Projects
- Logistics planning
- Emergency response

Pattern classification
- Karen Willcox (N. Zealand), Shashi

Dynamic (e.g., mobile) sensing – more accurate / fewer sensors
- Information theory (Adrian)

Multi-stream data
- Data models (Shuvra, Sanjay, Xiaoming)
Programming models
  - Data flow, polyhedral compiling, Carlos Varela, Adrian Sandu
  - Cloud versus services models (Salim Hariri - DaaS)
  - Dynamic workflow
  - End to end architecture software frameworks
  - Windowing data collection in streams to get the right data only

Big Data = \{exascale, mid range\} + internet + personal devices + large instruments + ubiquitous sensing
Big Computing = \{exascale, mid range\} + personal devices + computing on ubiquitous sensors and controllers

Physics based models
  - Multimodel and changing
• Probabilistic models running in parallel with physical model to discover model (in)adequacy

Errors
• Models
• Data

Uncertainty Quantification and Propagation
• Using collected data to come up with fast inverse methods

SIAM Review Paper should also have
• Power grids
• 200+ citations for DDDAS Workshops
  o Only cite papers that have DDDAS in it! 😊
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