



The Utah Integrated Environment for Image Based Modeling, Simulation, and Visualization

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"Pie in the Sky"









































The Problem Solver's Toolbox for Bioelectricity and Biomagnetism

or the "This Old House Approach to Maxwell's Equations"

















Utah Torso

Weinstein Head Model























Image Visualization



Image Based Shape Analysis





Average Hand

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Geometric Mesh Construction



Talk Josh Levine











Includes: vasculature, recording needle electrodes, fiber structure.





























Example: Inverse Solution





CIBC

Phantom Validation Data







Utah torso tank with isolated heart





Evaluation of Defibrillation

SC







Validation Through Experiments





Defibrillation simulation and validation





Validation Through Experiments





Status/Timeline

SCI Home About	SCI Research	Publications	Media	Software	Collaborators	People	Contact		
The Scientific Co	omputing and Ima at the Universi	iging Institut ity of Utah	te			} #			Servi
Home > Download									
SCI	_								
CI Home	Download	SCIRun							
hourt SCI	(Latest Version 4.5)								
	Version 4.5								
tesearch	Dela esti TPD								
Publications	Released: TBD								
Nedia	[Release Notes]								
oftware	Note: SCIRun 4.5	5 is the latest DEV	ELOPMEN	F build, which co	ontains beta versions o	of new function	onality that we are	e currently deve	loping. For a STABLE
Collaborators	release please do	whicad version 4.	4.						
	File		21		Product		Version	Size	Distribution
eople	SCIRun_4.5_201	SCIRun_4.5_20100813_osx64.dmg			SCIRun		4.5	98 MB	osx64
ontact	SCIRun_4.5_201	SCIRun_4.5_20100813_osx32.dmg			SCIRun		4.5	97.3 MB	osx32
	SCIRun_4.5_201	SCIRun_4.5_20100813_source.tgz			SCIRun		4.5	65.8 MB	source
GWA	SCIRun_4.5_201	SCIRun_4.5_20100813_linux.tgz			SCIRun		4.5	65.8 MB	linux
eminars & Events	SCIRunData_4.5_20100813_data.tgz				SCIRunE	Jata	4.5	546.8 MB	data
	SCIRunData_4.5_20100813_data.zip				SCIRunE	lata	4.5	547 MB	data
	SCIRun_4.5_20100817_win64.exe				SCIRun		4.5	25.5 MB	win64
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Post Doctoral Fellowship:

The NIH Center for Integrative Biomedical Computing (CIBC, www.sci.utah.edu/cibc) at the Scientific Computing and Imaging (SCI) Institute, University of Utah, invites applications for a post-doctoral researcher for interdisciplinary research at the intersection of biomedical image analysis, geometric modeling, simulation, numerical methods, and scientific visualization.











More Information

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SC INSTITUT The Center for Integrative Biomedical Computing at the University of Utah

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www.sci.utah.edu/cibc

