conference on Music Information Retrieval, Austrian Computer Society, 2007, pp. 107–108.
118. Daxin Jiang, Chun Tang, and Aidong Zhang, *Cluster analysis for gene expression data: a survey*, Tran. Knowledge and Data Engineering **16** (2004), no. 11, 1370–1386.
119. Thomas Kalbe, Tatiana Tekušová, Tobias Schreck, and Frank Zeilfelder, *Gpu-accelerated*.
120. Johannes Kehler, Harald Piringer, Wolfgang Berger, and Gröller, *A model for structure-based comparison of many categories in small-multiple*, IEEE TVCG **19** (2013), no. 12, 2287–2296.
121. Daniel A Keim, *Information visualization and visual data mining*, IEEE TVCG **8** (2002), no. 1, 1–8.
122. Eamonn Keogh and Shruti Kasetty, *On the need for time series data mining benchmarks: a survey and*, Data Mining and knowledge discovery **7** (2003), no. 4, 349–371.
123. N. Kerracher and J. Kennedy, *Constructing and evaluating visualisation task classifications: Process and considerations*, CGF **36** (2017), no. 3, 47–59.
124. Andreas Kerren, Helen C Purchase, and Matthew O Ward, *Multivariate network visualization*, Lecture Notes in Computer Science **8380** (2014).
125. S. Kieffer, T. Dwyer, K. Marriott, and M. Wybrow, *Hola: Human-like orthogonal network layout*, IEEE TVCG **22** (2016), no. 1, 349–358.

126. Kyungyoon Kim, John V Carlis, and Daniel F Keefe, *Comparison techniques utilized in spatial 3d and 4d data visualizations: A survey and future directions*, Computers & Graphics (2017).
127. Jeffrey H Kingston, *Algorithms and data structures: design, correctness, analysis*, Addison-Wesley Sydney, 1990.
128. Alexander Klippel, Frank Hardisty, Rui Li, and Chris Weaver, *Colour-enhanced star plot glyphs: Can salient shape characteristics be overcome?*, Cartographica: The International Journal for Geographic Information and Geovisualization **44** (2009), no. 3, 217–231.
129. Alexander Klippel, Frank Hardisty, and Chris Weaver, *Star plots: How shape characteristics influence classification tasks*, Cartogr. Geogr. Inf. Sci. **36** (2009), no. 2, 149–163.
130. Stephen G Kobourov, Sergey Pupyrev, and Bahador Saket, *Are crossings important for drawing large graphs?*, Graph Drawing, Springer, 2014, pp. 234–245.
131. Artjom Kochtchi, Chris Biemann, and Tatiana von Landesberger, *Networks of names: Visual exploration and semi-automatic tagging*, CGF **33** (2014), no. 3, 211–220.
132. Alexandra Koussoulakou and Menno-Jan Kraak, *Spatia-temporal maps and cartographic communication*, Cartographic J. **29** (1992), no. 2, 101–108.
133. Glenn Krasner and Stephen Pope, *A cookbook for using the model-view controller user interface paradigm*, J. Object-Oriented Programming **1** (1988), no. 3, 26–49.
134. Matthias Kreuseler, Thomas Nocke, and Heidrun Schumann, *A history mechanism for visual data mining*, Information Visualization, IEEE, 2004, pp. 49–56.
135. Robert Krüger, Guodao Sun, Fabian Beck, Ronghua Liang, and Thomas Ertl, *TravelDiff: Visual comparison analytics for massive movement patterns derived from twitter*, IEEE PacificVis, IEEE, 2016, pp. 176–183.
136. Mary K Kuhner and Jon Yamato, *Practical performance of tree comparison metrics*, Systematic biology **64** (2015), no. 2, 205–214.
137. Robert I. Goldstone and Ji Yun Son, *Similarity*, The Cambridge Handbook of Thinking and Reasoning (Keith J. Holyoak and Robert G. Morrison, eds.), Cambridge University Press, 2005.
138. Heidi Lam, *A framework of interaction costs in information visualization*, IEEE TVCG **14** (2008), no. 6, 1149–1156.
139. Heidi Lam, Enrico Bertini, Petra Isenberg, and Plaisant, *Empirical studies in information visualization: Seven scenarios*, IEEE TVCG **18** (2012), no. 9, 1520–1536.
