OLD DOMINION UNIVERSITY

1930

Norfolk, Virginia USA

DEPARTMENT OF COMPUTER SCIENCE

http://www.cs.odu.edu

21 FACULTY MEMBERS

8 Professors
(1 Eminent Scholar, Endowed Chair)
4 Associate Professors
3 Assistant Professors
6 Lecturers
3 Unfilled Positions

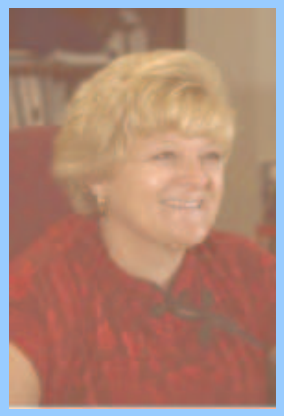
20 Adjunct/thesis Faculty
5 Adjunct courses/semester

http://www.cs.odu.edu
500+ undergraduate majors
207 graduate students
22 GTAs, 29 GRAs (54 Funded Students/F2006)

Departmental Administration

Chair:
Kurt Maly

Assistant Chair:
Irwin Levinstein

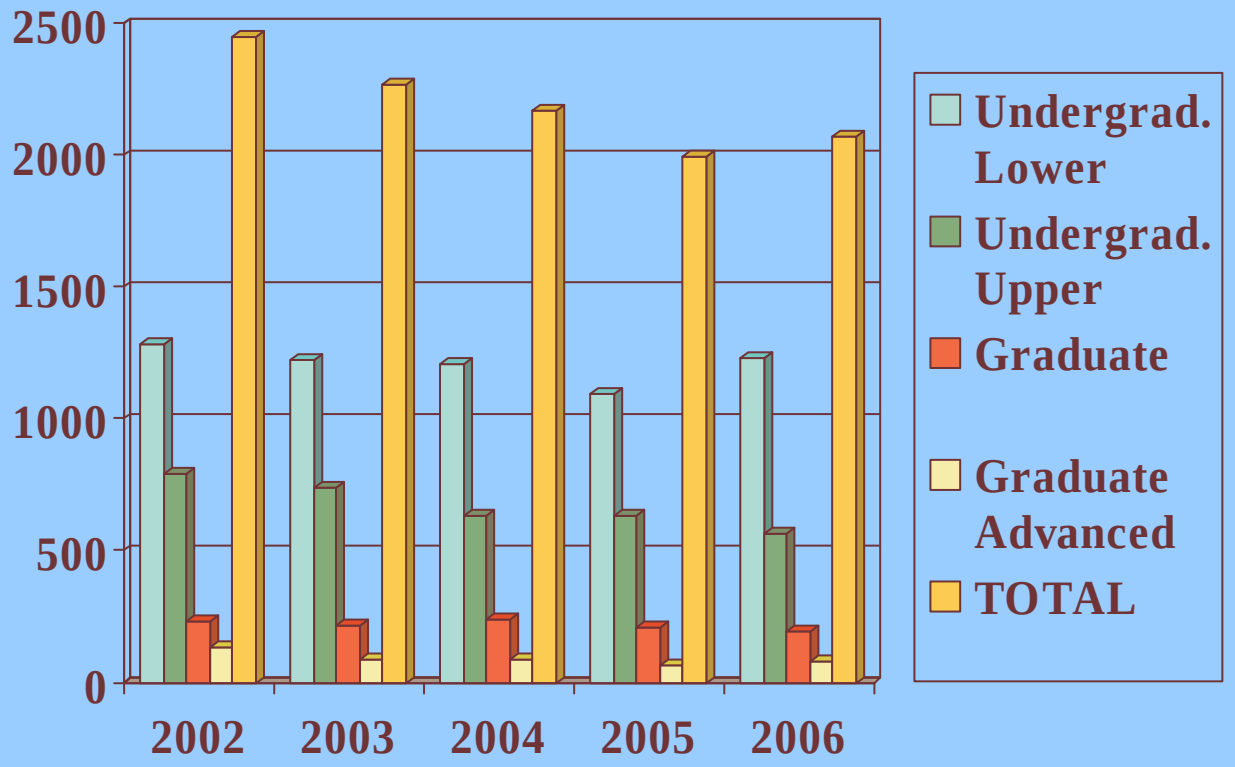


Assistant Chair &
Chief Undergraduate
Advisor:
Janet Brunelle

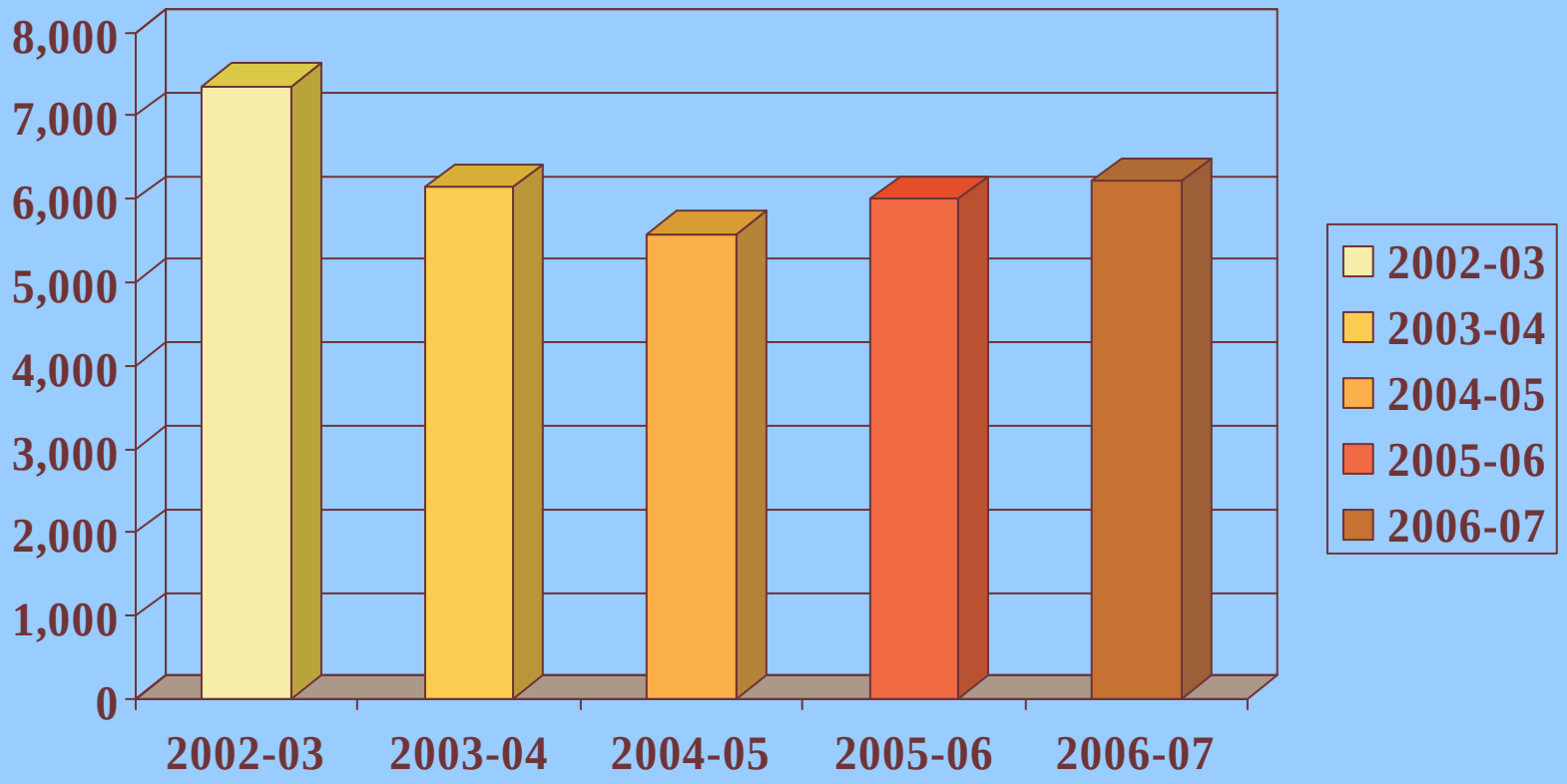
Graduate Program
Director & Graduate
Advisor:
Hussein Abdel Wahab

