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Scalable analysis and visualization of high-dimensional astronomical data sets

Ferdosi, Bilkis Jamal

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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).

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, “Visualization of Very Large High-Dimensional Astronomical Data Sets”, *SIREN: Scientific ICT Research Event Netherlands*, 30 October 2007, Delft, (poster).