140. A. Lex, N. Gehlenborg, H. Strobel, R. Vuillemot, and H. Pfister, *Upset: Visualization of intersecting sets*, IEEE Transactions on Visualization and Computer Graphics **20** (2014), no. 12, 1983–1992.
141. A. Lex, M. Streit, C. Partl, K. Kashofer, and D. Schmalstieg, *Comparative analysis of multi-dimensional, quantitative data*, IEEE Transactions on Visualization and Computer Graphics **16** (2010), no. 6, 1027–1035.
142. Alex Lex, Marc Streit, Hans-Jörg Schulz, C. Partl, Dieter Schmalstieg, P. J. Park, and Nils Gehlenborg, *StratomeX: Visual analysis of large-scale heterogeneous genomics data for cancer subtype characterization*, CGF **31** (2012), no. 3, 1175–1184.
143. T. Warren Liao, *Clustering of time series data – a survey*, Pattern recognition **38** (2005), no. 11, 1857–1874.
144. Jessica Lin, Eamonn Keogh, Stefano Lonardi, and Bill Chiu, *A symbolic representation of time series, with implications for streaming algorithms*, Proceedings of the 8th ACM SIGMOD Workshop on Research Issues in Data Mining and Knowledge Discovery (New York, NY, USA), DMKD '03, ACM, 2003, pp. 2–11.
145. Martin Luboschik, Stefan Rybacki, Fiete Haack, and Hans-Jrg Schulz, *Supporting the integrated visual analysis of input parameters and simulation trajectories*, Computers & Graphics **39** (2014), 37 – 47.
146. Ehsan Maleki, Hossein Babashah, Somayyeh Koochi, and Zahra Kavehvash, *High-speed all-optical dna local sequence alignment based on a three-dimensional artificial neural network*, J. Opt. Soc. Am. A **34** (2017), no. 7, 1173–1186.
147. Aaron Marcus, *Managing metaphors for advanced user interfaces*, AVI, ACM, 1994, pp. 12–18.
148. RB Marimont and MB Shapiro, *Nearest neighbour searches and the curse of dimensionality*, IMA J. Applied Mathematics **24** (1979), no. 1, 59–70.

149. Daniel McFarlane and Kara Latorella, *The scope and importance of human interruption in human-computer*, Human-Computer Interaction **17** (2002), no. 1, 1–61.
150. Cathleen McGrath, Jim Blythe, and David Krackhardt, *The effect of spatial arrangement on judgments and errors in interpreting*, Social Networks **19** (1997), no. 3, 223–242.
151. Juan Mendivelso, Sunghwan Kim, Sameh Elnikety, Yuxiong He, Seung-won Hwang, and Yoan Pinzón, *Solving graph isomorphism using parameterized matching*, String Processing and Information Retrieval (Cham) (Oren Kurland, Moshe Lewenstein, and Ely Porat, eds.), Springer International Publishing, 2013, pp. 230–242.
152. Joerg Meyer, Jim Thomas, Stephan Diehl, Brian Fisher, and Daniel A Keim, *From visualization to visually enabled reasoning*, Dagstuhl Follow-Ups **1** (2010).
153. M. Meyer, T. Munzner, and H. Pfister, *Mizbee: A multiscale synteny browser*, IEEE Transactions on Visualization and Computer Graphics **15** (2009), no. 6, 897–904.
154. Harvey J. Miller and Jiawei Han, *Geographic data mining and knowledge discovery*, CRC Press, 2009.
155. MISAEEL MONGIOV, RAFFAELE DI NATALE, ROSALBA GIUGNO, ALFREDO PULVIRENTI, ALFREDO FERRO, and RODED SHARAN, *Sigma: A set-cover-based inexact graph matching algorithm*, Journal of Bioinformatics and Computational Biology **08** (2010), no. 02, 199–218.
156. Paul M. Mullins and Siegfried Treu, *A task-based cognitive model for user-network interaction: Defining*, Interacting with Computers **5** (1993), no. 2, 139–166.
157. Tamara Munzner, *A nested model for visualization design and validation*, IEEE TVCG **15** (2009), no. 6, 921–928.
158. Tamara Munzner, François Guimbretière, Serdar Tasiran, Li Zhang, and Yunhong Zhou, *Treejuxtaposer: Scalable tree comparison using focus+context with guaranteed visibility*, ACM Trans. Graph. **22** (2003), no. 3, 453–462.
