Scalable analysis and visualization of high-dimensional astronomical data sets

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Publications

Papers in scientific journals

Bilkis J. Ferdosi and Jos B. T. M. Roerdink. "Visualizing high-dimensional structures by dimension ordering and filtering using subspace analysis", **Computer Graphics Forum**, 2011. To appear.

B. J. Ferdosi, H. Buddelmeijer, S. Trager, M. H. F. Wilkinson, and J. B. T. M. Roerdink. "Finding and Visualizing Relevant Subspaces for Clustering High-Dimensional Data Using Connected Morphological Operators". Invited paper in the journal **Information Visualization**. Submitted.

Bilkis J. Ferdosi, H. Buddelmeijer, S. Trager, M. H. F. Wilkinson, and Jos B. T. M. Roerdink. "Comparison of Density Estimation Methods for Astronomical Datasets". **Astronomy & Astrophysics**. To appear.

Full papers in conference proceedings

B. J. Ferdosi, H. Buddelmeijer, S. Trager, M. H. F. Wilkinson, and J. B. T. M. Roerdink. "Finding and visualizing relevant subspaces for clustering high-dimensional astronomical data using connected morphological operators". **IEEE Conference on Visual Analytics Science and Technology (IEEE VAST)**. Saltlake city, USA, :35-42, October 2010. `http://dx.doi.org/10.1109/VAST.2010.5652450`

Other publications

B . J. Ferdosi, H. Buddelmeijer, A. Helmi, S. C. Trager, E. A. Valentijn, M. H. F. Wilkinson, J. M. van der Hulst, and J. B. T. M. Roerdink, "Comparison of Density Estimation Methods for Astronomical Datasets", *SIREN: Scientific ICT Research Event Netherlands*, November 5, 2009, Twente (poster).

B . J. Ferdosi, H. Buddelmeijer, A. Helmi, S. C. Trager, E. A. Valentijn, M. H. F. Wilkinson, J. M. van der Hulst, and J. B. T. M. Roerdink, "Visualizing Astronomical Data", *SIREN: Scientific ICT Research Event Netherlands*, September 29, 2008, Amsterdam, (poster).

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