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EXPOSITOR

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TITULO

Iterative regularization via a dual diagonal descent method

Abstract:

In the context of linear inverse problems, we propose and study general iterative regularization method allowing to consider classes of regularizers and data-fit terms.

The algorithm we propose is based on a primal-dual diagonal descent method, designed to solve hierarchical optimization problems.

Our analysis establishes convergence as well as stability results, in presence of error in the data.

In this noisy case, the number of iterations is shown to act as a regularization parameter, which makes our algorithm an iterative regularization method.

MIERCOLES 14 DE DICIEMBRE A LAS 16:30 HRS, SALA DE SEMINARIOS JOHN VON NEUMANN CMM, BEAUCHEF 851, TORRE NORTE PISO 7 (ASCENSORES TORRE PONIENTE)