

# **Advances in Data Analysis and Classification (ADAC)**

*Contents of Vol. 1 (2007) – Vol. 12 (2018)*

March 2018

## **Issue 1 of volume 12 (2018)**

### **Special Issue on ‘Analysis of asymmetric relationships’**

*Guest Editors: Giuseppe Bove, Akinori Okada*

*Giuseppe Bove, Akinori Okada:*

- Methods for the analysis of asymmetric pairwise relationships (5-31)

*John C. Gower:*

- Skew Symmetry in Retrospect (33-41)

*Donatella Vicari:*

- CLUSKEXT: CLUstering model for SKew-symmetric data including EXTERNAL information (43-64)

*Gunnar Carlsson, Facundo Mémoli, Alejandro Ribeiro, Santiago Segarra:*

- Hierarchical clustering of asymmetric networks (65-105)

*Mark de Rooij:*

- Transitional modelling of experimental longitudinal data with missing values (107-130)

*Marti Sagarra, Frank M.T.A. Busing, Cecilio Mar-Molinero, Josep Rialp:*

- Assessing the asymmetric effects on branch rivalry of Spanish financial sector restructuring (131-153)

*Daniel Baier, Sarah Frost:*

- Relating brand confusion to ad similarities and brand strengths through image data analysis and classification (155-171)

## **Issue 4 of volume 11 (2017)**

### **Special Issue on ‘Fuzzy data analysis and classification’**

*Guest Editors: Pierpaolo D’Urso, Maria A. Gil*

*Pierpaolo D’Urso, María Ángeles Gil:*

- Fuzzy data analysis and classification – special issue in memoriam of Professor Lotfi A. Zadeh, father of fuzzy logic (645-657)

*Benjamin Quost, Thierry Denœux, Shoumei Li:*

- Parametric classification with soft labels using the evidential EM algorithm. Linear discriminant analysis versus logistic regression (659-690)

*Francesco Dotto, Alessio Farcomeni, Luis Angel García-Escudero, Agustín Mayo-Iscar:*

- A fuzzy approach to robust regression clustering (691-710)

*Alberto Fernández, Sara del Río, Abdullah Bawakid, Francisco Herrera:*

- Fuzzy rule based classification systems for big data with MapReduce: granularity analysis (711-730)

*Sara de la Rosa de Súa, María Asunción Lubiano, Beatriz Sinova, Peter Filzmoser:*

- Robust scale estimators for fuzzy data (731-758)

*Rong Zhang, Baabak Ashuri, Yong Deng:*

- A novel method for forecasting time series based on fuzzy logic and visibility graph (759-783)

*Abdul Suleman:*

- On ill-conceived initialization in archetypal analysis (785-808)

### **Issue 3 of volume 11 (2017)**

*Mia Hubert, Peter Rousseeuw, Pieter Segaert:*

- Multivariate and functional classification using depth and distance (445-466)

*Christina Yassouridis, Friedrich Leisch:*

- Benchmarking different clustering algorithms on functional data (467-492)

*Marek Śmieja, Magdalena Wiercioch:*

- Constrained clustering with a complex cluster structure (493-518)

*Zahid A. Ansari, Syed Abdul Sattar, A. Vinaya Babu:*

- A fuzzy neural network based framework to discover user access patterns from web log data (519-546)

*Vaishali Mirge, Kesari Verma, Shubrata Gupta:*

- Dense traffic flow patterns mining in bi-directional road networks using density based trajectory clustering (547-561)

*Maurizio Vichi:*

- Disjoint factor analysis with cross-loadings (563-591)

*Leila Amiri, Mojtaba Khazaei, Mojtaba Ganjali:*

- General location model with factor analyzer covariance matrix structure and its applications (593-609)

*E. Emary, Hossam M. Zawbaa, Aboul Ella Hassanien, B. Parv:*

- Multi-objective retinal vessel localization using flower pollination search algorithm with pattern search (611-627)

*Thao Nguyen-Trang, Tai Vo-Van:*

- A new approach for determining the prior probabilities in the classification problem by Bayesian method (629-643)

### **Issue 2 of volume 11 (2017)**

*Karel Hron, Paula Brito, Peter Filzmoser:*

- Exploratory data analysis for interval compositional data (223-241)

*Emilie Devijver:*

- Model-based regression clustering for high-dimensional data: application to functional data (243-279)

*Gerhard Tutz, Micha Schneider, Mario Iannario, Domenico Piccolo:*

- Mixture models for ordinal responses to account for uncertainty of choice (281-305)

*Julio César Hernández Sánchez, José Luis Vicente-Villardón:*

- Logistic biplot for nominal data (307-326)

