Advances in Data Analysis and Classification (ADAC)
Theory, Methods, and Applications in Data Science

Call for Papers for a Special Issue on
Symbolic Data Analysis

The journal *Advances in Data Analysis and Classification* will publish a Special Issue on **Symbolic Data Analysis**.

Symbolic Data Analysis is a relatively recent field (less than three decades old) that focuses on the analysis of datasets where individuals are described by variables that can represent internal variation and/or structure. Symbolic data values can be intervals, histograms, distributions, lists of values, taxonomies, etc.

Some datasets naturally consist of symbolic data (e.g. the dataset of the minimum and maximum temperatures can be naturally represented by intervals), while many other symbolic datasets result from the aggregation of large classical datasets (the dataset of the distribution incomes of the population in each country). It quickly becomes apparent that variation and structure must be taken into account when analysing the dataset.

The catalogue of symbolic data analysis methods is increasing with time covering new areas and offering more rigorous approaches. An extensive coverage of earlier symbolic data analysis methods can be found in Bock and Diday (2000), Billard and Diday (2006) and Diday and Noirhomme-Fraiture (2008). Symbolic methods have been successfully applied in different fields such as Official Statistics, marketing, industry and finance to name just a few. The present dynamic development of the field is mainly due to the growth of the community. Since its beginnings, many researchers with different backgrounds (mathematicians, statisticians, computer scientists, economists, among others) have contributed to the field, which has benefited from that heterogeneity and is now well-established. Much work has been done, but many challenges lie ahead.

Topics of particular interest may include, but are not limited to:

• Methodological innovations in the field of Symbolic Data Analysis

• Development of specific computational and graphical tools

• Applications of Symbolic Data Analysis in specific domains such as bioinformatics, social networks, data streams, image analysis, official statistics, business, marketing, finance, information retrieval, atmospheric science, etc.

Researchers and practitioners are kindly invited to submit relevant and innovative papers for publication in this Special Issue.

[1] This is the topic of the Workshop on Symbolic Data Analysis to be held at the University of Comillas, in Madrid (Spain) on November 7-9, 2012.

See: http://www.sda-workshop.org/

Submission details.

Submitted papers must contain original unpublished work that has not been submitted for publication elsewhere. All manuscripts submitted to this Special Issue will undergo the classical double-blind reviewing process.

Papers should be written in LaTeX and not exceed 12 pages (A4 or Letter size with 12 point, fully double-spaced font), including illustrations and tables. The front page of the manuscript must contain a concise and informative title, the names, affiliations, and addresses of all the authors, the e-mail address, telephone, and fax number of the corresponding author, an abstract of 150 to 250 words, and 4 to 6 keywords which can be used for indexing purposes.

Further formatting instructions are given on the journal's homepage *http://www.springer.com/journal/11634*.

Manuscripts should be submitted by the electronic submission system from Springer's ADAC website.

Important dates:

• Submission of full papers for the Special Issue: **January 8th, 2013** (earlier submission is encouraged).

• Notification to authors: March 31, 2013 (tentative).

• Final papers: July 30, 2013 (tentative).

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