# Conference Schedule and Preliminary Program

## ACMSE 2008

March 28-29, 2008  
Auburn University Hotel and Conference Center  
http://eng.auburn.edu/acmse/

## Conference Schedule

### Thursday March 27

- 6:30 PM – 8:30 PM: Pre-Conference Reception (Shelby Center)

### Friday March 28

- 8:30 AM – 9:45 AM: Opening Plenary Session  
  - Keynote: Dr. Jeannette Wing
- 9:45 AM – 10:15 AM: Break
- 10:15 AM – 11:30 AM: Paper Session A
- 11:45 AM – 12:45 PM: Lunch
- 1:00 PM – 2:30 PM: Paper Session B
- 2:40 PM – 3:30 PM: Paper Session C
- 3:30 PM – 3:45 PM: Break
- 3:45 PM – 4:50 PM: Paper Session D
- 5:00 PM – 6:30 PM: Posters and Workshop
- 6:45 PM – 8:45 PM: Conference Banquet  
  - Keynote: Dr. Mark Guzdial

### Saturday March 29

- 8:30 AM – 10:00 AM: Paper Session E
- 10:00 AM – 10:30 AM: Break
- 10:30 AM – 12:15 PM: Paper Session F
- 12:30 PM – 1:30 PM: Lunch and Awards
- Conference Closes

## Registration and Check-In

### Thursday March 27

- 6:30 PM – 8:30 PM: Shelby Center and Conference Center

### Friday March 28

- 7:30 AM – 5:00 PM: Conference Center

### Saturday March 29

- 7:30 AM – 8:30 AM: Conference Center
Preliminary Program

Friday March 28, 2008

Session A  Friday March 28 • 10:15 AM – 11:30 AM

<table>
<thead>
<tr>
<th>Track A1</th>
<th>Computer Organization/Architecture/Operating Systems</th>
<th>Room A</th>
</tr>
</thead>
</table>
|          | *High Precision Automatic Scheduling of Periodic Task Sets for Microcontrollers*  
Benjamin Ness, Vanderbilt University  
Gabor Karsai, Vanderbilt University |
|          | *Energy Efficient and Reliable Storage Disks*  
Kiranmai Bellam, Auburn University  
Adam Manzanares, Auburn University  
Xiao Qin, Auburn University |
|          | *Customized File Systems: An Investigator's Approach* (Student Paper)  
Marc Parisi, Mississippi State University |

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<tr>
<th>Track A2</th>
<th>Computing Education</th>
<th>Room B</th>
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|          | *Biometrics Education with Hands-on Labs*  
Li Yang, University of Tennessee at Chattanooga  
Kathy Winters, University of Tennessee at Chattanooga  
Joseph M. Kizza, University of Tennessee at Chattanooga |
|          | *FunFonts: Introducing 4th and 5th Graders to Programming Using Squeak*  
Arturo J. Sánchez-Ruíz, University of North Florida  
Lisa A. Jamba, University of North Florida |
|          | *A Review of Using Design Patterns in CS1* (Student Paper)  
Jacqueline Hundley, Auburn University |

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<tr>
<th>Track A3</th>
<th>Data Mining and Database Systems</th>
<th>Room D</th>
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</table>
|          | *Mining Frequent Sequential Patterns with First-Occurrence Forests*  
Erich A. Peterson, University of Arkansas at Little Rock  
Peiyi Tang, University of Arkansas at Little Rock |
|          | *Xdiff+: A Visualization System for XML Document and Schema*  
Guangming Xing, Western Kentucky University  
Zhonghang Xia, Western Kentucky University  
Huanjing Wang, Western Kentucky University |
|          | *A Bioinformatics-Inspired Adaptation to Ukkonen's Edit Distance Calculating Algorithm* (Student Paper)  
Bruce Johnson, University of Tennessee |

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<tr>
<th>Track A4</th>
<th>Artificial Intelligence</th>
<th>Room E</th>
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</table>
Training Approaches in Neural Enhancement for Multiobjective Optimization
Aaron Garrett, Jacksonville State University
Gerry V. Dozier, North Carolina A&T University

Generating Better Text Summaries for a Patient Simulation Program
Kuo-pao Yang, Southeastern Louisiana University
Martha W. Evens, Illinois Institute of Technology
David Trace, Trace Consulting