159. Mirco Nanni and Dino Pedreschi, *Time-focused clustering of trajectories of moving objects*, J. Intelligent Information Systems **27** (2006), no. 3, 267–289.
160. P. H. Nguyen, C. Turkay, G. Andrienko, N. Andrienko, O. Thonnard, and J. Zouaoui, *Understanding user behaviour through action sequences: from the usual to the unusual*, IEEE Transactions on Visualization and Computer Graphics (2018), 1–1.
161. Quan Nguyen, Peter Eades, and Seok-Hee Hong, *On the faithfulness of graph visualizations*, IEEE PacificVis, IEEE, 2013, pp. 209–216.
162. David G. Novick and Stephen Sutton, *What is mixed-initiative interaction?*, Tech. Report SS-97-04, Association for the Advancement of Artificial Intelligence, 1997.
163. Zeljko Obrenovic and Dusan Starcevic, *Modeling multimodal human-computer interaction*, IEEE Computer **37** (2004), no. 9, 65–72.
164. Francesco Orilia and Chris Swoyer, *Properties*, The Stanford Encyclopedia of Philosophy (Edward N. Zalta, ed.), 2016, <http://plato.stanford.edu/archives/spr2016/entries/properties/>, accessed online on 15.01.2016.
165. Anshul Vikram Pandey, Josua Krause, Cristian Felix, Jeremy Boy, and Enrico Bertini, *Towards understanding human similarity perception in the analysis of large sets of scatter plots*, CHI, 2016, pp. 3659–3669.
166. Apostolos N Papadopoulos and Yannis Manolopoulos, *Structure-based similarity search with graph histograms*, DEXA, IEEE, 1999, pp. 174–178.
167. Paul Parsons and Kamran Sedig, *Adjustable properties of visual representations: Improving the quality*, J. Association for Information Science and Technology **65** (2014), no. 3, 455–482.
168. Elzbieta Pekalska and Robert P. W. Duin, *The dissimilarity representation for pattern recognition: Foundations and applications*, World Scientific Publishing Co., Inc., River Edge, NJ, USA, 2005.
169. Maja Pesic, Helen Schonenberg, and Wil M. P. van der Aalst, *Declare*.
170. Mary A Peterson and Gillian Rhodes, *Perception of faces, objects, and scenes: Analytic and holistic processes*, Oxford University Press, 2003.
171. Donna J. Peuquet, *It's about time: A conceptual framework for the representation of*, Annals of the Association of American Geographers **84** (1994), no. 3, 441–461.
172. Darius Pfitzner, Vaughan Hobbs, and David Powers, *A unified taxonomic framework for information visualization*, PacificVis, Australian Computer Society, Inc., 2003, pp. 57–66.
173. Hans Pichler, *Brunswick, alfred. das vergleichen und die relations-erkenntnis.*, Kant-Studien **16** (1911), no. 1-3, 304–306.

174. William A. Pike, John Stasko, Remco Chang, and O'connell, *The science of interaction*, Inf. Visualization **8** (2009), no. 4, 263–274.
175. Harald Piringer, Christian Tominski, Philipp Muigg, and Wolfgang, *A multi-threading architecture to support interactive visual exploration*, IEEE TVCG **15** (2009), no. 6, 1113–1120.
176. Helen C Purchase, *Metrics for graph drawing aesthetics*, J. Vis. Languages & Computing **13** (2002), no. 5, 501–516.
177. Helen C. Purchase, Natalia Andrienko, T.J. Jankun-Kelly, and Matthew Ward, *Theoretical foundations of information visualization*, Information Visualization, Springer, 2008, pp. 46–64.
178. Liujin Qian, Monica Wachowicz, Donna Peuquet, and MacEachren, *Delineating operations for visualization and analysis of space-time*, GIS/LIS, vol. 97, 1997, pp. 28–30.
179. Axel Radloff, Anke Lehmann, Oliver Staadt, and Schumann, *Smart interaction management: An interaction approach for smart meeting*, Int. Conf. Intelligent Environments, IEEE, 2012, pp. 228–235.
