4th International Workshop on

Total Least Squares and Errors-in-Variables Modeling

August 21–23, 2006
Arenberg castle, Leuven, Belgium

Announcement and Second Call for Papers

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This interdisciplinary workshop is a continuation of 3 previous workshops which were held in Leuven, Belgium, August 1991, 1996, and 2001 and aims to bring together numerical analysts, statisticians, engineers, economists, chemists, etc. in order to discuss recent advances in Total Least Squares (TLS) techniques and errors-in-variables (EIV) modeling.

Papers are solicited for technical sessions on the following and related topics :

Concepts and Properties : *structured and weighted TLS, other norms, misfit versus latency errors, nonlinear measurement error models, dynamic errors-in-variables, hypersurface fitting, statistical, numerical, robustness and optimization aspects*

Algorithms : *real-time, adaptive, recursive, neural, iterative algorithms, based on SVD or related matrix/tensor decompositions, architectures, complexity, accuracy, regularization, convergence, lower rank approximations*

Applications : *array signal and image processing, filtering, system identification, computer vision, document retrieval, spectral analysis, harmonic retrieval, direction finding, geology, chemistry, biomedicine*

In particular, overview papers describing recent advances on any of the above-mentioned topics are invited. Other topics related to total least squares, errors-in-variables modeling, and their applications are also welcome.

Authors are invited to submit (electronically and via ordinary mail) an extended summary (2 pages) to the workshop secretariat for review. Fax number and email should be provided if possible. Overview papers will be presented as lecture, the other ones in poster form. Authors of accepted contributions will be asked to prepare a version for publication in the conference proceedings to be published as special issues of numerical linear algebra and applied statistics journals.

Authors' Schedule

Submission of summary:	March 1, 2006
Notification of Acceptance:	April 1, 2006
Submission of camera-ready paper:	October 1, 2006

Workshop Secretariat

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