ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE DOCTORAL SEMINAR

On primal-dual algorithms for ill-posed problems

Diana-Elena Mirciu | University of Klagenfurt

Chaired by Elena Resmerita | Department of Mathematics

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N.2.35

ABSTRACT

This talk addresses the derivation of error estimates for a Condat-Vũ type algorithm that solves linear inverse problems in a stable manner. We specifically consider the setting of data perturbed by non-additive noise, and use a stopping rule to ensure accurate approximations of the solution. Furthermore, we analyze an acceleration of the Primal-Dual Hybrid Gradient (PDHG) algorithm. We again consider the framework of noisy measurements and non-quadratic fidelities, and we show that fast convergence rates can be obtained when the penalty term is strongly convex.

We hope to see you there!