180. Gonzalo Ramos, Andy Cockburn, Ravin Balakrishnan, and Beaudouin-Lafon, *Pointing lenses: Facilitating stylus input through visual- and motor-space*, SIGCHI, ACM, 2007, pp. 757–766.
181. T. M. Rath and R. Manmatha, *Word image matching using dynamic time warping*, 2003 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 2003. Proceedings., vol. 2, June 2003, pp. II–II.
182. Trygve Reenskaug and James Coplien, *The DCI architecture: A new vision of object-oriented programming*, artima developer, March 2009.
183. Trygve Reenskaug, Per Wold, and Odd Arild Lehne, *Working with objects: The OOram software engineering method*, Manning/Prentice Hall, 1996.
184. Daniel Reisberg, *Cognition: Exploring the science of the mind*, vol. 255, WW Norton New York, 1997.
185. Fabio Remondino, Maria Grazia Spera, Erica Nocerino, Fabio Menna, and Francesco Nex, *State of the art in high density image matching*, The Photogrammetric Record **29**, no. 146, 144–166.
186. Lei Ren, Jin Cui, Yi Du, and Guozhong Dai, *Multilevel interaction model for hierarchical tasks in information*, VINCI, ACM, 2013, pp. 11–16.
187. John F. Roddick, Kathleen Hornsby, and Myra Spiliopoulou, *An updated bibliography of temporal, spatial, and spatio-temporal*, Springer, 2001.
188. R.E. Roth, *An empirically derived taxonomy of cartographic interaction primitives*, GI-Science, 2012, pp. 18–21.
189. Robert Roth, *An empirically-derived taxonomy of interaction primitives for interactive*, IEEE TVCG **19** (2013), no. 12, 2356–2365.
190. Dominik Sacha, Andreas Stoffel, Florian Stoffel, and Kwon, *Knowledge generation model for visual analytics*, IEEE TVCG **20** (2014), no. 12, 1604–1613.
191. Bahador Saket, Paolo Simonetto, Stephen Kobourov, and Katy Börner, *Node, node-link, and node-link-group diagrams: An evaluation*, IEEE TVCG **20** (2014), no. 12, 2231–2240.
192. Maximilian Scherer, Tatiana von Landesberger, and Tobias Schreck, *A benchmark for content-based retrieval in bivariate data collections*, Theory and Practice of Digital Libraries, Lecture Notes in Computer Science (LNCS); 7489, Springer, Berlin, Heidelberg, New York, 2012, pp. 286–297.
193. ———, *Topic modeling for search and exploration in multivariate research data repositories*, Research and Advanced Technology for Digital Libraries, LNCS 8092, Springer, Berlin, Heidelberg, New York, 2013, pp. 370–373.
194. ———, *Visual-interactive querying for multivariate research data repositories using bag-of-words*, JCDL, ACM, ACM, 2013, pp. 285–294.
195. J. Schmidt, R. Preiner, T. Auzinger, M. Wimmer, M. E. Grrler, and S. Bruckner, *Ymca your mesh comparison application*, 2014 IEEE Conference on Visual Analytics Science and Technology (VAST), Oct 2014, pp. 153–162.
196. Nadine Schneider, Roger A. Sayle, and Gregory A. Landrum, *Get your atoms in order: an open-source implementation of a novel and robust molecular canonicalization algorithm*, Journal of Chemical Information and Modeling **55** (2015), no. 10, 2111–2120, PMID: 26441310.

197. Tobias Schreck, Tatiana Tekušová, Jörn Kohlhammer, and Dieter W. Fellner, *Trajectory-based visual analysis of large financial time series data*, ACM SIGKDD **9** (2007), no. 2, 30–37.
198. Tobias Schreck, Tatiana von Landesberger, and Sebastian Bremm, *Techniques for precision-based visual analysis of projected data*, SPIE VDA, SPIE, SPIE, 2010, pp. 7500E–1–7500E–12.
199. H. Schulz, T. Nocke, M. Heitzler, and H. Schumann, *A design space of visualization tasks*, IEEE Transactions on Visualization and Computer Graphics **19** (2013), no. 12, 2366–2375.
200. Hans-Jörg Schulz, Zabedul Akbar, and Frank Maurer, *A generative layout approach for rooted tree drawings*, PacificVis, IEEE, 2013, pp. 225–232.
