Call for Papers

3rd Special Issue on

Optimization Heuristics in Estimation and Modelling Problems

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Estimation and modelling problems as they arise in many fields often turn out to be intractable by standard optimization methods. One way to deal with such a situation consists of simplifying models and procedures. However, the solutions to these simplified problems might not be satisfying. A different approach involves the application of optimization heuristics such as simulated annealing, threshold accepting, evolutionary methods (e.g., genetic algorithms or differential evolution), particle swarm algorithms, tabu search, hybrid methods and many others. Although these methods are mainly used in estimation and modelling in statistics, there is scope for further applications and a more detailed analysis of the statistical properties of these algorithms. Other topics in which the editors have a declared interest include simulation, soft computing and computational intelligence.

We therefore invite submissions for the third special issue of Computational Statistics & Data Analysis on Optimization Heuristics in Estimation and Modelling Problems. The papers should contain both computational and estimation or modelling components. Besides a discussion of the algorithm, the paper should contribute some real application and an adequate analysis of the (statistical) properties of the algorithm – the introduction to the second special issue (2004, volume 52/1) provides a guideline. Also welcome are discussions of the computational complexity of estimation and modelling problems giving rise to the use of optimization heuristics.

The DEADLINE for submissions is 15 January 2011. The editorial process is expected to proceed rapidly thereafter. However, papers can be submitted at any time; and, once received, they will enter the editorial system immediately. All papers submitted must contain original unpublished work that is not being submitted for publication elsewhere. Manuscripts submitted to this special issue will be refereed according to the standard procedures for Computational Statistics & Data Analysis. Information about the journal can be found at http://www.elsevier.com/locate/csda.

Papers for the special issue should be submitted using the Elsevier Electronic Submission tool EES: http://ees.elsevier.com/csda. In the EES please choose the Article Type Special Issue: Optimization Heuristics and the Co-Editor responsible for the special issues.

Authors who are uncertain as to the suitability of their papers for the special issue should contact the special issue editors:

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