*Jennifer Le-Rademacher, Lynne Billard:*

- Principal component analysis for histogram-valued data (327-351)

*Panagiotis Tzirakis, Christos Tjortjis:*

- T3C: improving a decision tree classification algorithm's interval splits on continuous attributes (353-370)

*Stephen L. France, Wen Chen, Yumin Deng:*

- ADCLUS and INDCLUS: analysis, experimentation, and meta-heuristic algorithm extensions (371-393)

*Nadia Solaro, Alessandro Barbiero, Giancarlo Manzi, Pier Alda Ferrari:*

- A sequential distance-based approach for imputing missing data: Forward imputation (395-414)

*Mario Michael Krell, Sirko Straube:*

- Backtransformation: a new representation of data processing chain with a scalar decision function (415-439)

## **Issue 1 of volume 11 (2017)**

*Alejandro Cholaquidis, Antonio Cuevas, Ricardo Fraiman:*

- On visual distances for spectrum-type functional data (5-24)

*Andri Mirzal:*

- NMF versus ICA for blind source separation (25-48)

*Nathalie Girard, Karell Beret, Muriel Visani:*

- Dichotomic lattices and local discretization for Galois lattices (49-77)

*Wenxin Zhu, Ping Zhong:*

- Minimum class variance SVM+ for data classification (79-96)

*Margret-Ruth Oelker, Gerhard Tutz:*

- A uniform framework for the combination of penalties in generalized structured models (97-120)

*Caterina Liberati, Furio Camillo, Gilbert Saporta:*

- Advances in credit scoring: combining performance and interpretation in kernel discriminant analysis (121-138)

*Maurizio Carpita, Enrico Ciavolino:*

- A generalized maximum entropy estimator to simple linear measurement error model with a composite indicator (139-158)

*Wolfgang Gaul, Dominique Vincent:*

- Evaluation of the evolution of relationships between topics over time (159-178)

*Vincenzo Spinelli*

- Supervised box clustering (179-204)

*Carlos Alberto Lara, Leonardo Romero, Cuauhtémoc Gómez:*

- Multiple straight-line fitting using Bayes factor (205-218)

#### **Issue 4 of volume 10 (2016)**

#### **Second Special Issue on “Advances in Latent Variables: Methods, Models, and Applications”**

*Guest editors: Angela Montanari, Maurizio Vichi*

*Cristina Tortora, Paul D. McNicholas, Ryan P. Browne:*

- A mixture of generalized hyperbolic factor analyzers (423-440)

*Cristina Tortora, Mireille Gettler-Summa, Marina Marino, Francesco Palumbo:*

- Factor probabilistic distance clustering (FPDC): a new clustering method (441-464)

*Piergiorgio Lovaglio, Gianmarco Vacca, Stefano Verzillo:*

- Human capital estimation in higher education (465-489)

*Cristina Davino, Vincenzo Esposito Vinzi:*

- Quantile composite-based path modeling (491-520)

*Arthur White, Thomas Bredan Murphy:*

- Exponential family mixed membership models for soft clustering of multivariate data (521-540)

*Reyhaneh Rikhtehgaran, Iraj Kazemi:*

- The determination of uncertainty levels in robust clustering of subjects with longitudinal observations using the Dirichlet process mixture (541-562)

*Semhar Michael, Volodymyr Melnykov:*

- An effective strategy for initializing the EM algorithm in finite mixture models (563-583)

#### **Issue 3 of volume 10 (2016)**

*Vincenzo Spinelli:*

- Pruning boxes in a box-based classification method (285-304)

*Henrik Nyman, Jie Xiong, Johan Pensar, Jukka Corander:*

- Marginal and simultaneous predictive classification using stratified graphical models (305-326)

*Volodymyr Melnykov, Igor Melnykov, Semhar Michael:*

- Semi-supervised model-based clustering with positive and negative constraints (327-349)

*Tiziano Bellini:*

- The forward search interactive outlier detection in cointegrated VAR analysis (351-373)

*Hussein Hashem, Veronica Vinciotti, Rahim Alhamzawi, Keming Yu:*

- Quantile regression with group lasso for classification (375-390)

*Borja Lafuente-Rego, José A. Vilar:*

- Clustering of time series using quantile autocovariances (391-415)

## **Issue 2 of volume 10 (2016)**

### **Special Issue on ‘Advances in Latent Variables: Methods, Models, and Applications’**

*Guest editors: Angela Montanari, Maurizio Vichi*

*Margot Bennink, Marcel A. Croon, Brigitte Kroon, Jeroen K. Vermunt:*

- Micro-macro multilevel latent class models with multiple discrete individual-level variables (139-154)

