

- [AAB+10] G. Andrienko, N. Andrienko, S. Bremm, T. Schreck, T. von Landesberger, P. Bak, and D. Keim. Space-in-time and time-in-space Self-Organizing Maps for exploring spatiotemporal patterns. *Wiley-Blackwell Computer Graphics Forum*, 29(3):913–922, 2010. (Proceedings of Eurographics/IEEE-VGTC Symposium on Visualization 2010). Peer-reviewed article.
- [AGS+15] A. Andreadis, R. Gregor, I. Sipiran, P. Mavridis, G. Papaioannou, and T. Schreck. Fractured 3D object restoration and completion. In *SIGGRAPH Poster*, 2015. Peer-reviewed poster abstract. To appear.
- [AJS+14] M. El Assady, W. Jentner, M. Stein, F. Fischer, T. Schreck, and D. Keim. Predictive visual analytics – approaches for movie ratings and discussion of open research challenges. In *Proc. IEEE VIS 2014 Workshop Visualization for Predictive Analytics*, 2014. Peer-reviewed paper, online publication.
- [BBC+10] R. Berndt, I. Blümel, M. Clausen, D. Damm, J. Diet, D. Fellner, C. Fremerey, R. Klein, F. Krahl, M. Scherer, T. Schreck, I. Sens, V. Thomas, and R. Wessel. The PROBADO project - approach and lessons learned in building a digital library system for heterogeneous non-textual documents. In *European Conference on Digital Libraries*, volume 6273 of *Lecture Notes in Computer Science*, pages 376–383. Springer, 2010. Peer-reviewed short paper.
- [BBF+11] E. Bertini, J. Buchmüller, F. Fischer, S. Huber, T. Lindemeier, F. Maaß, F. Mansmann, T. Ramm, M. Regenscheit, C. Rohrdantz, C. Scheible, T. Schreck, S. Sellien, F. Stoffel, M. Tautzenberger, M. Zieker, and D. Keim. Visual analytics of terrorist activities related to epidemics (VAST 2011 Grand Challenge Award). In *Proc. IEEE Symposium on Visual Analytics Science and Technology*, pages 329–330, 2011. Contest report paper.
- [BBK+09] R. Berndt, I. Blümel, H. Krottmaier, R. Wessel, and T. Schreck. Demonstration of user interfaces for querying in 3D architectural content in PROBADO3D. In *European Conference on Digital Libraries*, volume 5714 of *Lecture Notes in Computer Science*, pages 491–492. Springer, 2009. Peer-reviewed demonstration paper.
- [BDF+14a] M. Behrisch, J. Davey, F. Fischer, O. Thonnard, T. Schreck, D. Keim, and J. Kohlhammer. Visual analysis of sets of heterogeneous matrices using projection-based distance functions and semantic zoom. *Wiley-Blackwell Computer Graphics Forum (Proc. EuroVis 2014)*, 33(3):411–420, 2014. Peer-reviewed article.
- [BDF+14b] J. Bernard, D. Daberkow, D. Fellner, K. Fischer, O. Koepler, J. Kohlhammer, M. Runnwerth, T. Ruppert, T. Schreck, and I. Sens. Visinfo: a digital library system for time series research data based on exploratory search - a user-centered design approach. *Springer International Journal on Digital Libraries*, 2014. Published online first.
- [BKHS09] R. Berndt, H. Krottmaier, S. Havemann, and T. Schreck. The PROBADO-framework: Content-based queries for non-textual documents. In *International Conference on Electronic Publishing. AePIC*, 2009. Abstract-reviewed paper, online publication.
- [BKPS04] B. Bustos, D. Keim, C. Panse, and T. Schreck. 2D maps for visual analysis and retrieval in large multi-feature 3D model databases. In *IEEE Visualization. IEEE Computer Society*, 2004. Poster paper, DVDROM publication.