201. Hans-Jörg Schulz, Marco Angelini, Giuseppe Santucci, and Heidrun Schumann, *An enhanced visualization process model for incremental visualization*, IEEE TVCG **22** (2016), no. 7, 1830–1842.
202. Henning Schwöbbermeyer and Röbbke Wünschiers, *Mavisto: a tool for biological network motif analysis*, Bacterial Molecular Networks: Methods and Protocols (2012), 263–280.
203. Michael Sedlmair, Andrada Tatu, Tamara Munzner, and Melanie Tory, *A taxonomy of visual cluster separation factors*, CFG **31** (2012), no. 3pt4, 1335–1344.
204. Christin Seifert and Elisabeth Lex, *A novel visualization approach for data-mining-related classification*, Proc. of IV'09, IEEE, 2009, pp. 490–495.
205. Lin Shao, Michael Behrisch, Tobias Schreck, Tatiana von Landesberger, Maximilian Scherer, Sebastian Bremm, and Daniel A. Keim, *Guided sketching for visual search and exploration in large scatter plot spaces*, EuroVA, EuroGraphics, 2014, pp. 19–23.
206. B. Shneiderman, *The eyes have it: a task by data type taxonomy for information visualizations*, Proceedings 1996 IEEE Symposium on Visual Languages, Sept 1996, pp. 336–343.
207. Ben Shneiderman, *The future of interactive systems and the emergence of direct manipulation*, Behaviour & Information Technology **1** (1982), no. 3, 237–256.
208. Simon Shum and Nick Hammond, *Transferring HCI modelling and design techniques to practitioners*, Conference on People and computers IX, Cambridge University Press, 1994, pp. 21–36.
209. Antonio C. Siochi, H. Rex Hartson, and Deborah Hix, *Notational techniques for accommodating user intention shifts*, Tech. Report TR-90-18, Virginia Polytechnic Institute and State University, 1990.
210. Hyunjoo Song, Bongshin Lee, Bohyoung Kim, and Jinwook Seo, *Diffmatrix: Matrix-based interactive visualization for comparing temporal trends*, EuroVis – SP, 2012, pp. 103–107.
211. Martin Spindler, Christian Tominski, Heidrun Schumann, and Raimund, *Tangible views for information visualization*, ACM ITS, ACM, 2010, pp. 157–166.
212. Rebecca R. Springmeyer, Meera M. Blattner, and Nelson L. Max, *A characterization of the scientific data analysis process*, Conf. on Visualization, IEEE Computer Society Press, 1992, pp. 235–242.
213. Arjun Srinivasan, Matthew Brehmer, Bongshin Lee, and Steven Drucker, *Whats the difference?: Evaluating variants of multi-series bar charts for visual comparison tasks*, ACM, January 2018, pp. 1–10.
214. Martin Steiger, Jürgen Bernard, Sebastian Mittelstädt, Marco Hutter, Daniel Keim, Simon Thum, and Jörn Kohlhammer, *Explorative analysis of 2D color maps*, SCCG (Vaclav Skala, ed.), vol. 23, 2015, pp. 151–160.
215. Alexander A. Stevens, Pawel Skudlarski, J. Christopher Gatenby, and John C. Gore, *Event-related fMRI of auditory and visual oddball tasks*, Magnetic resonance imaging **18** (2000), no. 5, 495–502.
216. S. S. Stevens, *On the theory of scales of measurement*, Science **103** (1946), no. 2684, 677–680.
217. Charles D. Stolper, Adam Perer, and David Gotz, *Progressive visual analytics: User-driven visual exploration of in-progress*, IEEE TVCG **20** (2014), no. 12, 1653–1662.
218. Marc Streit, Hans-Jörg Schulz, Alexander Lex, Dieter Schmalstieg, and Heidrun Schumann, *Model-driven design for the visual analysis of heterogeneous data*, IEEE TVCG **18** (2012), no. 6, 998–1010.
219. Nicole Sultanum, Sowmya Somanath, Ehud Sharlin, and Sousa, *Point it, split it, peel it, view it: techniques for interactive*, ACM ITS, ACM, 2011, pp. 192–201.
220. Ivan Edward Sutherland, *Sketchpad: A man-machine graphical communication system*, Tech. Report UCAM-CL-TR-574, University of Cambridge, 2003.