*Damien McParland, Isobel Claire Gormley:*

- Model based clustering for mixed data: clustMD (155-169)

*Daniel L. Oberski:*

- Beyond the number of classes: separating substantive from non-substantive dependence in latent class analysis (171-182)

*Matthieu Marbac, Christophe Biernacki, Vincent Vandewalle:*

- Latent class model with conditional dependency per modes to cluster categorical data (183-207)

*Fetene B. Tekle, Dereje W. Gudicha, Jeroen K. Vermunt:*

- Power analysis for the bootstrap likelihood ratio test for the number of classes in latent class models (209-224)

*Anna Gottard, Maria Iannario, Domenico Piccolo:*

- Varying uncertainty in CUB models (225-244)

*Francesco Bartolucci, Giorgio E. Montanari, Silvia Pandolfi:*

- Item selection by latent class-based methods: an application to nursing home evaluation (245-262)

*Francesca Bassi:*

- Dynamic segmentation with growth mixture models (263-279)

### **Issue 1 of volume 10 (2016)**

*Vincent Augidier, François Husson, Julie Josse:*

- A principal component method to impute missing values for mixed data (5-26)

*Che Ngufor, Janusz Wojtusiak:*

- Extreme logistic regression (27-52)

*Michela Gnaldi, Silvia Bacci, Francesco Bartolucci*

- A multilevel finite mixture item response model to cluster examinees and schools (53-70)

*Matthijs J. Warrens:*

- A comparison of reliability coefficients for psychometric tests that consist of two parts (71-84)

*Mingkun Chen, Evelyne Vigneau:*

- Supervised clustering of variables (85-101)

*Gulliermo Vinué, Amelia Simó, Sandra Alemany*

- The k-means algorithm for 3D shapes with an application to apparel design (103-132)

### **Issue 4 of volume 9 (2015)**

#### **Special issue on 'New Trends on Model-based Classification and Clustering'**

*Guest editors: Salvatore Ingrassia, Geoffrey J. McLachlan, Gérard Govaert*

*Hien D. Nguyen, Geoffrey J. McLachlan:*

- Maximum likelihood estimation of Gaussian mixture models without matrix operations (371-394)

*Lucca Scrucca, Adrian E. Raftery:*

- Improved initialisation of model-based clustering using Gaussian hierarchical partitions (395-422)

*Xuwen Zhu, Volodymyr Melnykov:*

- Probabilistic assessment of model-based clustering (423-445)

*Wan-Lun Wang, Tsung-I Lin:*

- Robust model-based clustering via mixtures of skew-t distributions with missing information (447-460)

*Marco Riani, Andrea Cerioli, Domenico Perrotta, Francesca Torti:*

- Simulating mixtures of multivariate data with fixed cluster overlap in FSDA (461-481)

*M. Francesca Marino, Marco Alfò:*

- Latent drop-out based transitions in linear quantile hidden Markov models for longitudinal responses with attrition (483-502)

### **Issue 3 of volume 9 (2015)**

*Naoto Yamashita, Shin-ichi Mayekawa:*

- A new biplot procedure with joint classification of objects and variables by fuzzy c-means clustering (243-266)

*Serge Iovleff:*

- Probabilistic auto-associative models and semi-linear PCA (267-286)

*Pavlo Mozharovskyi, Karl Mosler, Tatjana Lange:*

- Classifying real-world data with the  $D_{\alpha}$ -procedure (287-314)

*Edoardo Otranto, Romana Gargano:*

- Financial clustering in presence of dominant markets (315-339)

*Uroš Droftina, Mitja Štular, Andrej Košr:*

- A diffusion model for churn prediction based on sociometric theory (341-365)

### **Issue 2 of volume 9 (2015)**

*Monica Bécue-Bertaut, Jérôme Pagès:*

- Correspondence analysis of textual data involving contextual information: CA-GALT on principal components (125-142)

*Antonio Irpino, Rosanna Verde:*

- Basic statistics for distributional symbolic variables: a new metric-based approach (143-175)

*Jean-Patrick Baudry, Margarida Cardoso, Gilles Celeux, Maria José Amorim, Ana Sousa Ferreira*

- Enhancing the selection of a model-based clustering with external categorical variables (177-196)

*Yuhong Wei, Paul D. McNicholas:*

- Mixture model averaging for clustering (197-217)

*Niël J. Le Roux, Patrick J.F. Groenen, Sugnet Gardner-Lubbe:*

- Spline-based nonlinear biplots (219-238)

### **Issue 1 of volume 9 (2015)**

#### **Special issue on 'Symbolic Data Analysis'**

*Guest editors: Paula Brito, Monique Noirhomme-Fraiture, Javier Arroyo*

*Paolo Giordani:*

- Lasso-constrained regression analysis for interval-valued data (5-19)

