

# STATISTICAL ANALYSIS AND DATA MINING

Perspective

## Emerging topics and challenges for statistical analysis and data mining

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### Abstract

The *Preview* integrates a sample of *emerging topics* in statistical analysis and data mining which I collected at 4 relevant 2010 meetings and major *challenges* which correspond to them. They are grouped into *Mixtures of Problem Data*, *Methodologies for Solutions*, *Challenges for Statistical Analysis and Data Mining*, and *Challenges Suggested during Review*. This *Preview* is meant to be a provocative *overview*, but it is not meant to be a comprehensive or definitive *research* article. A *vision* of the near future in any area is there for us to *perceive* when we look for it *carefully*. It has the *advantages* of short term predictions and its disadvantages may be overcome by *checking* against current literature. In times of cascading *change*, such an informed *Preview* may be even more valuable than the far more typical *Reviews* of what has already been accomplished that are provided by most Journals in overabundance. *Now let us welcome the new decade full of things that have never been—imagine the possibilities!* © 2011 Wiley Periodicals, Inc. *Statistical Analysis and Data Mining* 4: 3–8 2011

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