The workshop will bring together researchers interested in clustering techniques with applications in different fields, from economics to genetics through social sciences. It aims at creating a network of researchers interested in cluster analysis in order to reinforce the connection between FUB researchers and other national and international experts. The event intentionally to favorite an effective interaction among participants and to promote formal as well as informal open discussions. The activity of the workshop will also support the scientific achievements of **MODEX (Modelling Multivariate Dependence** and Extremes) and "Multivariate analysis techniques based on copula function" projects, approved by the Central Research Committee of FUB.



WORKSHOP CLUSTERING METHODS AND THEIR APPLICATIONS

Friday, November 28th, 2014

Room C 3.06

8.30 a.m. – 6.00 p.m.

Faculty of Economics and Management
Free University of Bozen - Bolzano
Universitätsplatz 1 piazza Università
39100 Bozen-Bolzano

Friday, 28 November, 2014

9.00 a.m. - 9.15 a.m. Opening of the Workshop

L. Courteau, Dean of the School of Economics and Management, Free University of Bozen-Bolzano, Italy

F. Durante, Free University of Bozen-Bolzano, Italy

9.15 a.m. - 10.45 a.m. Session I

Chair. F. Marta L. Di Lascio, Free University of Bozen-Bolzano, Italy

"Flexible and Sparse Bayesian Model-Based Clustering"

Bettina Grün, Johnnes Kepler University Linz, Austria

"Pursuing a formalization of the clustering problem. Answers (and questions) via modal clustering"

Giovanna Menardi, University of Padova, Italy

10:45 a.m. - 11:15 a.m. Coffee break

11.15 a.m. - 12.45 p.m. Session II

Chair. F. Durante, Free University of Bozen-Bolzano, Italy

"Identifying connected components in Gaussian finite mixture models for clustering"

Luca Scrucca, University of Perugia, Italy

"Functional Data Analysis and Cluster Analysis: a Marriage with some Constraints"

Simone Vantini, Politecnico of Milano, Italy

12.45 p.m.- 2.00 p.m. Lunch

2.00 p.m. - 4.15 p.m. Session III

Chair: E. Foscolo, Free University of Bozen-Bolzano, Italy

"Fuzzy segmentation in the postmodern era"

Marta Disegna, Free University of Bolzano-Bozen, Italy

"A toolbox for fuzzy clustering using the R programming language"

Maria Brigida Ferraro, University La Sapienza, Roma, Italy

"Cluster analysis of time series via Kendall distribution"

Roberta Pappadà, University of Trieste, Italy

4.15 p.m. - 4.30 p.m. Coffee break

4.30 p.m. – 6.00 p.m. Round table discussion

6.00 p.m. Conclusions

Chair: F. Durante and F. Marta L. Di Lascio, Free University of Bozen-Bolzano, Italy

Registration on the day starts at 08.30

The participation is free of charge.

All participants will receive a certificate of attendance, which will be distributed.

INFORMATION FOR PARTICIPANTS

Participants are required to pre-register by sending an email to:

katrin.lambacher@unibz.it

by Tuesday 25 November 2014

Scientific Organization

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http://pro1.unibz.it/projects/Clustering Methods 2014/