

CONFERENCE PAPER [PEER-REVIEWED]

- [C-11] **Mike Sips**, Joern Schneidewind, Daniel A. Keim, Heidrun Schumann.
Scalable Pixel-based Visual Interfaces: Challenges and Solutions, Proceedings of the 10th International Conference on Information Visualisation (IV), pp. 32 – 38, 2006
- [C-10] **Mike Sips**, Joern Schneidewind, Daniel A. Keim.
Scalable Pixel based Visual Data Exploration. Visual Information Expert Workshop (VIEW'06), 2006.
- [C-9] Carmen Sanz Merino, **Mike Sips**, Christian Panse, Robert Spence, Daniel A Keim.
Task-At-Hand Interface for Change Detection in Stock Market Data, Proceedings of the ACM International Working Conference on Advanced Visual Interfaces, pp. 420 – 427, 2006
- [C-8] Joern Schneidewind, **Mike Sips**, Daniel A. Keim.
Pixnostics: Towards Measuring the Value of Visualization, Proceedings of the IEEE Symposium on Visual Analytics and Technology (VAST'06), pp. 199 – 206, 2006
- [C-7] Florian Mansmann, **Mike Sips**, Daniel A. Keim, Christian Panse, Joern Schneidewind.
Mail Explorer – Spatial and Temporal Exploration of Electronic Mail, Proceedings of the Eurographics/IEEE-VGTC Symposium on Visualization, 2005
- [C-6] Roland Heilmann, Daniel A. Keim, Christian Panse, **Mike Sips**.
RecMap: Rectangular Map Approximations, Proceedings of the IEEE Symposium on Information Visualization (InfoVis'04), pp. 33–40, 2004
- [C-5] **Mike Sips**, Daniel A. Keim, Joern Schneidewind.
CircleView – A New Approach for Visualizing Time related Multidimensional Data Sets, Proceedings of the ACM International Working Conference on Advanced Visual Interfaces, pp. 179 – 182, 2004
- [C-4] Daniel A. Keim, Christian Panse, Joern Schneidewind, **Mike Sips**.
Analyzing Large Collections of E-Mail, Proceedings of the 2004 International Conference on Information and Knowledge Engineering (IKE'04) , pp. 275–281, 2004.
- [C-3] **Mike Sips**, Daniel A. Keim, Christian Panse, Joern Schneidewind.
Geo-spatial data viewer: From familiar land-covering to arbitrary distorted geo-spatial quadtree maps, Proceedings of the 12-th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision (WSCG'04), pp. 213 – 220, 2004.

- [C-2] **Mike Sips**, Daniel A. Keim, Stephen C. North, Christian Panse.
PixelMaps: A new visual data mining approach for analyzing large spatial data sets, Proceedings of the Third IEEE International Conference on Data Mining (ICDM'03), pp. 565 – 568, 2003.
- [C-1] Daniel A. Keim, Christian Panse, Joern Schneidewind, **Mike Sips**, Ming C. Hao, Umesh Dayal.
Pushing the limit in visual data exploration: Techniques and applications, Advances in Artificial Intelligence, 26th Annual German Conference on AI (KI 2003), Lecture Notes in Artificial Intelligence, Vol. 2821, pp. 37–51, 2003.

WORKSHOP PAPER [PEER-REVIEWED]

- [W-6] Georg Fuchs, Conrad Thiede, **Mike Sips**, Heidrun Schumann
Device-based Adaptation of Visualizations in Smart Environments, Workshop Collaborative Visualization on Interactive Surfaces (CoVIS), IEEE VisWeek 2009, Atlantic City, USA, 2009
- [W-5] Christian Fuchsberger, Sye-Min Christina Chan, Stefano Ongarello, **Mike Sips**, Isabel Feuerstein, Alexandre Pelzer, Guenther Bonn, Georg Bartsch, Helmut Klocker.
Visual Feature Selection in Biological Time-Series for Mass Spectrometry based Biomarker Discovery, Workshop on Intelligent Data Analysis in BioMedicine and Pharmacology (IDAMAP 2007), 2007.
- [W-4] Daniel A. Keim, Joern Schneidewind, **Mike Sips**.
Scalable Pixel-based Visual Data Exploration in “Pixelization Paradigm”, Lecture Notes in Computer Science, Vol. 4370, Springer, 2007.
- [W-3] **Mike Sips**, Joern Schneidewind, Daniel A. Keim.
Highlighting Space-Time Pattern: Effective Visual Encodings for Interactive Decision Making, Workshop on Visualization, Analytics & Spatial Decision Support, GIScience conference, 2006.
- [W-2] Roland Heilmann, **Mike Sips**, Daniel A. Keim, Christian Panse, Joern Schneidewind.
Finding Spatial Patterns in Network Data From Data to Patterns, International Workshop on Pattern Representation and Management (PaRMA), Online Publication, 2004
- [W-1] Daniel A. Keim, **Mike Sips**, Christian Panse.
Visual data mining of large spatial data sets, Third International Workshop on Databases in Networked Information Systems (DNIS'03), 2003.

