Introduction



Welcome!!



Boston CIBC Workshop 2009
Northeastern University
January 18 and 19 2009





Welcome!



Introduction

Center for Integrative Biomedical Computing

Goals

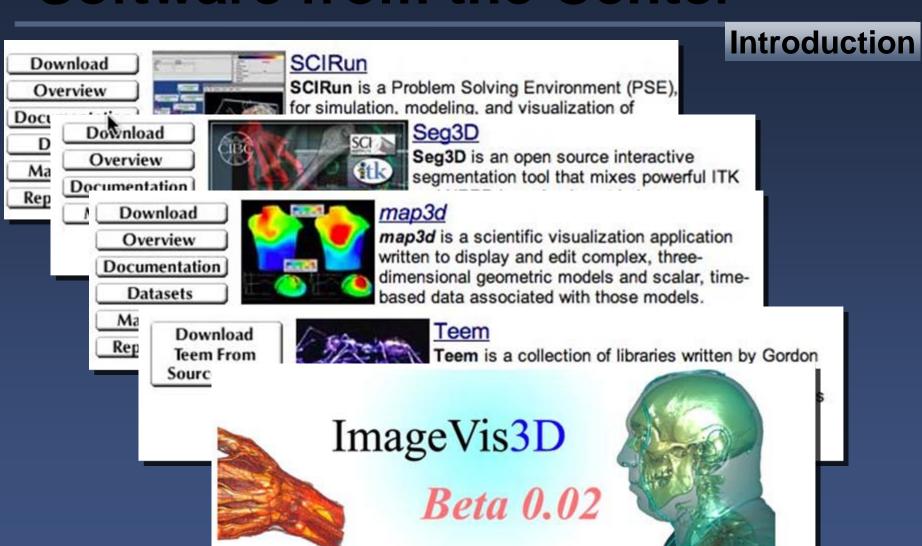
- Produce cutting edge software for biomedical researchers
- Develop new techniques and algorithms in image processing, geometric modeling, simulation and visualization
- Carry out original research in segmentation, bioelectric field simulation, and visualization







Software from the Center











Purpose of the Workshop

Introduction

Describe our software
Use our software
Improve our software
Develop relationships





Boston Workshop Personnel

Introduction

PI

Dana Brooks

Workshop Leader / Staff Scientist

Jeroen Stinstra

Developer Team

- Ayla Khan
- Tom Fogal

PhD Student Teaching Assistants

- Burak Erem
- Sila Kurogol







Introduction

Workshop Logistics





Schedule Today

Sunday, 1	18th January (Seg3D/ImageVis3D workshop):
1:00 - 1:10	Introduction (Dana Brooks)
1:10 - 1:40	Segmentation overview (Dana Brooks)
1:40 - 2:10	Demo Seg3D (Jeroen Stinstra)
2:10 - 2:30	- Break -
2:30 - 3:00	Seg3D Tutorial (Jeroen Stinstra, Ayla Khan)
3:00 - 3:40	ImageVis3D (Tom Fogal)
3:40 - 6:00	ImageVis3D Tutorial (Tom Fogal)









Schedule Tomorrow

Monday,	19th January (SCIRun workshop):
9:00 - 9:30	Overview CIBC Center & Software Download (Dana Brooks & Ayla Khan)
9:30 - 10:00	SCIRun Basics Part 1 (Jeroen Stinstra)
10:00 - 10:20	SCIRun Lab 1 (Ayla Khan)
10:20 - 10:40	- Break -
10:40 - 11:10	SCIRun Basics Part 2 (Jeroen Stinstra)
11:10 - 12:00	SCIRun Lab 2 (Ayla Khan)
12:00 - 1:00	- Lunch Break -
1:00 - 2:00	SCIRun: Creating a model in SCIRun (Jeroen Stinstra)
2:00 - 2:20	- Break -
2:20 - 4:00	SCIRun Lab 3 (Jeroen Stinstra & Ayla Khan)







Workshop Dinner Plans

Introduction

Group Dinner to be Organized for Interested Participants

Let us know if you want to join us









2009 IEEE International Symposium on Biomedical Imaging: From Nano to Macro

June 28 – July 1, 2009 Boston, Massachussetts, U.S.A.



Home

Program

Celebrating 125 Years
of Engineering the Future

Preliminary Program

Plenary Speakers

Special Sessions

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Call for Papers

Important Dates

Paper Kit

Online Submission

Attendees

Registration

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Venue

About Boston

Transportation

Organization

Organizing Committee

Contact Information

Previous ISBIs

Future ISBIs

Reviewers

NAME AND DESCRIPTION OF THE OWNER, WHEN PERSONS ASSESSMENT OF THE OWNER, WHEN PERSONS ASSESSMENT OF THE OWNER,

Online Reviewing

The Sixth IEEE International Symposium on Biomedical Imaging (ISBI'09) will be held June 28 - July 1, 2009 in Boston, Massachusetts, U.S.A.. ISBI is widely recognized as the preeminent international forum for the presentation of leading-edge research in the biomedical imaging field. The symposium supports a tradition of cross-fertilization between different imaging communities an integrative approach across all observation scales.

Latest Information

Call for Papers: Extension of submission deadline to January 26, 2009.

No further extensions are possible.

Deadline for 4-page paper is $\frac{1}{2}$ January 26, 2009, Midnight at UTC -12 hours.

NEW! Special Workshops

Don't miss these special learning opportunities!

Current and Future Challenges in Clinical Imaging

This workshop will feature three world-renowned clinicians from Massachusetts General Hospital and Harvard Medical School who will discuss biomedical imaging challenges confronting clinical research and patient care:

- · Cardiac imaging, Thomas J. Brady, MD
- Brain imaging, A. Gregory Sorensen, MD.
- Breast imaging, Dan Kopans, MD.

Large multi-institutional programs

More details soon!

NEW! Plenary Speakers

Potential and Possibilities: From the Very Critical to the Very Difficult

Thomas Miller

Chief Executive Officer, Workflow and Solutions Division Siemens Healthcare

Advances in Molecular Imaging

Ralph Weissleder

Director, Center for Molecular Imaging Research

Director, Center for Systems Biology

Massachusetts General Hospital and Harvard Medical School

Nanoscopic Imaging of Biomolecules, Cells and Tissues

Xiaowei Zhuang

Professor of Chemistry and Chemical Biology

Professor of Physics

Harvard University

NEW! Special Sessions

- Statistical methods in neuroimage analysis
- Computational and visualization challenges in virtual colonoscopy
- Super-resolution processing in medical imaging
- Technological advances in ultrasound contrast agents
- · Emerging photonic imaging techniques
- Biomedical computing on many cores
- Large-scale physiological modeling and simulation initiatives

Memo (to self)

Introduction

Please turn cell phones/pagers on vibrate





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