Director of Computer
Resources:
Ajay Gupta

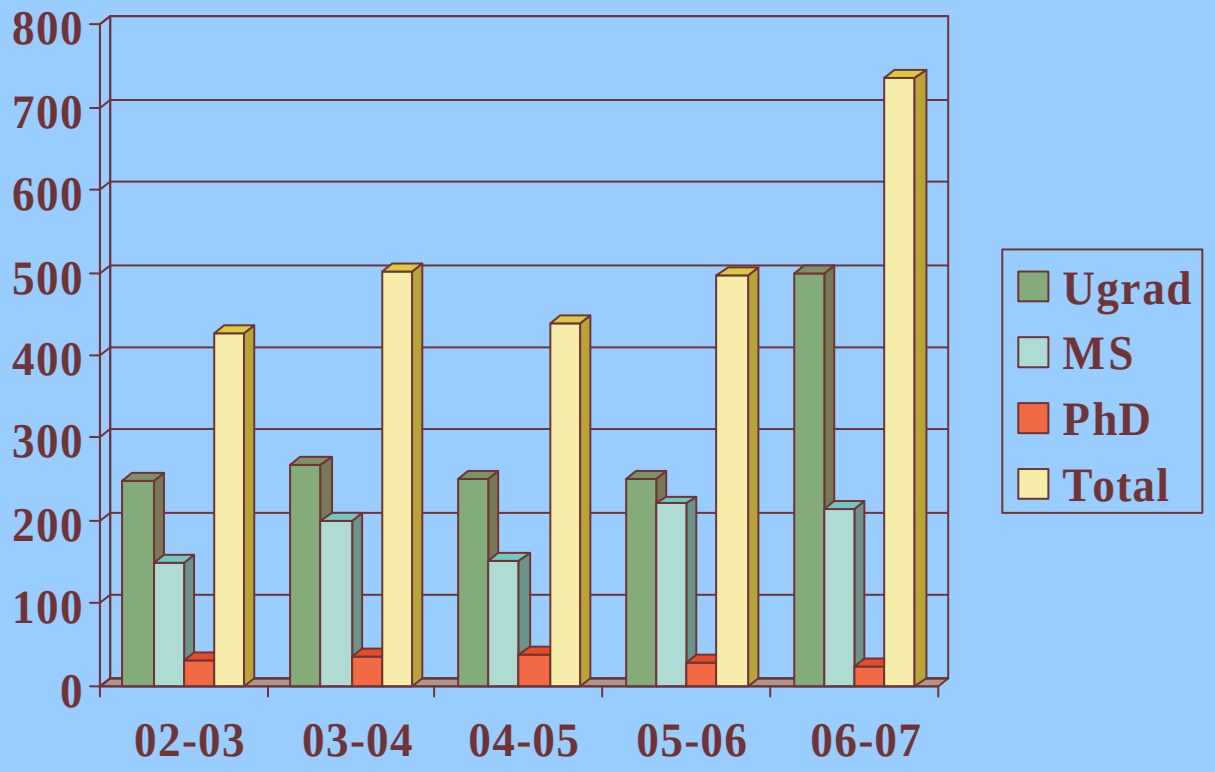
Enrollment Comparisons
Students/course - Fall