*Pierpaolo d'Urso, Livia De Giovanni, Riccardo Massari:*

- Trimmed fuzzy clustering for interval-valued data (21-40)

*Paulo M.M. Rodrigues, Nazarii Salish:*

- Modeling and forecasting interval time series with threshold models (41-57)

*Meiling Chen, Huiwen Wang, Zhongfeng Qin:*

- Principal component analysis for probabilistic symbolic data: a more generic and accurate algorithm (59-79)

*Antonio Irpino, Rosanna Verde:*

- Linear regression for numeric symbolic variables: a least squares approach based on Wasserstein distance (81-106)

*Christiane Guinot, Denis Malvy, Jean-Francois Schémann, Filipe Afonso, Raja Haddad, Edwin Diday:*

- Strategies evaluation in environmental conditions by symbolic data analysis: application to medicine and epidemiology to trachoma (107-119)

#### **Issue 4 of volume 8 (2014)**

*Fabrizio Durante, Roberta Pappadà, Nicola Torelli:*

- Clustering of financial time series in risky scenarios (359-376)

*Zhiliang Liu, Xiaomin Zhao, Ming J. Zuo, Hongbing Xu:*

- Feature selection for fault level diagnosis of planetary gearboxes (377-401)

*Lisa L. Doove, Elise Dusseldorp, Kathrijn Van Deun, Iven Van Mechelen:*

- A comparison of five recursive partitioning methods to find person subgroups involved in meaningful treatment-subgroup interactions (403-425)

*Ewa Genge:*

- A latent class analysis of the public attitude towards the euro adoption in Poland (427-442)

#### **Issue 3 of volume 8 (2014)**

##### **Special issue on ‘New perspectives in functional data analysis’**

*Guest editors: J.O. Ramsey, R. Verde, C. Weihs*

*Julien Jacques, Cristian Preda:*

- Functional data clustering: a survey (231-255)

*Maria D. Ruiz-Medina, Rosa M. Espejo, Elvira Romano:*

- Spatial functional normal mixed effect approach for curve classification (257-285).

*Matilde Dalla Rosa, Laura M. Sangalli, Simone Vantini:*

- Principal differential analysis of the Aneurisk65 data set (287-302)

*H. Haghbin, Z. Shishebor, A.R. Soltani:*

- Hilbertian spatial periodically correlated first order autoregressive models (303-319)

*Sara López-Pintado, Ying Sun, Juan K. Lin, Marc G. Genton:*

- Simplicial band depth for multivariate functional data (321-338)



*Livio Corain, Viatcheslav B. Melas, Andrey Pepelyshev, Luigi Salmaso:*

- New insights on permutation approach for hypothesis testing on functional data (339-356)

### **Issue 2 of volume 8 (2014)**

*Silvia Bacci, Silvia Pandolfi, Fulvia Pennoni:*

- A comparison of some criteria for states selection in latent Markov model for longitudinal data (125-145)

*Luca Scrucca:*

- Graphical tools for model-based mixture discriminant analysis (147-165)

*Sanjeena Subedi, Paul M. McNicholas:*

- Variational Bayes approximations for clustering via mixtures of normal inverse Gaussian distributions (167-193)

*Tobias Voigt, Roland Fried, Michael Backes, Wolfgang Rhode:*

- Threshold optimization for classification in imbalances data in a problem of gamma-ray astronomy (195-216)

*Ryan P. Browne, Paul D. McNicholas:*

- Estimating common principal components in high dimensions (217-226)

### **Issue 1 of volume 8 (2014)**

#### **Special issue on 'Model-based clustering and classification' (part 2)**

*Guest editors: Hans-Hermann Bock, Salvatore Ingrassia, Jeroen K. Vermunt*

*Andrea Cerioli, Domenico Perrotta:*

- Robust clustering around regression lines with high density regions (5-26)

*Luis Angel Garcia-Escudero, Alfonso Gordaliza, Agustin Mayo Isac:*

- A constrained robust proposal for mixture modeling avoiding spurious solutions (27-43)

*Sakyajit Bhattacharya, Paul D. McNicholas:*

- A LASSO-penalized BIC for mixture model selection (45-61)

*Stefanie Kalus, Philipp G. Sämann, Ludwig Fahrmeir:*

- Classification of brain activation via spatial Bayesian variable selection in fMRI regression (63-83)

*M. Salter-Townshend, T.B. Murphy:*

- Mixtures of biased sentiment analysers (85-103)

*Leonardo Grilli, Maria Iannario, Domenico Piccolo, Carla Rampichini:*

- Latent Class CUB Models (105-119)