221. Egemen Tanin, Richard Beigel, and Ben Shneiderman, *Incremental data structures and algorithms for dynamic query interfaces*, ACM SIGMOD Record **25** (1996), no. 4, 21–24.
222. Andrada Tatu, Leishi Zhang, Enrico Bertini, Tobias Schreck, Daniel A. Keim, Sebastian Bremm, and Tatiana von Landesberger, *Clustnails: Visual analysis of subspace clusters*, Tsinghua Science and Technology **17** (2012), no. 4, 419–428.
223. Tatiana Tekušová and Jörn Kohlhammer, *Applying animation to the visual analysis of financial time-dependent data*, Information Visualization, IEEE, 2007, pp. 101–108.
224. Tatiana Tekušová, Viktor Voss, and Jörn Kohlhammer, *Semantic search and visualization of time-series data*, I-KNOW, 2008, pp. 332–340.
225. Martijn Tennekes and Edwin de Jonge, *Tree colors: color schemes for tree-structured data*, IEEE TCVG **20** (2014), no. 12, 2072–2081.
226. James J. Thomas and Kristin A. Cook, *Illuminating the path*, IEEE, 2005.
227. Alice Thudt, Dominikus Baur, and Sheelagh Carpendale, *Visits: A spatiotemporal visualization of location histories*, EuroVis – SP, Eurographics, 2013, pp. 79–83.
228. Y. Tian and J. M. Patel, *Tale: A tool for approximate large graph matching*, 2008 IEEE 24th International Conference on Data Engineering, April 2008, pp. 963–972.
229. C. Tominski, C. Forsell, and J. Johansson, *Interaction support for visual comparison inspired by natural behavior*, IEEE Transactions on Visualization and Computer Graphics **18** (2012), no. 12, 2719–2728.
230. Christian Tominski, *Comparing: Reducing costs of visual comparison*, EuroVis 2016 - Short Papers (Enrico Bertini, Niklas Elmqvist, and Thomas Wischgoll, eds.), The Eurographics Association, 2016.
231. Christian Tominski, James Abello, and Heidrun Schumann, *Axes-based visualizations with radial layouts*, Proceedings of the 2004 ACM Symposium on Applied Computing (New York, NY, USA), SAC '04, ACM, 2004, pp. 1242–1247.
232. Roger Took, *Surface interaction: A paradigm and model for separating application and interface*, SIGCHI, ACM, 1990, pp. 35–42.
233. Thomas Torsney-Weir, Ahmed Saad, Torsten Moller, Hans-Christian Hege, Britta Weber, Jean-Marc Verbavatz, and Steven Bergner, *Tuner: Principled parameter finding for image segmentation algorithms using visual response surface exploration*, IEEE TVCG **17** (2011), no. 12, 1892–1901.
234. ER Tufte, *Envisioning information*, Graphics Press, 1990.
235. Amos Tversky, *Features of similarity.*, Psychological review **84** (1977), no. 4, 327.
236. David John Unwin, *Introductory spatial analysis*, vol. 748, Taylor & Francis, 1981.
237. S. van den Elzen and J. J. van Wijk, *Baobabview: Interactive construction and analysis of decision trees*, 2011 IEEE Conference on Visual Analytics Science and Technology (VAST), Oct 2011, pp. 151–160.
238. Stef van den Elzen, Danny Holten, Jorik Blaas, and Jarke J van Wijk, *Reducing snapshots to points: A visual analytics approach to dynamic network exploration*, IEEE TVCG **22** (2016), no. 1, 1–10.
239. van der Aalst.
240. M. Vlachos, G. Kollios, and D. Gunopulos, *Discovering similar multidimensional trajectories*, Proceedings 18th International Conference on Data Engineering, Feb 2002, pp. 673–684.
241. von Landesberger.
242. T. von Landesberger, M. Gorner, and T. Schreck, *Visual analysis of graphs with multiple connected components*, 2009 IEEE Symposium on Visual Analytics Science and Technology, Oct 2009, pp. 155–162.
243. Tatiana von Landesberger, Sebastian Bremm, Tobias Schreck, and Dieter W. Fellner, *Feature-based automatic identification of interesting data segments in group movement data*, Information Visualization **13** (2013), no. 3, 190–212.