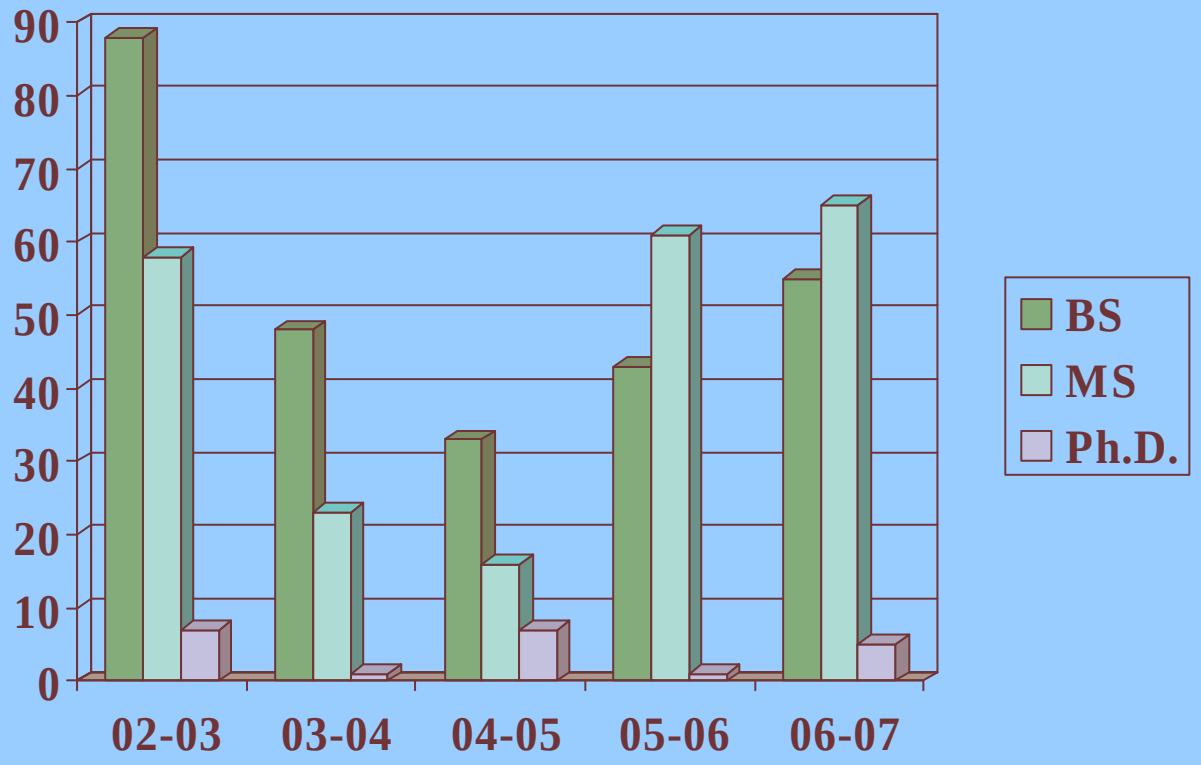
SCH/Semester Students



HEADCOUNT MAJORS

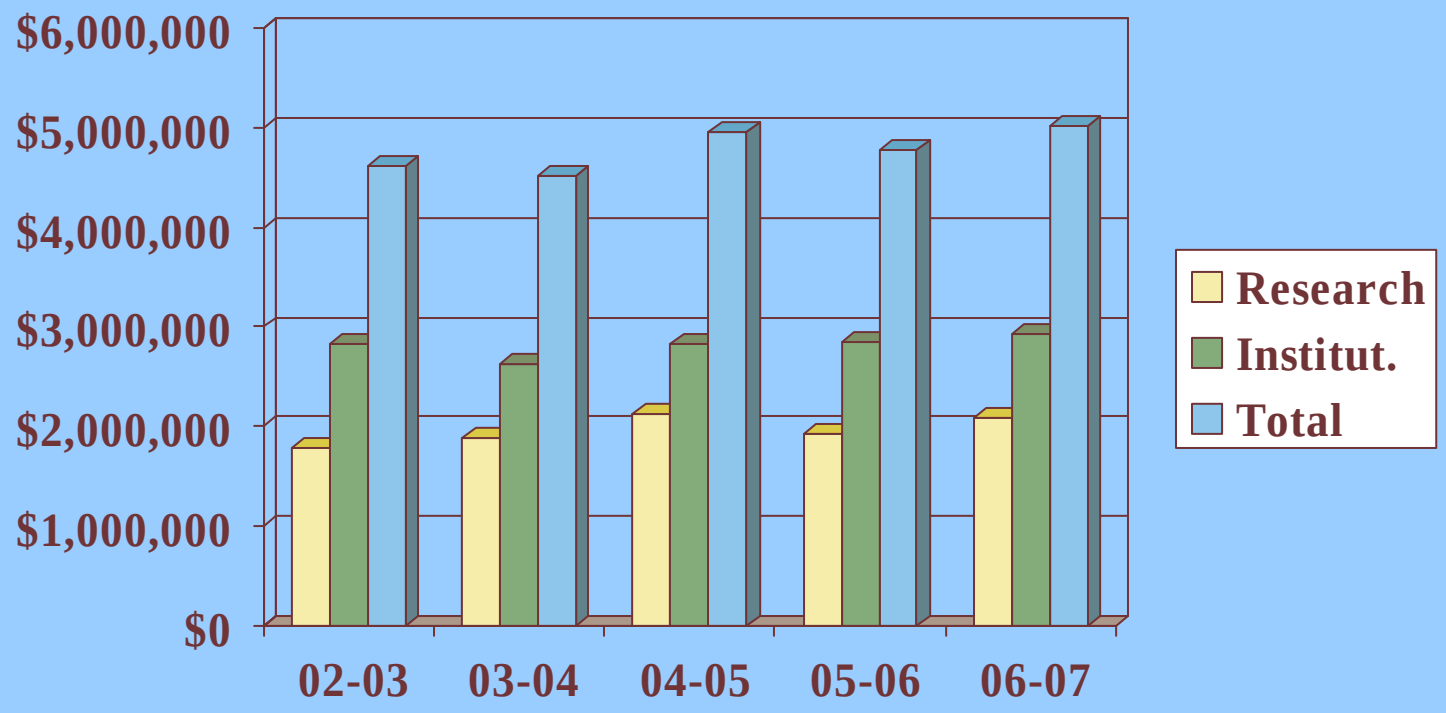


GRADUATES



Department Budget

Per Fiscal year (millions)