JOURNAL PAPER [PEER-REVIEWED]

- [J-6] **Mike Sips**, Boris Neubert, John P. Lewis, Pat Hanrahan.
Selecting good views of high-dimensional data using class consistency, Computer Graphics Forum (Proc. EuroVis 2009), Vol. 28, No. 3, 2009.
- [J-5] Joern Schneidewind, **Mike Sips**, Daniel A. Keim.
An Automated Approach for the Optimization of Pixel-based Visualizations, Information Visualization, Palgrave Macmillan, Vol. 6, No. 1, 2007.
- [J-4] **Mike Sips**, Joern Schneidewind, Daniel A. Keim.
Highlighting Space-Time Pattern: Effective Visual Encodings for Interactive Decision Making, International Journal of Geographical Information Science (IJGIS), Vol. 21, No. 8, Taylor & Francis, 2007.
- [J-3] Christian Panse, **Mike Sips**, Daniel A. Keim, Stephen C. North.
Visualization of Geo-spatial Point Sets via Global Shape Transformation and Local Pixel Placement, IEEE Transactions on Visualization and Computer Graphics, Vol. 12, No. 5, IEEE Computer Society, 2006.
- [J-2] **Mike Sips**, Daniel A. Keim, Stephen C. North, Christian Panse.
Visual data mining in large geospatial point sets, IEEE Computer Graphics and Applications, Vol. 24, No. 5, pp. 36 – 44, 2004.
- [J-1] **Mike Sips**, Daniel A. Keim, Stephen C. North, Christian Panse.
Pixel based visual data mining of geo-spatial data, ELSEVIER Computer & Graphics, Elsevier, Vol. 28, No. 3, pp. 327–344, June 2004.

BOOK CHAPTER

- [B-3] **Mike Sips**.
Visual Clustering, Encyclopedia of Database Systems, Editors-in-chief: Özsu, M. Tamer; Liu, Ling, Springer, 2009. (print and online)
- [B-2] Daniel A. Keim, **Mike Sips**, Mihael Ankerst.
Visual Data-Mining Techniques, Visualization Handbook, Editors: Chris Johnson; Charles Hanson. Oxford: Elsevier, 2005.
- [B-1] Daniel A. Keim, Christian Panse, **Mike Sips**.
Information Visualization: Scope, Techniques and Opportunities for Geovisualization, Exploring Geovisualization, Editors: J. Dykes, A. MacEachren, and M.-J. Kraak, Oxford: Elsevier, 2005.

POSTER

- [P-6]** Sebastian Kay Belle, Daniela Oelke, Sonja Oettl, **Mike Sips**.
Exploration of the Local Distribution of Major Ethnic Groups in the USA, InfoVis Contest Overall Winner IEEE Symposium on Information Visualization (InfoVis'06), 2006
- [P-5]** **Mike Sips**, Joern Schneidewind, Daniel Keim, Stephen C. North,
Information at your fingertips: Exploring the US Census Data, InfoVis Contest Entry, IEEE Symposium on Information Visualization (InfoVis'06), 2006
- [P-4]** Daniel A. Keim, Joern Schneidewind, Christian Panse, **Mike Sips**, Jakob Haddick, Fabian Dill, Henrico Dolfing.
IVC05 Exploration Toolkit, IEEE Symposium on Information Visualization 2005 (InfoVis'05), 2005.
- [P-3]** Daniel A. Keim, Joern Schneidewind, **Mike Sips**.
FP-Viz: Visual Frequent Pattern Mining, IEEE Symposium on Information Visualization (InfoVis'05), 2005.
- [P-2]** Helmut Barro, **Mike Sips**, Daniel A. Keim, Christian Panse, Joern Schneidewind.
Exploring and Visualizing the History of InfoVis, 2nd place award, IEEE Symposium on Information Visualization 2004 (InfoVis'04), 2004.
- [P-1]** Daniel A. Keim, Christian Panse, Matthias Schaefer, **Mike Sips**.
HistoScale: An Efficient Approach for Computing Pseudo-Cartograms, IEEE Visualization Conference 2003 (Vis'03), 2003.

MISC

- [M-1]** Sascha Simon, **Mike Sips**, John Gerth
Interactive Exploration of the Network Behavior of Personal Machines, Proceedings of the Dagstuhl Seminar: "Visualization and Monitoring of Network Traffic", Extended Abstract, 2009

PHD THESIS

- [T-1]** **Mike Sips**.
Pixel-based Visual Data Mining in Large Geo-Spatial Point Sets, Hartung-Gorre Verlag Konstanz, Series in Computer Science, ISBN 3-86628-048-3, 2006.