244. Tatiana von Landesberger, Felix Brodtkorb, and Philipp Roskosch, *Mobilitygraphs.*
245. Tatiana von Landesberger, Melanie Görner, Robert Rehner, and Tobias Schreck, *A system for interactive visual analysis of large graphs using motifs*, VMV, 2009, pp. 331–339.
246. Tatiana von Landesberger, Margit Pohl, Günter Wallner, Martin Distler, and Kathrin Ballweg, *Investigating graph similarity perception: A preliminary study and methodological challenges*, Proc. VISGRAPP, 2017, pp. 241–250.
247. Tatiana von Landesberger, Tobias Schreck, Dieter W. Fellner, and Jörn Kohlhammer, *Expanding the frontiers of visual analytics and visualization*, ch. Visual Search and Analysis

- in Complex Information Spaces - Approaches and Research Challenges, pp. 45–67, Springer, 2012.
248. Peter Wegner, *Why interaction is more powerful than algorithms*, Comm. ACM **40** (1997), no. 5, 80–91.
 249. S. Wehrend and C. Lewis, *A problem-oriented classification of visualization techniques*, IEEE Visualization, 1990, pp. 139–143.
 250. Sebastian Wernicke and Florian Rasche, *Fanmod: a tool for fast network motif detection*, Bioinformatics **22** (2006), no. 9, 1152–1153.
 251. Daniel R. White and Mike S. Joy, *Sentence-based natural language plagiarism detection*, J. Educ. Resour. Comput. **4** (2004), no. 4.
 252. L. Wilkinson, A. Anand, and R. Grossman, *G*, Proc. of InfoVis'05, pp. 157–164.
 253. Leland Wilkinson, *An experimental evaluation of multivariate graphical point representations*, Proceedings of the 1982 Conference on Human Factors in Computing Systems (New York, NY, USA), CHI '82, ACM, 1982, pp. 202–209.
 254. ———, *The grammar of graphics*, 2nd edition ed., Springer, 2006.
 255. Graham Wills, *Selection: 524,288 ways to say "This is interesting"*, Information Visualization (Nahum D. Gershon, Stuart Card, and Stephen G. Eick, eds.), IEEE, 1996, pp. 54–60.
 256. Jeremy M Wolfe, Keith R Kluender, Dennis M Levi, Linda M Bartoshuk, Rachel S Herz, Roberta L Klatzky, Susan J Lederman, and Daniel M Merfeld, *Sensation & perception*, Sinauer Sunderland, MA, 2006.
 257. Emerson M. A. Xavier, Francisco J. Ariza-López, and Manuel A. Ureña Cámara, *A survey of measures and methods for matching geospatial vector datasets*, ACM Comput. Surv. **49** (2016), no. 2, 39:1–39:34.
 258. Xiaopeng Xi, Eamonn Keogh, Li Wei, and Agenor Mafra-Neto, *Finding motifs in a database of shapes*, pp. 249–260.
 259. Ji Soo Yi, Youn ah Kang, John Stasko, and Julie Jacko, *Toward a deeper understanding of the role of interaction in information*, IEEE TVCG **13** (2007), no. 6, 1224–1231.
 260. Ji Soo Yi, Niklas Elmqvist, and Seungyoon Lee, *Timematrix: Analyzing temporal social networks using interactive*, Int. J. HCI **26** (2010), no. 11-12, 1031–1051.
 261. Minghe Yu, Guoliang Li, Dong Deng, and Jianhua Feng, *String similarity search and join: a survey*, Frontiers of Computer Science **10** (2016), no. 3, 399–417.
 262. Morris Zelditch Jr, *Intelligible comparisons*, Comparative methods in sociology: Essays on trends and applications (1971), 267–307.
 263. Kaizhong Zhang, Jason TL Wang, and Dennis Shasha, *On the editing distance between undirected acyclic graphs*, Int. J. Foundations of Computer Science **7** (1996), no. 01, 43–57.
 264. Jian Zhao, Zhicheng Liu, Mira Dontcheva, Aaron Hertzmann, and Alan Wilson, *Matrixwave: Visual comparison of event sequence data*, Conference on Human Factors in Computing Systems, ACM, 2015, pp. 259–268.
 265. Xi Zhu and Diansheng Guo, *Mapping large spatial flow data with hierarchical clustering*, Trans. GIS **18** (2014), no. 3, 421–435.