- [BKS+04] B. Bustos, D. Keim, D. Saupe, T. Schreck, and D. Vranić. Using entropy impurity for improved 3D object similarity search. In *IEEE International Conference on Multimedia and Expo*, pages 1303–1306. IEEE, 2004. Peer-reviewed full paper.
- [BKS+05] B. Bustos, D. Keim, D. Saupe, T. Schreck, and D. Vranić. Feature-based similarity search in 3D object databases. *ACM Computing Surveys*, 37:345–387, 2005. Peer-reviewed article.
- [BKSS07] B. Bustos, D. Keim, D. Saupe, and T. Schreck. Content-based 3D object retrieval. *IEEE Computer Graphics and Applications*, Special Issue on 3D Documents, 27 (4):22–27, 2007. Peer-reviewed article.
- [BKSS14] M. Behrisch, F. Korkmaz, L. Shao, and T. Schreck. Feedback-driven interactive exploration of large multidimensional data supported by visual classifier. In *Proc. IEEE Conference on Visual Analytics Science and Technology*, pages 43–52, 2014. Peer-reviewed full paper.
- [BLBS11] S. Bremm, T. von Landesberger, J. Bernard, and T. Schreck. Assisted descriptor selection based on visual comparative data analysis. *Wiley-Blackwell Computer Graphics Forum (Proc. EuroVis 2011)*, 30(3):891–900, 2011. Peer-reviewed article.
- [BS09] B. Bustos and T. Schreck. *Encyclopedia of Database Systems*, chapter Feature-Based 3D Object Retrieval, pages 1125–1128. Springer, 2009. Editors: L. Liu and T. Özsu.
- [BSW+12] B. Bustos, T. Schreck, M. Walter, J. Barrios, M. Schaefer, and D. Keim. Improving 3D similarity search by enhancing and combining 3D descriptors. *Springer Multimedia Tools and Applications*, 58(1):81–108, 2012. Peer-reviewed article.
- [BvLH+11] S. Bremm, T. v. Landesberger, M. Heß, T. Schreck, P. Weil, and K. Hamacher. Interactive comparison of multiple trees. In *Proc. IEEE Conference on Visual Analytics Science and Technology*, pages 31–40. IEEE Computer Society, 2011. Peer-reviewed full paper.
- [BWK+13] J. Bernard, N. Wilhelm, B. Krüger, T. May, T. Schreck, and J. Kohlhammer. MotionExplorer: Exploratory search in human motion capture data based on hierarchical aggregation. *IEEE Transactions on Visualization and Computer Graphics (Proc. VAST 2013)*, 19(12):2257–2266, 2013. Peer-reviewed article.
- [DHKS05] U. Dayal, M. Hao, D. Keim, and T. Schreck. Importance driven visualization layouts for large time-series data. In *IEEE Symposium on Information Visualization*, pages 27–34. IEEE Computer Society, 2005. Peer-reviewed full paper.
- [GBS+15] R. Gregor, D. Bauer, I. Sipiran, P. Perakis, and T. Schreck. Automatic 3D object fracturing for evaluation of partial retrieval and object restoration tasks - Benchmark and application to 3D cultural heritage data. In *Eurographics Workshop on 3D Object Retrieval*. Eurographics Association, 2015. Peer-reviewed full paper.
- [GLS+15] R. Gregor, A. Lamprecht, I. Sipiran, T. Schreck, and B. Bustos. Empirical evaluation of dissimilarity measures for 3D object retrieval with application to multi-feature retrieval. In *Proc. 13th International Workshop on Content-Based Multimedia Indexing*, 2015. Peer-reviewed paper.

