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2004-05 Program on
Data Assimilation for Geophysical Systems

Tutorials and Opening Workshop: January 23-26 , 2005

Issues, Challenges & Interdisciplinary Perspectives (at IPAM): February 23-26, 2005

Summer School: "Fusing Models with Data: From Theory to Practice to Theory" (at NCAR-Boulder, CO): June 2005

Data assimilation aims at accurate re-analysis, estimation and prediction of an unknown, true state by merging observed information into a model. This issue arises in all scientific areas that enjoy a profusion of data. The problem is fundamental yet challenging as it does not naturally afford a clean solution. The goal of the SAMSI Data Assimilation program is to identify outstanding mathematical and statistical issues and challenges of geophysical data assimilation while exploring innovative approaches and new directions from an inter-disciplinary perspective.

Program Leaders: Christopher K.R.T. Jones (Chair), Kayo Ide, Robert N. Miller, Douglas Nychka, and Francisco Werner

Opportunities to Participate

- ◆ *SAMSI-University Fellows* help lead the research as well as join academic life at a SAMSI university
- ◆ *Long-term Research Visitors* participate in the research
- ◆ *SAMSI New Researcher Fellows* are fully engaged in the program for one semester to one year
- ◆ *Postdoctoral Fellows*, typically appointed for two years, play major roles in pursuing the research
- ◆ *Workshop Attendees* inform the course of the research and have early access to the results.

Members of underrepresented groups are especially encouraged to apply.

www.samsi.info/data-home.html

The Statistical and Applied Mathematical Sciences Institute (SAMSI) is a national institute that is forging a new synthesis of the statistical and applied mathematical sciences with disciplinary science to confront important data- and model-driven scientific challenges.

SAMSI is a partnership of the National Science Foundation with the consortium of Duke University, North Carolina State University, the University of North Carolina at Chapel Hill, and the National Institute of Statistical Sciences.