

TROY UNIVERSITY

Presents the Ninth Annual Computer Science Colloquium on Information Technology

Applications in Adversarial Risk Analysis

Monday, April 7, 2008

5:30 p.m. - 6:30 p.m.

Troy University

Rosa Parks Library and Museum
Auditorium

Adversarial risk analysis is a new research area that combines elements of statistical risk analysis, mathematical game theory and economic portfolio analysis. This talk describes applications in counterterrorism, computer security, corporate competition and regulatory policy. A key ingredient is the Kadane-Larkey formulation of game theory, which is a Bayesian alternative to the less flexible, and less realistic, minimax criterion.

Dr. David Banks Duke University

Dr. David Banks is a Professor of Practice of Statistics at Duke University. He is currently the coordinating editor of the Journal of the American Statistical Association, Chair of the ASA Section on Defense and National Security, and a member of the ASA Board of Directors. Previously, he held three positions in the federal government (the FDA, the DOT, and the National Institute of Standards and Technology) and academic positions at Carnegie Mellon and the University of Cambridge. His research involves Risk Analysis, metabolomics, network models, and data mining.

For additional information, please contact Dr. Mehmet Sahinoglu, Eminent Scholar and Professor, Department of Computer Science, Troy University at (334) 832-7289 or E-mail (mesa@troy.edu).

The Colloquium is supported by the Troy University Department of Computer Science, College of Arts and Sciences and The Graduate School.



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TROY UNIVERSITY COMPUTER SCIENCE DEPT.'S INFORMATION TECHNOLOGY SEMINAR - 2008

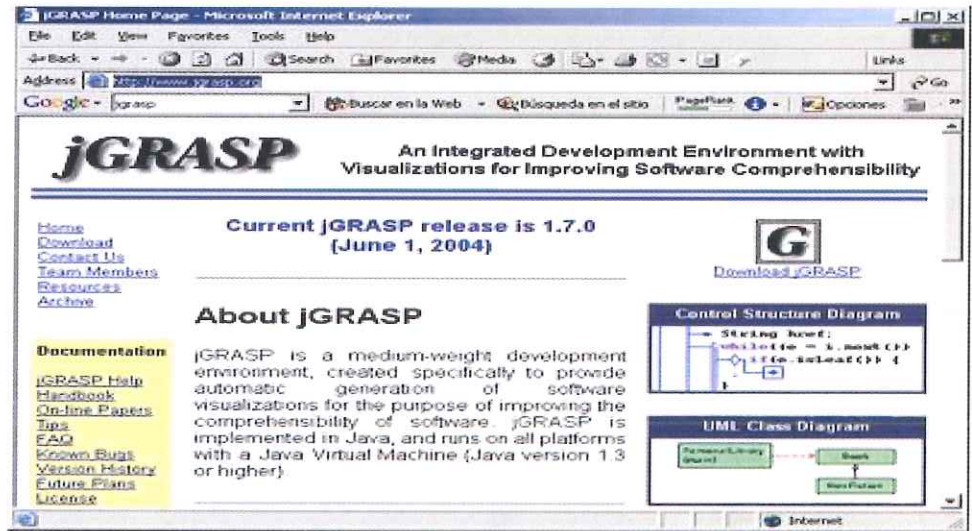
jGrasp: Intuitive Visualizations for Understanding Software

Presented by:
Dr. James H.
Cross II
Dept. of
Computer Science
and Software
Engineering
Auburn University

Tuesday April 29,
2008
5:30 pm - 6:30 pm
Troy University
Rosa Parks
Library and
Museum
Auditorium

For additional information, please
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ABSTRACT: jGrasp is an IDE that provides automatic generation of visualizations for the major object-oriented concepts in Java: control structures, classes, interfaces, objects, inheritance, polymorphism, composition, and data structures. jGrasp produces Control Structure Diagrams (CSDs), UML class diagrams and most recently, dynamic object views that work in conjunction with the visual debugger and workbench. A data structure identifier mechanism attempts to identify and render traditional abstract visualizations for common data structures such as stacks, queues, linked lists, binary trees, heaps, and hash tables. These are dynamic visualizations in that they are generated while running the user's program in debug mode. Hence, they can help bridge the gap between implementation and the conceptual view of data structures.

BIO: Dr. Cross is a Professor of Computer Science and Software Engineering at Auburn University where he served two terms as department chair (1996-2006). Dr. Cross teaches and directs research in the areas of object-oriented design and programming, visualization, and environments. His recent efforts include the jGrasp research project which is focused on the automatic generation of Graphical Representations of Algorithms, Structures and Processes for software (<http://www.jgrasp.org>).