

# Joint Distinguished Lecture 2002

Department of Computer Science

Department of Electrical and Computer Engineering

## Grid Computing and Computational Science

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Department of Computer Science and Engineering,  
University of California, San Diego.



October 1, 3:30 p.m.

Alliant Energy Lee Liu Auditorium, Howe Hall

Information Infrastructure has become a first-class tool for computational science. Today, computational and data management resources are key enablers for modeling, analyzing, and visualizing scientific phenomena as well as for managing and mining immense amounts of scientific data. Over the last ten years, the ability to link computational and data storage resources as a "Grid" has provided a critical platform for enabling large-scale science and engineering disciplines. In this talk, we describe the state of the art of Grid Computing and discuss the challenges of building the Grid over the next ten years to support the science and engineering discoveries of the future.

Dr. Francine Berman is Director of the San Diego Supercomputer Center and the National Partnership for Advanced Computational Infrastructure, ACM Fellow, Professor of Computer Science and Engineering at U. C. San Diego, and Director of the UCSD Grid Laboratory. Over the last two decades, her research has focused on the development of software, tools and models for Parallel and more recently Grid Computing environments. Dr. Berman has served on numerous program committees, advisory boards and steering committees and currently serves as one of the two Principal Investigators for NSF's \$53,000,000 TeraGrid project.

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