- [GSP+14] R. Gregor, I. Sipiran, G. Papaioannou, T. Schreck, A. Andreadis, and P. Mavridis. Towards automated 3D reconstruction of defective cultural heritage objects. In Proc. EG Workshop on Graphics and Cultural Heritage, pages 135–144. Euro-graphics, 2014.
- [HKDS07] M. Hao, D. Keim, U. Dayal, and T. Schreck. Multi-resolution techniques for visual exploration of large time-series data. In Eurographics/IEEE-VGTC Symposium on Visualization, pages 27–34. Eurographics Association, 2007. Peer-reviewed full paper.
- [JFSK15] D. Jäckle, F. Fischer, T. Schreck, and D. Keim. Temporal MDS plots for analysis of multivariate data. In Proc. IEEE Conference on Visual Analytics Science and Technology, 2015. Peer-reviewed full paper. To appear.
- [JSS+14] H. Janetzko, D. Sacha, M. Stein, T. Schreck, D. Keim, and O. Deussen. Feature-driven visual analytics of soccer data. In Proc. IEEE Conference on Visual Analytics Science and Technology, pages 13–22, 2014. Peer-reviewed full paper.
- [KNS+06] D. Keim, T. Nietzschmann, N. Schelwies, J. Schneidewind, T. Schreck, and H. Ziegler. A spectral visualization system for analyzing financial time series data. In Eurographics/IEEE-VGTC Symposium on Visualization, pages 195–202. Eurographics Association, 2006. Peer-reviewed full paper.
- [LLG+14] B. Li, Y. Lu, A. Godil, T. Schreck, B. Bustos, A. Ferreira, T. Furuya, M. Fonseca, H. Johan, T. Matsuda, R. Ohbuchi, P. Pascoal, and J. Saavedra. A comparison of methods for sketch-based 3D shape retrieval. Elsevier Computer Vision and Image Understanding, 119:57–80, February 2014. Peer-reviewed article.
- [LLL+14] B. Li, Y. Lu, C. Li, A. Godil, T. Schreck, M. Aono, M. Burtscher, Q. Chen, N. Chowdhury, B. Fang, H. Fu, T. Furuya, H. Li, J. Liu, H. Johan, R. Kosaka, H. Koyanagi, R. Ohbuchi, A. Tatsuma, Y. Wan, C. Zhang, and C. Zou. A comparison of 3D shape retrieval methods based on a large-scale benchmark supporting multimodal queries. Elsevier Computer Vision and Image Understanding, 131:1–27, 2014. Peer-reviewed article.
- [PZS+15] D. Pérez, L. Zhang, M. Schäfer, T. Schreck, D. Keim, and I. Díaz. Interactive feature space extension for multidimensional data projection. Neurocomputing, 150, Part B:611–628, 2015. Peer-reviewed article, to appear.
- [SBS11] M. Scherer, J. Bernard, and T. Schreck. Retrieval and exploratory search in multivariate research data repositories using regressional features. In Proc. ACM/IEEE Joint Conference on Digital Libraries, pages 363–372, 2011. Peer-reviewed full paper.
- [SBS13a] H. Senaratne, A. Bröring, and T. Schreck. Using reverse viewshed analysis to assess the location correctness of visually generated VGI. Wiley-Blackwell Transactions in GIS, 17(3):369–386, June 2013. Peer-reviewed article.
- [SBS13b] I. Sipiran, B. Bustos, and T. Schreck. Data-aware 3D partitioning for generic shape retrieval. Computers & Graphics Special Issue on 3D Object Retrieval, 37(5):460–472, August 2013. Peer-reviewed article.
- [SBS+14] L. Shao, M. Behrisch, T. Schreck, T. v. Landesberger, M. Scherer, S. Bremm, and D. Keim. Guided sketching for visual search and exploration in large scatter plot spaces. In

Proc. EuroVA International Workshop on Visual Analytics, pages 19–23, 2014. Peer-reviewed short paper.

[SBS+15] I. Sipiran, B. Bustos, T. Schreck, A. Bronstein, S. Choi, L. Lai, H. Li, R. Litman, and L. Sun. SHREC'15: Scalability of non-rigid 3D shape retrieval. In Eurographics Workshop on 3D Object Retrieval. Eurographics Association, 2015. Peer-reviewed track report paper.

[SBSL14] H. Senaratne, A. Bröring, T. Schreck, and D. Lehle. Moving on Twitter: Using episodic hotspot and drift analysis to detect and characterise spatial trajectories. In Proc. ACM SIGSPATIAL International Workshop on Location-Based Social Networks, 2014. Peer-reviewed paper.

[SBTK09] T. Schreck, J. Bernard, T. Tekušová, and J. Kohlhammer. Visual cluster analysis of trajectory data with interactive Kohonen maps. *Palgrave MacMillan Information Visualization*, 8:14–29, 2009. Peer-reviewed article.

[SBW09] T. Schreck, B. Bustos, and M. Walter. A query-by-example concept and user interface for global and partial 3D object retrieval. In EG Workshop on 3D Object Retrieval. Eurographics Association, 2009. Peer-reviewed poster paper, CDROM publication.

[SGS14] I. Sipiran, R. Gregor, and T. Schreck. Approximate symmetry detection in partial 3D meshes. *Wiley Computer Graphics Forum*, 33(7):131–140, 2014.

[SK13] T. Schreck and D. Keim. Visual analysis of social media data. *IEEE Computer, Special Issue on Cutting-Edge Research in Visualization*, 46(5):68–75, May 2013. Peer-reviewed article.

[SMB+14] I. Sipiran, R. Meruane, B. Bustos, T. Schreck, B. Li, Y. Lu, and H. Johan. A benchmark of simulated range images for partial shape retrieval. *The Visual Computer*, 30:1293 – 1308, 2014. Peer-reviewed article, published online May 08, 2014.

