

# CALL FOR PAPERS

## STATISTICAL ANALYSIS AND DATA MINING

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### Special Issue on Symbolic Data Analysis (SDA)

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With the advent of modern computing, databases are becoming so large or complex that classical statistical methods are often not able to analyze them in practice, due to either their size or their complexity. New methods are being developed to handle these databases, and many are on the interface of *Statistical Analysis and Data Mining*.

One such area is Symbolic Data Analysis. Although symbolic data may arise naturally, they are increasingly important as a result of aggregating large to massive databases. Those databases will naturally contain symbolically-valued data: such as lists, intervals, histograms or distributions. Further, different scientific questions that are asked concerning a particular aggregation may well produce different symbolic databases.

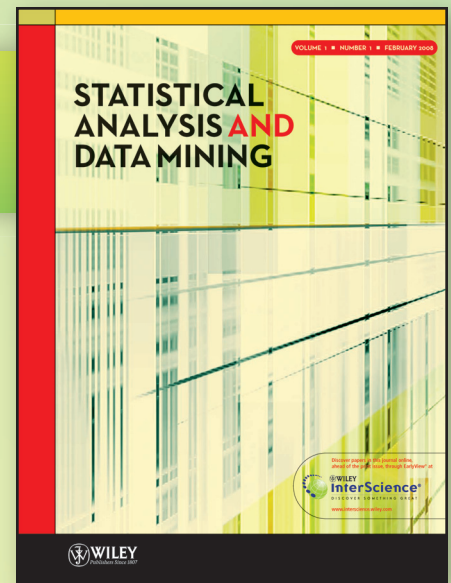
Since symbolic data have internal variations (that do not exist in classical data) as well as between-observations variations (in both classical and symbolic data), classical statistical methods applied to symbolic data may yield results that are often inadequate or misleading. Therefore, new methods are being developed to handle symbolic data.

Papers should present new results in symbolic data analysis: such as methods for new classes of symbolic data, insights from applications in new areas, or theoretical underpinnings for current methods.

*The deadline for submission is January 19, 2010.*

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- Solve data analysis problems associated with massive, complex datasets.
- Address real problems and are application and solution oriented.
- Describe innovative data mining algorithms or novel statistical approaches.
- Compare how different techniques solve a problem, along with an objective evaluation of the analyses and the solutions.

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