Scholarly Contributions

Journal Articles & Conference Proceedings

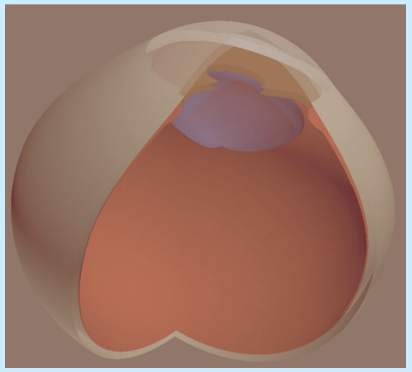
92-142/year for Department

Physically-Based Modeling & Visualization

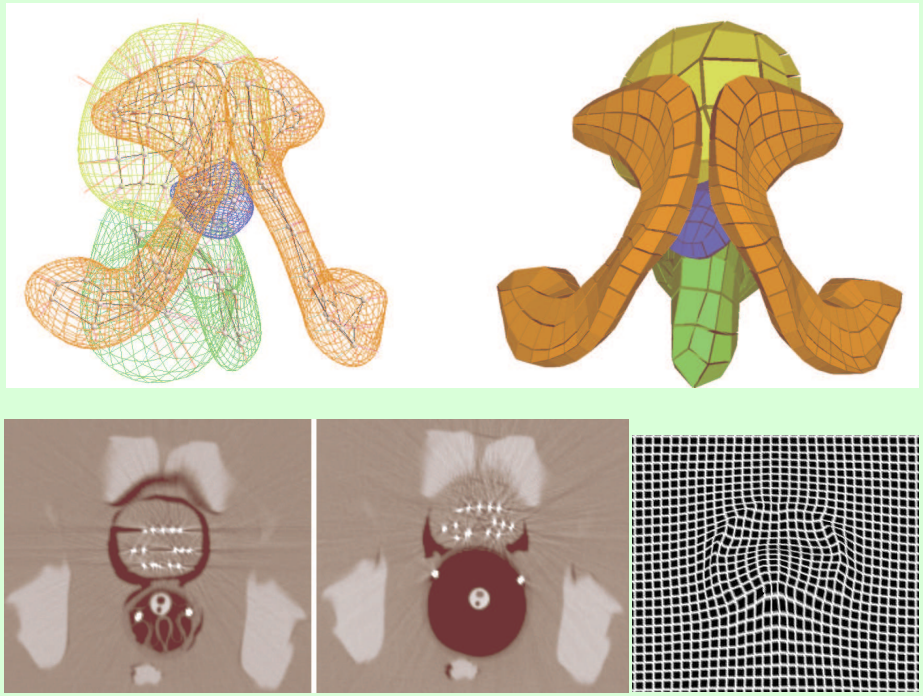
Dr. Jessica Crouch (www.cs.odu.edu/~jrcrouch)

Research Emphasis:

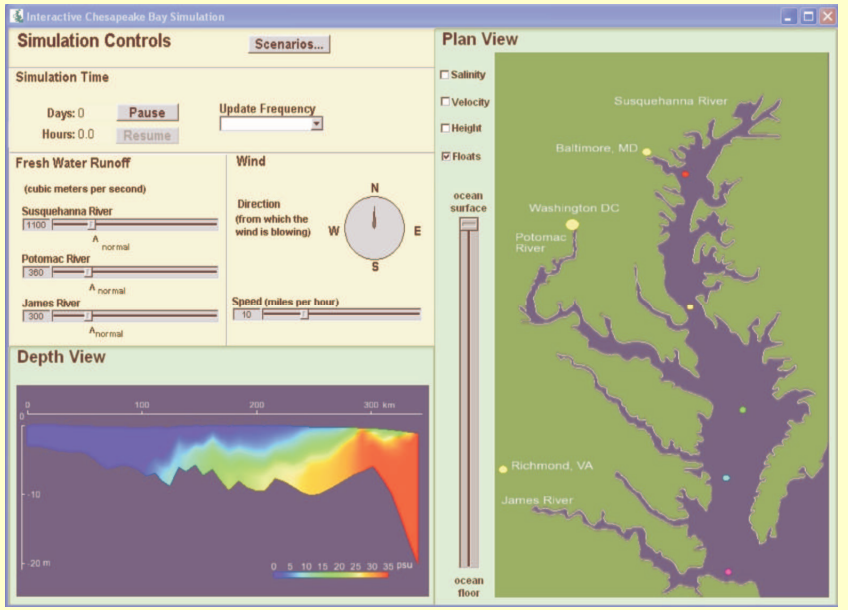
Algorithms for constructing, solving, & visualizing physically-based models



