



Visions for Quantitative Biology Lecture Series

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Parca: A Paramesh-Cactus Interface, or Research Opportunities in Industry: One Small-Business Perspective
David Fiske

Senior Engineering/Scientist, Decisive Analytics Corporation

Johnston Hall 338

June 07, 2006 - 10:00 am

Abstract:

This talk has two titles reflecting two distinct but interwoven themes. The technical content of this talk will focus on the Parca code, currently under development by partnership between Decisive Analytics and CCT. The goal of the Parca project is to provide the adaptive mesh refinement capabilities of the Paramesh computational libraries to Cactus users. We plan to achieve this technical goal by writing a

Speaker's Bio:

David Fiske earned his Ph.D. in Physics from the University of Maryland in 2004. His dissertation research, conducted at Penn State and NASA Goddard Space Flight Center in addition to Maryland, focused on controlling constraint violating modes in the free evolution of the Maxwell and Einstein equations and on extracting gravitational waveforms from numerical relativity simulations using fixed mesh refinement techniques. He is currently a senior engineer/scientist at Decisive Analytics Corporation where he manages and contributes to research and development projects in the areas of mathematical modeling, intelligent reasoning under uncertainty, and real-time resource allocation problems.



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