### **Issue 4 of volume 7 (2013)**

*Noriyoshi Sukegawa, Yoshitsugu Yamamoto, Liyan Zhang:*

- Lagrangian relaxation and pegging test for the clique partitioning problem (363-391)

*Faisal Maqbool Zahid, Gerhard Tutz:*

- Multinomial logit models with implicit variable selection (393-416)

*Liming Yang, Laisheng Wang:*

- A class of semi-supervised support vector machines by DC programming (417-433)

*Marcelo Keese Albertini, Rodrigo Fernandes de Mello:*

- Energy-based function to evaluate data stream clustering (435-464)

*Wentao Fan, Nizar Bouguila:*

- Infinite Dirichlet mixture models learning via expectation propagation (465-489)

### **Issue 3 of volume 7 (2013)**

#### **Special issue on 'Model-based clustering and classification' (part 1)**

*Guest editors: Hans-Hermann Bock, Salvatore Ingrassia, Jeroen K. Vermunt*

*Sharon X. Lee, Geoffrey J. McLachlan:*

- On mixtures of skew normal and skew t-distributions (241-266)

*Daniel L. Oberski, Geert H. van Kollenburg, Jeroen K. Vermunt:*

- A Monte Carlo evaluation of three methods to detect local dependence in binary data latent class models (267-279)

*Anastasios Bellas, Charles Bouveyron, Marie Cottrell, Jérôme Lacaille:*

- Model-based clustering of high dimensional data streams with online mixture of probabilistic PCA (281-300)

*Angela Montanari, Daniela G. Calò:*

- Model-based clustering of probability density functions (301-319)

*Katherine Morris, Paul D. McNicholas, Luca Scrucca:*

- Dimension reduction for model-based clustering via mixtures of multivariate t-distributions (321-338)

*Nema Dean, Rebecca Nugent:*

- Clustering student skill set profiles in a unit hypercube using mixtures of multivariate betas (339-357)

### **Issue 2 of volume 7 (2013)**

*Ricardo Fraiman, Badih Ghattas, Marcela Svarc:*

- Interpretable clustering using unsupervised binary trees (125-145)

*Susanna Röblitz, Marcus Weber:*

- Fuzzy spectral clustering by PCCA+: application to Markov state models and data classification (147-179)

*Hamid Parvin, Behrouz Minaei-Bidgoli:*

- A clustering ensemble framework based on elite selection of weighted clusters (181-208)

*Simone Fiori:*

- An isotonic trivariate statistical regression method (209-235)

### **Issue 1 of volume 7 (2013)**

*Sanjeena Subedi, Antonio Punzo, Salvatore Ingrassia, Paul D. McNicholas:*

- Clustering and classification via cluster-weighted factor analyzers (5-40)

*Matthijs J. Warrens:*

- Cohen's weighted kappa with additive weights (41-55)

*Tianyn Tan, Hye Won Suk, Heungsun Hwang, Jooseop Lim:*

- Functional fuzzy clusterwise regression analysis (57-82)

*Sijia Liu, Anastasios Matzavinos, Sunder Sethuraman:*

- Random walk distances in data clustering and applications (83-108)

*Yuka Araki, Atsushi Kawaguchi, Fumio Yamashita:*

- Regularized logistic discrimination with basis expansion for the early detection of Alzheimer's disease based on three-dimensional MRI data (109-119)

### **Issue 4 of volume 6 (2012)**

#### **Special Issue on 'Data analysis and classification in marketing'**

*Guest editors: Daniel Baier, Reinhold Decker*

*Daniel Baier, Ines Daniel, Sarah Frost, Robert Naundorf:*

- Image data analysis and classification in marketing (253-276)

*Paola Cerchiello, Paolo Giudici:*

- Non parametric statistical models for on-line text classification (277-288)

*Wolfgang Gaul, Dominic Gastes:*

- A note on consistency improvements of AHP paired comparison data (289-302)

*Maria Iannario, Marica Manisera, Domenico Piccolo, Paola Zuccolotto:*

- Sensory analysis in the food industry as a tool for marketing decisions (303-321)

*Caterina Liberati, Paolo Mariani:*

- Banking customer satisfaction evaluation: a three-way factor perspective (323-336)

*Vera L. Miguéis, Dirk Van den Poel, Ana S. Camanho, João Falcão e Cunha:*

- Predicting partial customer churn using Markov for discrimination for modeling first purchase sequences (337-353)

*Takanobu Nakahara, Katsutoshi Yada:*

- Analyzing consumers' shopping behavior using RFID data and pattern mining (355-365)

### **Issue 3 of volume 6 (2012)**

*Maria Iannario:*

- Preliminary estimators for a mixture model of ordinal data (163-184)