Application: Eye modeling & cataract surgery simulation



Application: Deformable prostate image registration



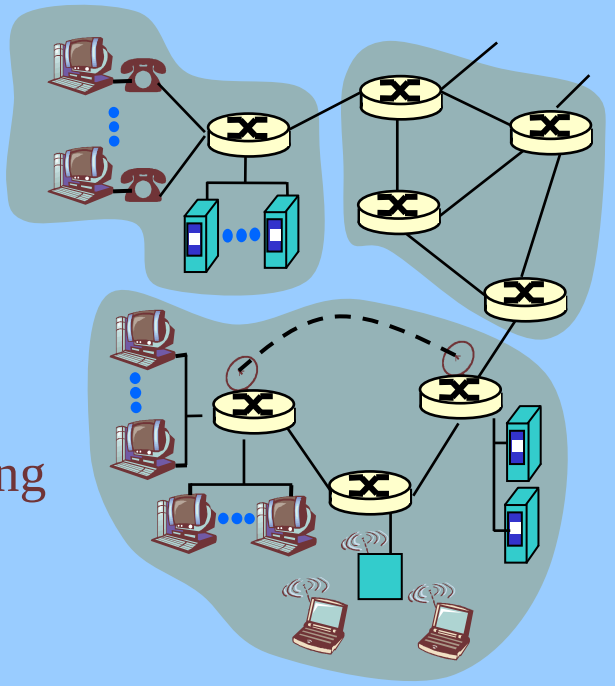
Application: Interactive ocean circulation simulation

Networking

Michele Weigle - http://www.cs.odu.edu/~mweigle/

Realistic Internet Simulation

enabling high-quality network research by simulating/emulating realistic Internet traffic for use in network testbeds and simulators



High Speed TCP

enabling large scientific-data transfers by modifying TCP for use on high speed networks

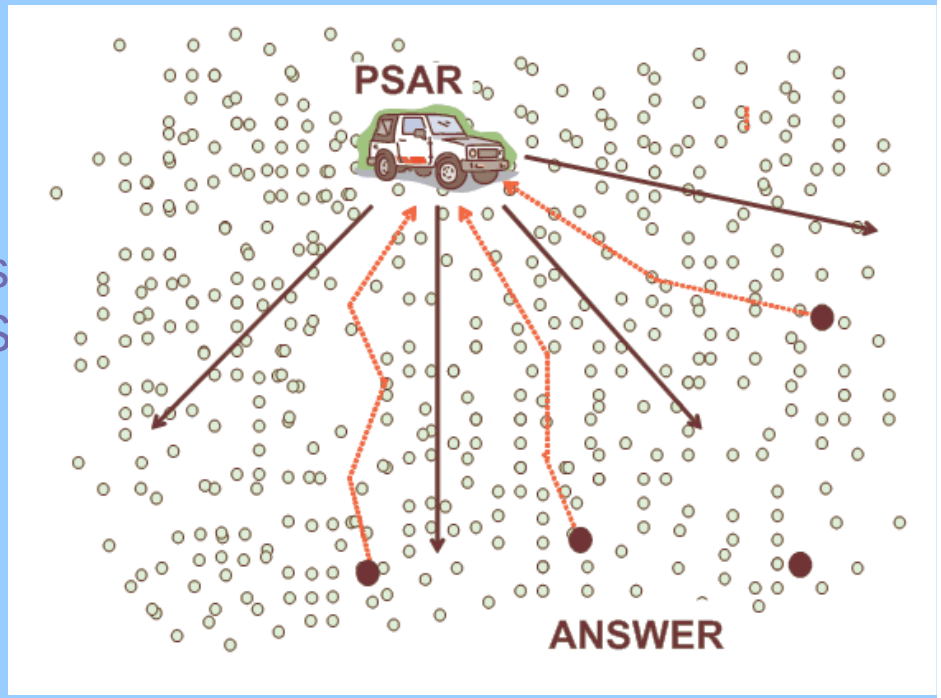
Vehicular Networking

enabling in-vehicle notification of traffic congestion by designing protocols for vehicle-to-vehicle communication

Wireless networks

Autonomous sensor networks

An integrated multi-layer design methodology with cross-layer optimization for networking autonomous sensor systems will enable secure, QoS aware information services to in-situ mobile users



