Auburn Montgomery

Department of Mathematics

Colloquium/$\mathcal{M}AMS$

Time: Friday, February 18, 2011, 11:00am–12:00pm

Place: Auburn Montgomery, Goodwyn Hall, Room 202

Speaker: Professor Yuesheng Xu, Department of Mathematics, Syracuse University

Title: Proximity Algorithms for Regularization Problems of Complex Systems

Abstract: We will report our recent work on development of proximity algorithms for solving regularization problems of complex systems. Many complex system problems such as machine learning, image denoising, image deblurring and compress sensing can be formulated as regularization problems. We study proximity operators for regularization problems of this type. This leads to efficient algorithms for solving the problems. Both theoretical consideration and numerical examples will be presented.

****Refreshments will be served at 10:30am****