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Contributed papers

Robust Statistics I

J. Raymaekers. A measure of directional outlyingness with applications to image data and video.

Y. Wang. Independence screening using robust sparse principal component analysis.

H. Cevallos Valdiviezo. Least trimmed squares estimators for functional principal component analysis.

S. Hoppner. On sparse directions of maximal outlyingness.

Biomedics

M. Lopes. Consensus outlier detection in triple-negative breast cancer gene expression data.

C. Arenas. Detection of differentially expressed genes by means of outlier detection.

L. De Mot. Transcriptional profiling of response to the candidate tuberculosis vaccine M72/AS01E for trial sampling time-point selection.

A. Tavares. Clustering DNA words through distance distributions.

Clustering

N. Bozkus. Lifting and Clustering.

S. Lubbe. Visualisations associated with bootstrapping cluster analysis.

N. C. Chung. Evaluation of Membership Reliability in K-mean Clusters.

R. Wehrens. Data fusion with self-organizing maps.

Robust Statistics II

P. Segaert. Robust joint modelling of mean and dispersion for the GLM framework.

A. Kharin. Performance and robustness in statistical testing of hypotheses for data with Markov dependencies.

R. Crevits. Forecasting with Robust Exponential Smoothing with Trend and Seasonality.

Regression and Beyond

P. Macedo. Entropy in high-dimensional variable selection.

J. Wagner. Regularized B-Spline Regression for High-Dimensional Scattered Data.

M. Costa. Contributions to the analysis of inhomogeneous large-scale data using maximum entropy.



Tools for Data Analytics

T. Savage. Providing analysts the tools they need within a modern National Statistical Office.

M. Rupp. A flexible optimization tool for multivariate optimal allocation problems under high dimensional data.

V. Ardelean. Data Analysis with contaminated Data.

Applications I

M. Casquilho. Computing over the Internet applied to data visualization: an illustrative example in Geometry.

J. M. Sanchez-Gomez. Using Word Clouds as an e-Learning Analytics Tool based on Data Visualization and Statistics.

D. Alptekin. Economic Growth and Tourism in Turkey: Hsiao's Granger Causality Analysis.

Big Data Platforms

P. Calado. Matching Records for Census Data.

E. J. Harner. Rspark: Running R and Spark in Docker Containers.

L. Borke. BitQuery: a GitHub API driven and D3 based search engine for open source repositories.

Inference

R. Li. Exact distribution of a modified Behrens-Fisher statistic.

T. Arslan. Estimating the location and scale parameters of the Maxwell distribution.



D. Kushary. Estimation of Percentile of Marginal Distribution of Order Statistic with real life application.

L. Qu. Copula Density Estimation by Lagrange Interpolation at the Padua Points.

Time and Space

P. Otto. Estimation, Simulation, and Visualization of Spatial and Spatiotemporal Autoregressive Conditional Heteroscedasticity.

M. H. Gonçalves. Performance of statistical approaches to model binary responses in longitudinal studies.

B. Alptekin. Air Pollution Forecasting with Time Series Neural Networks Models.

C. Santos. Periodic multivariate INAR processes.

Visualisation I

A. Zammit-Mangion. Visualization for Large-scale Gaussian Updates.

C. Bors. Visual Support for Rastering of Unequally Spaced Time Series.

D.-H. Jang. Visualization of Three-Dimensional Data with Virtual Reality.

M. Gallo. R visual Tools for 3-way data analysis.

Applications II

F. Akgül. Alternative distributions to Weibull for modeling the wind speed data in wind energy analysis.

A. Sousa. Hierarchical Cluster Analysis in the context of performance evaluation: From classical to complex data.

P. Brito. Building a map of Europe based on citizens values: an interval data approach.



M. S. Bahadori. Statistical analysis of pedestrian control features, Case study: Lisbon-Portugal.

Methods for Data Science

S. Zhang. More powerful test procedures for large scale hypothesis testing.

E. Stoimenova. Incomplete ranking.

A. Freitas. Clustering and Disjoint Principal Component Analysis: an empirical comparison of two approaches.

Visualisation II

J. Nienkemper-Swanepoel. The virtues and pitfalls of the visualisation of incomplete categorical data.

A. de Falguerolles. Is Arthur Batut's geometric experiment a convincing argument in favor Francis Galton's generic images?

V. Choulakian. Visualization of sparse two-way contingency tables.

A. Silva. Cyclical history theory in data visualization: using a four-quadrant display to see history repeating itself.