Vehicular ad hoc networking

Design efficient protocols for vehicle-to-vehicle communication

S. Olariu - http://www.cs.odu.edu/~olariu

Automated metadata extraction: funded by DTIC, NASA, GPO

Original document

UNITED STATES TRADE DISPUTES IN PERU AND ECUADOR

HEARING

BEFORE THE

SUBCOMMITTEE ON
THE WESTERN HEMISPHERE

OF THE

COMMITTEE ON
INTERNATIONAL RELATIONS
HOUSE OF REPRESENTATIVES

ONE HUNDRED EIGHTH CONGRESS

SECOND SESSION

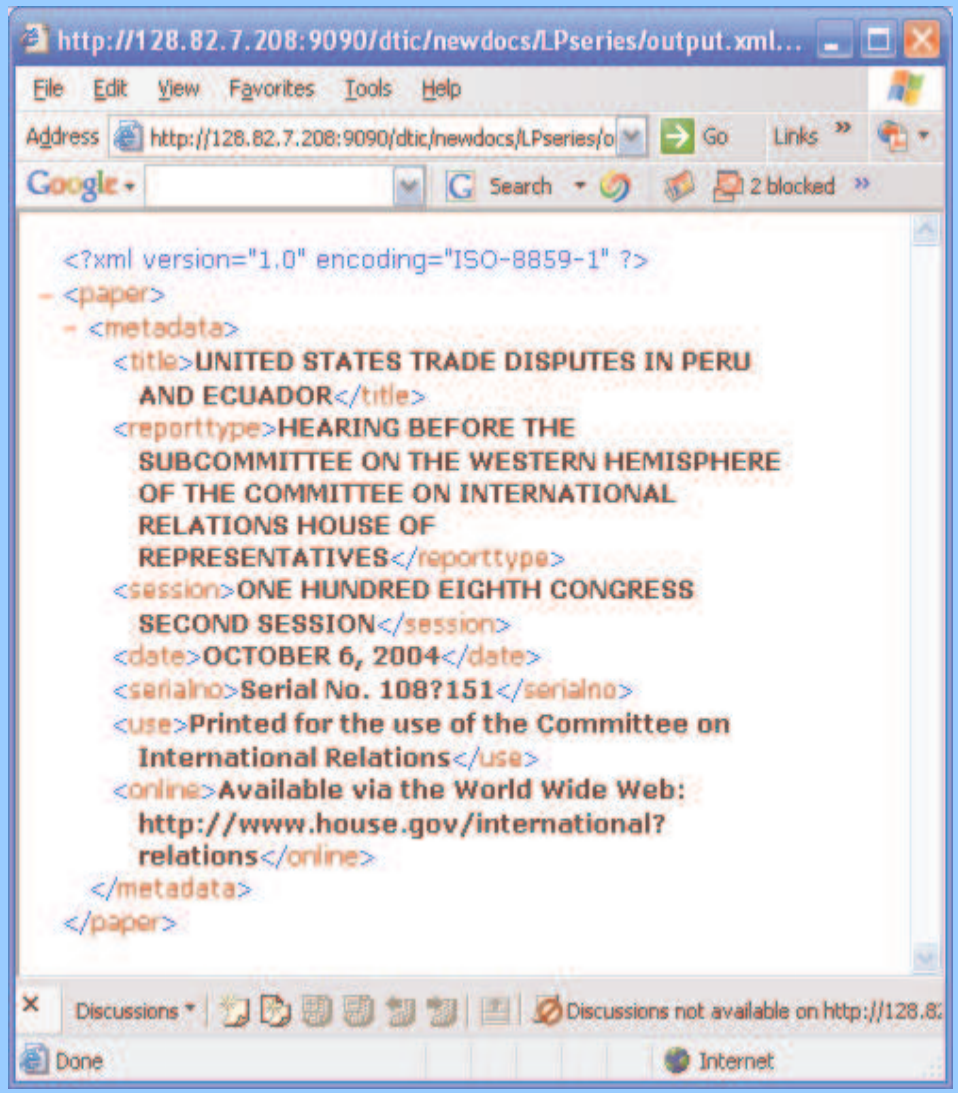
OCTOBER 6, 2004

Serial No. 108–151

Printed for the use of the Committee on International Relations

Available via the World Wide Web: http://www.house.gov/international_relations

Extracted Metadata



http://dlib.cs.odu.edu

digital library research

Michael L. Nelson

www.cs.odu.edu/~mln/

projects:

- alternative models of digital preservation
- self-preserving digital objects
- object / repository interaction (OAI-PMH, OAI-ORE)

funding:

- PI or Co-PI on 9 grants, > $2.3M USD since 2001
- NASA, NSF, Library of Congress, Andrew Mellon Foundation
- NSF Career Award 2007-2011

you will:

