

Introduction to Multigrid Methods

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The multi-grid technique is a way of speeding up the convergence of iterative solvers for linear systems. The talk will summarize the first 3 chapters of *A Multigrid Tutorial* - Briggs et.al.(2000).

Gowtham is now entering his 4th year at UCSB, is in the mechanical engineering department, has concentrated in dynamical systems and computational science, is a founder of Numerical Scouts, and is working under Professor Igor Mezic on numerical linear algebra and optimization aspects of dynamic mode decomposition.

If there is enough interest, we hope to start a reading group for the rest of the textbook by Briggs.

Location and Time

Zoom @ 4:30pm - 5:30pm, a zoom invite will be sent out around 4:15pm

Pre-requisites

Linear Algebra

Reference

1. Briggs, W. L., Henson, V. E., McCormick, S. F. (2000). *A multigrid tutorial*. Society for Industrial and Applied Mathematics.

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