

CALL FOR PAPERS
Annals of Operations Research
Special Volume on
Collaborative Environmental Management and Modelling
Guest Editors:

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After several decades of rapid technological advancement and economic growth, levels of pollution and environmental degradation are rising all over the world. Due to the global effect of environmental deterioration, unilateral response on the part of one single country would hardly be effective. Collaborations in pollution abatement, R&D in technology development, emissions reduction, and subsidization for technology transfer offer the best promise to assist the development of an effective means to halt the accelerating trend of environmental deterioration.

International cooperative agreements have to be negotiated to deal with the global environmental problem. In these negotiations, many complex issues such as intra- and inter-generational cost sharing and compensation for technology transfer have to be dealt with. Even in a collaborative approach to manage the global environment, cost sharing, gains distribution, and sustainability remain important issues to be resolved and pose an ensemble of problems that are best addressed through strategic modelling. Applications of operations research methodologies – such as optimization techniques, control theory, and interactive strategic analysis – are crucial to the development of collaborative environmental management paradigms and the formulation of viable solutions.

In particular, this special volume of the *Annals of Operations Research* will be a collection of high quality research papers with emphasis on advances of operations research in collaborative environmental management and modelling.

Topics include, but are not limited to

- (i) optimal control techniques and OR methodologies with applications in environmental management,
- (ii) cooperative dynamic/differential games for collaborative environmental management and joint pollution control,
- (iii) cooperative stochastic differential games in environmental control,
- (iv) models of coalition formation and stability,
- (v) new solution concepts and mathematical analysis in cooperative environmental management,
- (vi) novel modelling techniques for environmental cooperation, and policy initiatives for collaborative environmental management.

Survey articles, short comments, and technical notes will also be considered.

The highly selective and strict reviewing process of the *Annals of Operations Research* will be adopted.

Deadline for submission: 31 March 2010

Submission Procedure

To submit your article to the *Annals of Operations Research* special volume on *Collaborative Environmental Management and Modelling*, please log onto the journal's website <http://www.editorialmanager.com/anor/default.asp>

Full submission instructions will be found there. When requested to select an article type, please select "SI: Collaborative Env'l Mgt & Modelling".