*Zoltán Prekopcsák, Daniel Lemire:*

- Time series classification by class-specific Mahalanobis distance measures (185-200)

*M. Rincón, M. D. Ruiz-Medina:*

- Wavelet-RKHS-based functional statistical classification (201-217)

*Michio Yamamoto:*

- Clustering of functional data in a low-dimensional subspace (219-247)

### **Issue 2 of volume 6 (2012)**

*Isabella Morlini, Sergio Zani:*

- Dissimilarity and similarity measures for comparing dendrograms and their applications (85-105)

*C. Ruwet, L.A. Garcíá-Escudero, A. Gordaliza, A. Mayo-Isacar:*

- The influence function of the TCLUST robust clustering procedure (107-130)

*Marie Chavent, Vanessa Kuentz-Simonet, Jérôme Saracco:*

- Orthogonal rotation in PCAMIX (131-146)

*Sun Makosso-Kallyth, Edwin Diday:*

- Adaptation of interval PCA to symbolic histogram variables (147-159)

### **Issue 1 of volume 6 (2012)**

*Isabella Morlini:*

- A latent variable approach for clustering mixed binary and continuous variables with a Gaussian mixture model (5-28)

*Matthias Templ, Andreas Alfons, Peter Filzmoser:*

- Exploring incomplete data using visualization techniques (29-47)

*Jacques Bénasséni, Mohammed Bennani Dosse:*

- Analyzing multiset data by the Power STATIS-ACT method (49-65)

*Matthijs J. Warrens:*

- Cohen's linearly weighted kappa is a weighted average (67-79)

### **Issue 4 of volume 5 (2011)**

#### **Special Issue on 'Time series clustering'**

*Guest editor: Hans-Hermann Bock*

*Sylvia Frühwirth-Schnatter:*

- Panel data analysis - a survey on model-based clustering of time series (251-280)

*Charles Bouveyron, Julien Jacques:*

- Model-based clustering of time series in group-specific functional subspaces (281-300)

*Allou Samé, Faicel Chamroukhi, Gérard Govaert, Partice Aknin:*

- Model-based clustering and segmentation of time series with changes in regime (301-321)

*Giovanni De Luca, Paola Zuccolotto:*

- A tail dependence-based dissimilarity measure for financial time series clustering (323-340)

*Tobias Springer, Joachim Stöckler, Katja Ickstadt:*

- Frame potential minimization for clustering short time series (341-355)

### **Issue 3 of volume 5 (2011)**

*A.N. Albatineh:*

- Correcting Jaccard and other similarity indices for chance agreement in cluster analysis" (179-200)

*Karsten Luebke, Claus Weihs:*

- Linear dimension reduction in classification: adaptive procedure for optimum results (201-213)

*Alain Guénoche:*

- Consensus of partitions: a constructive approach (215-229)

*Julie Josse, Jérôme Pagès, Francois Husson:*

- Multiple imputation in principal component analysis (231-246)

### **Issue 2 of volume 5 (2011)**

#### **Special Issue on 'Network analysis'**

*Guest editors: Anuška Ferligoj, Vladimir Batagelj*

*Ulrik Brandes, Jürgen Lerner, Uwe Nagel:*

- Network ensemble clustering using latent roles (81-94)

*Giuseppe Giordano, Maria Prosperina Vitale:*

- On the use of auxiliary information in social network analysis (95-112)

*Wolfgang Gaul:*

- Web page importance ranking (113-128)

*Vladimir Batagelj, Matjaz Zaversnik:*

- Fast algorithms for determining (generalized) core groups in social networks (129-145)

*Joshua A. Lospinoso, Michael Schweinberger, Tom A.B. Snijders, Ruth M. Ripley:*

- Assessing and accounting for time heterogeneity in stochastic actor oriented models (147-176)

### **Issue 1 of volume 5 (2011)**

*Luigi Grossi, Fabrizio Laurini:*

- Robust estimation of efficient mean-variance frontiers (3-22)

*Kohei Adachi:*

- Constrained principal component analysis of standardized data for biplots with unit-length variable vectors (23-36)

*Valentin Todorov, Matthias Templ, Peter Filzmoser:*

- Detection of multivariate outliers in business survey data with incomplete information (37-56)

*Sébastien Loisel, Yoshio Takane:*

- Generalized GIPSCAL re-revisited: a fast convergent algorithm with acceleration by the minimal polynomial extrapolation (57-75)

#### **Issue 4 of volume 4 (2010)**

*Casper J. Albers, John C. Gower:*

- A general approach to handling missing values in Procrustes analysis (223-237)

*Mia Hubert, Stephan Van Der Veeken:*

- Robust classification of skewed data (239-254)