[SOK+15] H. Strobel, D. Oelke, B.C. Kwon, T. Schreck, and Hp. Pfister. Guidelines for effective usage of text highlighting techniques. *IEEE Transactions on Visualization and Computer Graphics (Proc. InfoVis)*, 2015. Peer-reviewed full paper. To appear.

[SSB+15] L. Shao, T. Schleicher, M. Behrisch, T. Schreck, I. Sipiran, and D. Keim. Guiding the exploration of scatter plot data using motif-based interest measures. In *IEEE International Symposium on Big Data Visual Analytics*, 2015. Peer reviewed full paper. To appear.

[SvLB10] T. Schreck, T. von Landesberger, and S. Bremm. Techniques for precision-based visual analysis of projected data. *Palgrave MacMillan Information Visualization*, 9(3):181–193, 2010. Peer-reviewed article.

[SvLS12] M. Scherer, T. v. Landesberger, and T. Schreck. A benchmark for content-based retrieval in bivariate data collections. In *Proc. International Conference on Theory and Practice of Digital Libraries*, pages 286–297, 2012. Peer-reviewed full paper.

[SvLS13] M. Scherer, T. v. Landesberger, and T. Schreck. Visual-interactive querying for multivariate research data repositories using bag-of-words. In *Proc. ACM/IEEE Joint Conference on Digital Libraries*, pages 285–294, 2013. Peer-reviewed full paper.

- [SWS10] M. Scherer, M. Walter, and T. Schreck. Histograms of oriented gradients for 3D model retrieval. In *International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision*, pages 41–48. University of West Bohemia, Plzen, 2010. Peer-reviewed full paper.
- [TMF+12] A. Tatu, F. Maaß, I. Färber, E. Bertini, T. Schreck, T. Seidl, and D. Keim. Subspace search and visualization to make sense of alternative clusterings in high-dimensional data. In *Proc. IEEE Conference on Visual Analytics Science and Technology*, pages 63–72, 2012. Peer-reviewed full paper.
- [TZB+12] A. Tatu, L. Zhang, E. Bertini, T. Schreck, D. Keim, S. Bremm, and T. von Landesberger. Clustnails: Visual analysis of subspace clusters. *Tsinghua Science and Technology*, 17(4):419–428, 2012. Peer-reviewed article.
- [vLBSF14] T. von Landesberger, S. Bremm, T. Schreck, and D. Fellner. Feature-based automatic identification of interesting data segments in group movement data. *Sage Information Visualization*, 13(3):190–212, 2014. Peer-reviewed article.
- [vLGS09] T. von Landesberger, M. Görner, and T. Schreck. Visual analysis of graphs with multiple connected components. In *IEEE Symposium on Visual Analytics Science and Technology*, pages 155–162. IEEE Computer Society, 2009. Peer-reviewed full paper.
- [vLKS+11] T. von Landesberger, A. Kuijper, T. Schreck, J. Kohlhammer, J. van Wijk, J.-D. Fekete, and D. Fellner. Visual analysis of large graphs: State-of-the-art and future research challenges. *Wiley-Blackwell Computer Graphics Forum*, 30 (6):1719–1749, 2011. Peer-reviewed article.
- [vLSFK12] T. von Landesberger, T. Schreck, D. Fellner, and J. Kohlhammer. Expanding the Frontiers of Visual Analytics and Visualization, chapter *Visual Search and Analysis in Complex Information Spaces - Approaches and Research Challenges*, pages 45–68. Springer, 2012. Editors: J. Dill and R. Earnshaw and D. Kasik and J. Vince and P. Wong.
- [YSSK10] S. Yoon, M. Scherer, T. Schreck, and A. Kuijper. Sketch-based 3D model retrieval using diffusion tensor fields of suggestive contours. In *ACM Multimedia*, pages 193–200. ACM, 2010. Peer-reviewed full paper.
- [YYKS15] S.-M. Yoon, G.-J. Yoon, and T. Schreck. User-drawn sketch-based 3D object retrieval using sparse coding. *Springer Multimedia Tools and Applications*, 74(13):4707–4722, 2015. Peer-reviewed article.
- [ZSB+12] L. Zhang, A. Stoffel, M. Behrisch, S. Mittelstädt, T. Schreck, R. Pompl, S. Weber, H. Last, and D. Keim. Visual analytics for the big data era – a comparative review of state-of-the-art commercial systems. In *Proc. IEEE Symposium on Visual Analytics Science and Technology*, pages 173–182, 2012. Peer-reviewed full paper.