

Matrix Computations & Scientific Computing Seminar

Organizer: James Demmel & Ming Gu

Wednesday, 11:00am–12:00pm, 380 Soda

Oct. 13 **Dr. Erich Strohmaier**, LBNL

Using Numerical Algorithms for Computer Science Research

A variety of numerical algorithms have been used during the last decades for research in different aspects of computer science. Many have been implemented as benchmarks for measuring various aspects of computer architectures. In recent years research in parallel programming languages and multi-core processor architectures have renewed the interest in using broader set of numerical methods for evaluation.

This talk will review some of the previous usages of numerical kernels as benchmarks in computer science and present work on assembling a Testbed of numerical Kernels for research in different aspects of computer science.