

List of confirmed invited plenary and semi-plenary speakers

IFCS Symposium (30. August 2011)

- Bruce G. Lindsay (Penn State University, USA): "Revisiting projection pursuit"
- Gilles Celeux (Université Paris-Sud, France): "Statistical inference for the latent block model: A review"
- Douglas Steinley (University of Missouri, USA): tba
- Geoff McLachlan, IFCS president (University of Brisbane, Australia): "A presidential address"

DAGM/GfKI/IFCS (31. August – 2. September 2011)

- Donald Geman (Johns Hopkins University, USA): tba
- Arndt von Haeseler (Universitaet Wien, Austria): "How well does a phylogenetic tree represent the underlying data?"
- Yann Lecun (New York University, USA): tba
- Richard Samworth (University of Cambridge, UK): "Optimal weighted nearest neighbour classifiers"

GfKI/IFCS (31. August – 2. September 2011)

- Gunnar Carlsson (University of Stanford, USA): "Topology and classification"
- Andrea Cerioli (University of Parma, Italy): "Multivariate outlier detection and robust clustering"
- Sylvia Frühwirth-Schnatter (University of Linz, Austria): "Model-based clustering of time series and panel data"
- Willem Heiser (University of Leiden, the Netherlands): "Clustering methodology for grouping of variables"
- Carlos Gabriel Matrán (University of Valladolid, Spain): "Trimming: An adaptive and flexible way for searching for a clustering pattern in presence of noise"
- Ilya Shabanov: "On morphological analysis of neolithic ceramics"
- Adilson Elias Xavier (Federal University of Rio de Janeiro, Brasil): "Solving clustering problems by the hyperbolic smoothing approach"

List of confirmed invited sessions

IFCS Symposium (30. August 2011) :

"A session in memory of Jean-Pierre Barthélemy " organized by Bernard Fichet (Universite Aix-Marseille, France):

- Fred Mc Morris (Illinois Institute of Technology, USA). " My work with Jean-Pierre and beyond"
- Alain Guénoche (Université Aix-Marseille II, France) "From individual categorisations to consensus ones"
- Patrice Bertrand (Université Paris Dauphine, France) "Bijection between dissimilarities and stratified classification structures"

"Estimating and visualizing high-dimensional cluster structure" organized by Rebecca Nugent (Carnegie Mellon University, USA):

- Brendan Murphy (University College Dublin, Ireland): tba
- Claire Gormley (University College Dublin, Ireland): tba
- Rebecca Nugent (Carnegie Mellon University, USA): tba

"Modern multidimensional unfolding" organized by Mark de Rooij (Leiden University, the Netherlands):

- Frank Busing (University of Leiden, the Netherlands): tba
- Katrijn van Deun (University of Leuven, Belgium): "Sparse multidimensional unfolding"
- Mark de Rooij (University of Leiden, the Netherlands): tba

"Latent class models" - organisers: Michele Costa (Università di Bologna, Italy) and Isabella Morlini (Università di Parma, Italy):

- José Dias (ISCTE - Instituto Superior de Ciências do Trabalho e da Empresa, Portugal): tba
- Jan Bulla (University of Caen, France): tba
- Luca De Angelis (University of Bologna, Italy): tba

GfKI/IFCS (31. August – 2. September 2011):

"Current issues in cluster analysis" – organiser Gunter Ritter (Universität Passau):

- Agustín Mayo-Iscar (University of Valladolid, Spain): "New advances in robust clustering based on trimming"
- Christian Hennig (UCL, UK): "Some issues in the aggregation of variables for dissimilarity-based clustering"
- Florian Schwaiger (University of Marburg, Germany): "Testing for the number of regimes in Markov dependent mixtures (HMMs)"

"Item response theory in psychology and education" - organiser Christine Hohensinn (Universität Wien, Austria):

- Otto Walter (Universität Bielefeld, Germany) : "Non-parametric item response models for scale construction and adaptive testing"
- Thomas Rusch (Wirtschaftsuniversität Wien, Austria) : "Linear logistic models with relaxed assumptions in R: Implementation and application"
- Andreas Frey (University of Kiel, Germany) : "Reporting differentiated literacy results in PISA by using multidimensional adaptive testing"
- Christine Hohensinn (Universität Wien, Austria) : "Detecting person heterogeneity in a large-scale orthographic test by item response models"

"Dissimilarities and dissimilarity based methods" - organiser Christian Hennig (UCL, UK): tba

"Systems biology" – organiser Hans Kestler (University of Ulm): tba

Conference Topics:

As example for the range of relevant topics to be addressed at the conference see the following list of intended sections. Contributed papers from scholars and practitioners are invited on any of these topics as well as on related ones. Suggestions for (the organization of) additional topics are welcome.

Topics include, but are not limited to:

- Banking and Finance
- Bioinformatics and Biostatistics
- Biomedical Data Analysis and Imaging
- Business and Industry
- Classification, Discriminant Analysis and Supervised Learning
- Clustering and Unsupervised Learning
- Complex Event Processing
- Data Analysis in Archaeology
- Geospatial Planning
- Databionics
- Exploratory Data Mining
- Graphics and Vision
- Image Analysis and Computer Vision
- Information Retrieval and Library Science
- Knowledge Discovery
- Linguistics and Musicology
- Machine Learning and Pattern Recognition
- Marketing and Management
- Medical and Health Sciences
- Psychology and Educational Sciences
- Social Network Analysis
- Statistical Data Analysis and Models
- Swarm Systems
- Text Mining, Web Mining, and Ontology Learning
- Visualization
- Applications in Natural Sciences, Engineering, Medicine and Biology