*Heungsun Hwang, Marc A. Tomiuk:*

- Fuzzy clusterwise quasi-likelihood generalized linear models (255-270)

*Matthijs Warrens:*

- Inequalities between multi-rater kappas (271-286)

*Tiziano Bellini:*

- Detecting atypical observations in financial data: the forward search for elliptical copulas (287-299)

*Tri-Dzung Nguyen, Roy E. Welsch:*

- Outlier detection and robust covariance estimation using mathematical programming (301-334)

#### **Double Issue 2+3 of volume 4 (2010)**

##### **Special Issue on 'Robust methods for classification and data analysis'**

*Guest editors: Marco Riani, Andrea Cerioli, Peter J. Rousseau*

*Luis Angel García-Escudero, Alfonso Gordaliza, Carlos Matrán, Agustín Mayo-Iscar:*

- A review of robust clustering methods (89-109)

*Pietro Coretto, Christian Hennig :*

- A simulation study to compare robust clustering methods based on mixtures (111-135)

*C. Croux, C. Dehon, A. Yadine:*

- The k-step spatial sign covariance matrix (137-150)

*Michiel Debruyne, Tim Verdonck:*

- Robust kernel principal component analysis and classification (151-167)

*Alfio Marazzi, Victor J. Yohai:*

- Optimal robust estimates using the Hellinger distance (169-179)

*Stefan Van Aelst, Gert Willems:*

- Inference for robust canonical variates analysis (181-197)

*Arnout Van Messem, Andreas Christmann :*

- A review on consistency and robustness properties of support vector machines for heavy-tailed distributions (199-220)

### **Issue 1 of volume 4 (2010)**

*Christian Hennig:*

- Methods for merging Gaussian mixture components (3-34)

*Hye Won Suk, Heungsun Hwang:*

- Regularized fuzzy clusterwise ridge regression (35-51)

*Genane Youness, Gilbert Saporta:*

- Comparing partitions of two sets of units based on the same variables (53-64)

*Florian Frommlet:*

- Tag SNP selection based on clustering according to dominant sets found using replicator dynamics (65-83)

### **Issue 3 of volume 3 (2009)**

*François Brucker, A. Gély:*

- Parsimonious cluster systems (189-204)

*François Bavaud:*

- Aggregation invariance in general clustering approaches (205-225)

*Véronique Cariou, Stéphane Verdun, Emmanuelle Diaz, El Mostafa Qannari, Evelyne Vigneau:*

- Comparison of three hypothesis testing approaches for the selection of the appropriate number of clusters of variables (227-241)

*Christoforos Anagnostopoulos, Dimitris K. Tasoulis, Niall M. Adams, David J. Hand:*

- Temporally adaptive estimation of logistic classifiers on data streams (243-261)

*Domenico Perrotta, Marco Riani, Francesca Torti:*

- New robust dynamic plots for regression mixture detection (263-279)

*Stephan Dlugosz, Ulrich Müller-Funk:*

- The value of the last digit: statistical fraud detection with digit analysis (281-290)

*Jean Diatta:*

- On critical sets of a finite Moore family (291-304)

*Bernard Fichet:*

- Metrics of  $L_p$ -type and distributional equivalence principle (305-314)

*Yoshio Takane, Sunho Jung:*

- Tests of ignoring and eliminating in nonsymmetric correspondence analysis (315-340)

## **Issue 2 of volume 3 (2009)**

*Frédéric Guyon, Céline Brochier-Armanet, Alain Guénoche:*

- Comparison of alignment free string distances for complete genome phylogeny (95-108)

*Wilson Toussile, Elisabeth Gassiat:*

- Variable selection in model-based clustering using multilocus genotype data (109-134)

*María Teresaegos, Gunter Ritter:*

- Trimming algorithms for clustering contaminated grouped data and their robustness (135-167)

*Matthijs Warrens:*

- On Robinsonian dissimilarities, the consecutive ones properties and latent variable models (169-184)

## **Issue 1 of volume 3 (2009)**

*Jukka Corander, Mats Gyllenberg, Timo Koski:*

- Bayesian unsupervised classification framework base on stochastic partitions of data and parallel search (3-24)

*Adrien Jamain, David J. Hand:*

- Where are the larger and difficult datasets ? (25-38)

*Marc Boullé:*

- Optimum simultaneous discretization with data grid models in supervised classification: a Bayesian model selection approach (39-61)

*Markus Franke, Andreas Geyer-Schulz:*

- An update algorithm for restricted random walk clustering for dynamic data sets (63-92)