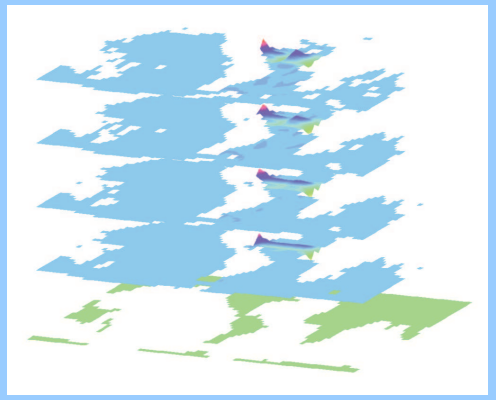
- publish in top conferences and travel to present your results
- collaborate with world renown DL researchers

current phd students:

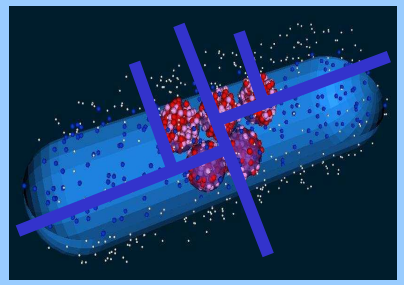
www.cs.odu.edu/~{fmccown,jsmit,mklein}

Computational Science (Alex Pothen)

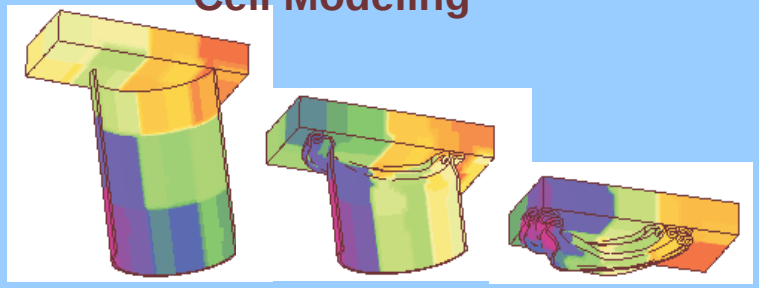
- Combinatorial Scientific Computing on Tera- and Peta-scale supercomputers (CSCAPES) Institute, $7 Million for five years, Dept. of Energy.
- Collaborators: Sandia, Argonne National Labs, and two Universities.
- Parallelization toolkits, Automatic differentiation, compiler and run-time tools for enhancing performance, and parallel graph and matrix algorithms
- Students placed at Livermore, Argonne, Oak Ridge National Labs, and industries such as AT&T, Oracle, IBM; and at Penn State, Drexel, and similar Universities.
- Group includes two post-doctoral scientists, five PhD students, and undergraduates.



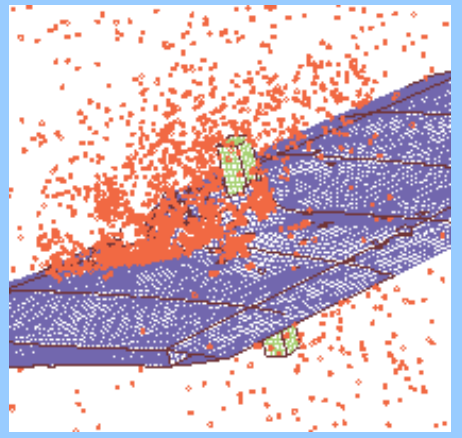
MIT Climate model



Cell Modeling



Crash simulations



Particle methods

The research is centered on understanding and modeling the physics of ocean turbulence and has theoretical and computational components. A major topic is the interaction of currents, wind driven surface waves, and turbulence. The theory uses a triple decomposition technique to derive equations for these components and their interactions and tensor representations of high-order correlations. The computational methods, Direct Numerical Simulation and Large Eddy Simulation, simulate the flows and permit direct computation of the statistical correlations. Much of our recent research is centered on understanding the dynamics of Langmuir turbulence.

Ocean modeling

Chester Grosch

The research is centered on understanding and modeling the physics of ocean turbulence and has theoretical and computational components. A major topic is the interaction of currents, wind driven surface waves, and turbulence. The theory uses a triple decomposition technique to derive equations for these components and their interactions and tensor representations of high-order correlations. The computational methods, Direct Numerical Simulation and Large Eddy Simulation, simulate the flows and permit direct computation of the statistical correlations. Much of our recent research is centered on understanding the dynamics of Langmuir turbulence

- Research supported by the National Science Foundation