CALL FOR PAPERS
Annals of Operations Research
Special Volume on
Benders Decomposition and its Application in Engineering
Georgios K.D. Saharidis, Marianthi G. Ierapetritou and Christodoulos A. Floudas

The Benders decomposition method has been successfully used in a variety of applications involving process synthesis and design, scheduling and planning problems, project selection, timing and sequencing problems, energy management problems, as well as scenario-based, multistage stochastic programming problems. Although a number of successful case studies have been presented in the literature there are still a number of outstanding questions regarding (a) the applicability of the Benders decomposition, (b) the convergent properties of the method based on the specific application.

In this special volume of the *Annals of Operations Research* we are interested in applications of the Benders decomposition method in areas of engineering and applied science. This comes at a time of international recognition of the significance of Benders decomposition: Professor Benders has been awarded the 2009 Gold medal from the Association of European Operations Research Societies.

We expect this special volume to be a collection of high quality research contributions and advances in mathematical programming and decomposition-based methods. The review process will be the same as that used by the journal. Topics suitable for this special volume include, but are not limited to, the following:
- Benders decomposition applied in planning and scheduling problems
- Benders decomposition applied in chemical, biochemical, biomedical, financial, electrical, and computer engineering
- Benders decomposition applied in transportation and supply chain management
- Applicability of the Benders decomposition approach in comparison to the other decomposition methods
- Issues of the convergence of Benders decomposition algorithms
- Acceleration of Benders decomposition algorithms
- Hybrid schema: Benders decomposition combined with other decomposition methods
- Benders decomposition applied in non-convex optimization
- Expert systems and Benders decomposition
- Benders decomposition and stochastic programming
- Benders decomposition and global optimization
- Benders decomposition and heuristic algorithms

~~Deadline for submission: September 30th 2010~~
New deadline for submissions: January **31th 2011**
Submission procedure:
To submit your manuscript for consideration to the *Annals of Operation Research* special volume *Benders Decomposition and Its Application in Engineering* please click on the url:
http://www.editorialmanager.com/anor/default.asp and follow the instructions found there. When submitting to the special volume, first click "submit new manuscript", and select the article type
"***SI: Benders Decomp_Application in Engg***". This system supports a wide range of submission file formats: for manuscripts - Word, WordPerfect, RTF, TXT and LaTeX; for figures - TIFF, GIF, JPEG, EPS, PPT, and Postscript. However, PDF and PS are not an acceptable file formats for manuscripts. Please remember to upload style files. Instructions for authors can also be found at
http://www.editorialmanager.com/anor/
Contact e-mail: saharidis@gmail.com