

Invited Talk Abstract

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Stochastic Block-Iterative Splitting of Systems of Monotone Inclusions

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Date	July 27, 2026
Time	15:30–16:00
Session	Session 3
Venue	Department of Mathematics, National Taiwan Normal University, Taipei, Taiwan

Abstract

We propose an abstract stochastic scheme for solving a broad range of monotone operator inclusion problems in Hilbert spaces. The application we highlight concerns randomized block-iterative projective splitting methods for solving systems of coupled inclusions involving a mix of set-valued, cocoercive, and Lipschitzian monotone operators combined via various monotonicity-preserving operations. Almost sure and L^2 convergence results are obtained for the iterates of the proposed scheme.

This is a joint work with Javier I. Madariaga.