## **Issue 3 of volume 2 (2008)**

### **Part 1: Special Issue on 'Optimization and Non-Convex Programming in Data Mining'**

*Guest editors: Hoai An Le Thi, Tao Pham Dinh, Gunter Ritter*

*Douleye Dembélé:*

- Multi-objective optimization for clustering 3-way gene expression data (211-225)



*Jean-Philippe Tarel, Sio-Song Ieng, Pierre Charbonnier:*

- A constrained optimization based half-quadratic algorithm for robustly fitting sets of linearly parametrized curves (227-239)

*Ingo Mierswa, Katharina Morik:*

- About the non-convex optimization problem induced by non-positive semidefinite kernel learning (241-258)

*Hoai An Le Thi, Hoai Minh Le, Van Vinh Nguyen, Tao Pham Dinh:*

- A DC programming approach for feature selection in support vector machine learning (259-278)

## **Part 2: Regular articles:**

*Lucile Denoeud:*

- Transfer distance between partitions (279-294)

*Kouji Tahata, Sadao Tomizawa:*

- Generalized marginal homogeneity model and its relation to marginal equiproportions for square contingency tables with ordered categories (295-311)

## **Issue 2 of volume 2 (2008)**

*Matthijs J. Warrens*

- On multi-way metricity, minimality and diagonal planes (109-119)

*Maurizio Vichi:*

- Fitting semiparametric clustering models to dissimilarity data (121-161)

*Antonio Giusti, Laura Grassini:*

- Cluster analysis of census data using the symbolic data approach (163-176)

*Vartan Choulakian:*

- Multiple taxicab correspondence analysis (177- 206)

## **Issue 1 of volume 2 (2008)**

*Jean-Baptiste Angelelli, Anais Baudot, Christine Brun, Alain Guenoche:*

- Two local dissimilarity measures for weighted graphs with applications to protein interaction networks (3-16)

*Patrick J.F. Groenen, G. Nalbantov, J.C. Bioch:*

- SVM-Maj: a majorization approach to linear support vector machines with different hinge errors (17-43)

*David J. Weston, David J. Hand, Niall M. Adams, Christopher Whitrow, Piotr Juszczak:*

- Plastic card fraud detection using peer group analysis (45-62)

*L. Fontanella, L. Ippoliti, R.J. Martin, S. Trivisonno:*

- Interpolation of spatio-temporal Gaussian fields using Gaussian Markov random fields (63-79)

*Pietro Amenta:*

- Generalized constrained co-inertia analysis (81-105)

### **Issue 3 of volume 1 (2007)**

*Anuradha Roy, Ricardo Leiva:*

- Discrimination with jointly equicorrelated multi-level multivariate data (175-199)

*Nicolas Paul, Michel Terre, Luc Fety:*

- A global algorithm to estimate the expectations of the components of an observed univariate mixture (201-219)

*Alexander K. Seewald, Florian Kleedorfer:*

- Lambda pruning: an approximation of the string subsequence kernel for practical SVM classification and redundancy clustering (221-239)

*Wojtek J. Krzanowski, David J. Hand:*

- A recursive partitioning tool for interval prediction (241-254)

*Claus Weihs, Uwe Ligges, Fabian Mörchen, Daniel Müllensiefen:*

- Classification in music research (255-291)

### **Issue 2 of volume 1 (2007)**

*Le Thi Hoai An, Le Hoai Minh, Pham Dinh Tao:*

- Fuzzy clustering based on nonconvex optimisation approaches using Difference of Convex (DC) functions approaches (85-104)

*Nor Idyu Mahat, Wojtek Janusz Krzanowski, Adolfo Hernandez:*

- Variable selection in discriminant analysis based on the location model for mixed variables (105-122)

*Marco Riani, Anthony C. Atkinson:*

- Fast calibrations of the forward search for testing multiple outliers in regression (123-141)

*Jan Bergenthum, Ludger Rüschendorf:*

- Convex ordering criteria for Lévy processes (143-173)

### **Issue 1 of volume 1 (2007)**

*Ahlame Douzal Chouakria, Panduranga Naidu Nagabhushan:*

- Adaptive dissimilarity index for measuring time series proximity (5-21)

*Samuel J. Frame, Sreenivasa Rao Jammalamadaka:*

- Generalized mixture models, semi-supervised learning, and unknown class inference (23-38)

*Allou Samé, Latifa Oukhellou, Etienne Côme, Patrice Akinin:*

- Mixture-model-based signal denoising (39-51)

*Jean Diatta:*

- Galois closed entity sets and k-balls of quasi-ultrametric multiway dissimilarities (53-65)

*Gil González-Rodríguez, Ángela Blanco, Norberto Corral, Ana Colubi:*

- Least squares estimation of linear regression models for convex compact random sets (67-81)