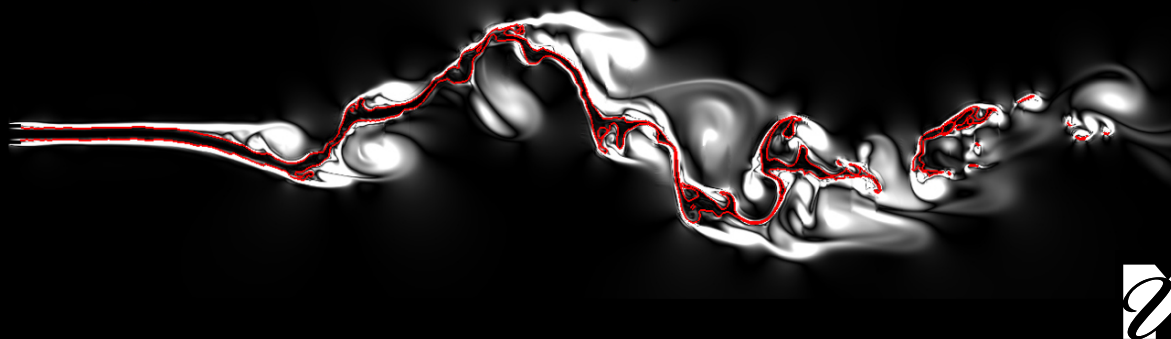


Center for Scientific Computing & Visualization Research



You are cordially invited to a workshop on *THE POWER OF SCIENTIFIC COMPUTING*

The dramatic increase in the speed and data-handling capability of high performance computers, and a complementary development of novel algorithms, have transformed the nature of scientific investigation. Computation is now used regularly and intensively for the simulation of complex physical problems.

Scientific computation has joined experiment and theory to become a central pillar of modern science.

Please join us to learn about the impact of computing on the process of scientific discovery at UMass Dartmouth.

Location: Textiles room 105

Part I: Tuesday, September 17

- 1pm Welcome
- 1:20-2:20 Yanlai Chen (Mathematics)
From the F-22 Raptor to Pregnancy Tests
- 2:20-3:00 Collaboration Brainstorming
- 3:00-3:30 Mazdak Tootkaboni (Civil)
Reducing Offshore Platform Response to Waves
- 3:30-4:00 Akil Narayan (Mathematics)
Blurring and De-blurring Scientific Models
- 4:00-4:30 Vanni Bucci (Biology)
Susceptibility and Resistance to C. diff infection
- 4:30-5:00 Collaboration Brainstorming
- 5:00-6:00 Mehdi Raessi (Mechanical)
Computational Simulations of Energy Systems
- 6:00pm Refreshments

Part II: Tuesday, September 24

- 1pm Welcome
- 1:20-2:20 Robert Fisher (Physics)
Exploding Stars and the Accelerating Universe
- 2:20-3:00 Collaboration Brainstorming
- 3:00-3:30 Bo Dong (Mathematics)
Multiscale Simulations of Semiconductor Devices
- 3:30-4:00 Firas Khatib (Computer Science)
Crowdsourcing in the Computational Sciences
- 4:00-4:30 Ying-Tsong Lin (WHOI)
Underwater Sound Propagation
- 4:30-5:00 Collaboration Brainstorming
- 5:00-6:00 Alfa Heryudono (Mathematics)
Human Tear Film Dynamics
- 6:00pm Refreshments



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