Optimal Artificial Neural Network Topology for Foreign Exchange Forecasting (Work in Progress)
Ahmed Emam, Western Kentucky University

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<tr>
<th>Track A5</th>
<th>Systems and Applications</th>
<th>Room G</th>
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</table>
| **Parallel Integration of Planetary Systems on GPUs**
  Jianwei Gao, University of Florida
  Eric Ford, University of Florida
  Jörg Peters, University of Florida |
| **Evaluating Service-Based Software Applications** (Student Paper)
  Kinnis Gosha, Auburn University
  Jakita O. Thomas, IBM Almaden Research Center |
| **Comparison of Microarray Image Analysis Software** (Student Paper)
  Richa Tiwari, University of Alabama at Birmingham |

Friday March 28, 2008

Session B  Friday March 28 • 1:00 PM – 2:30 PM

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<thead>
<tr>
<th>Track B1</th>
<th>Software Engineering</th>
<th>Room A</th>
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</table>
| **Extreme Programming for a Single Person Team**
  Ravikant Agarwal, Auburn University
  David Umphress, Auburn University |
| **The Automated Web Application Testing (AWAT) System**
  Mate’ Sztipanovits, Southern Polytechnic State University
  Kai Qian, Southern Polytechnic State University
  Xiang Fu, Georgia Southwestern State |
| **A Concurrent Automatic Programming System** (Student Paper)
  K. E. Kennedy, Clemson University |
| **Heavyweight or Lightweight: A Process Selection Guide For Developing Grid Software** (Work in Progress)
  Cong Liu, Auburn University
  David Umphress, Auburn University |

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<tr>
<th>Track B2</th>
<th>Computing Education</th>
<th>Room B</th>
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<tr>
<td><strong>Competence and Character: Pedagogical Considerations for</strong></td>
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</table>
Preparing Students to be Professionals
John M. Hunt, Covenant College

Service Learning Meets Mobile Computing
Susan Reiser, University of North Carolina at Asheville
Rebecca Bruce, University of North Carolina at Asheville

Web Based Ink Submission and Playback in MessageGrid (Work in Progress)
David R. Bowman, Clemson University

Using Greenfoot and a Moon Scenario to Teach Java Programming in CS1 (Work in Progress)
Randy J. Gallant, University of Guelph-Humber
Qusay H. Mahmoud, University of Guelph-Humber

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<tr>
<th>Track B3</th>
<th>Database Systems</th>
<th>Room D</th>
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<tr>
<td>A Domain-independent, Ontology-agnostic Approach to Leveraging Unstructured Data Sources</td>
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<td>Christine Le, University of Arkansas at Little Rock</td>
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<td>Srini Ramaswamy, University of Arkansas at Little Rock</td>
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<td>Coskun Bayrak, University of Arkansas at Little Rock</td>
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<tr>
<td>A New Watermarking Approach for Relational Data (Student Paper)</td>
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<td>Vahab Pournaghshband, University of California, Berkeley</td>
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<td>SubCOID: An Attempt to Explore Cluster-Outlier Iterative Detection Approach to Multi-Dimensional Data Analysis in Subspace (Work in Progress)</td>
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<td>Yong Shi, Kennesaw State University</td>
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<td>Effects of Multiple Words on Ambiguity in Information Retrieval (Work in Progress)</td>
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<td>Clint Fuchs, University of South Carolina</td>
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<td>Caroline Eastman, University of South Carolina</td>
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<th>Track B4</th>
<th>Artificial Intelligence and Computational Methods</th>
<th>Room E</th>
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<tr>
<td>A study of fuzzy clustering within the IGSCR framework</td>
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<td>Rhonda D. Phillips, Virginia Tech</td>
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<td>Layne T. Watson, Virginia Tech</td>
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<td>Randolph H. Wynne, Virginia Tech</td>
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<td>E-TCP: An Evolutionary Computation Approach for Congestion Avoidance in Bulk-Data Transfers Networks</td>
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<td>Taha Ben Brahim, Auburn University</td>
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<td>Driss Aboutajdine, University Mohamed V</td>
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<td>Saad Biaz, Auburn University</td>
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<td>Meta-BCS: A Novel Way to BCS Ranking Using Generalized Regression Neural Network and Genetic Algorithm (Work in Progress)</td>
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<td>Lei Zhang, Auburn University</td>
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<td>Haiquan Chen, Auburn University</td>
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Stabilized Approximate Inverse Preconditioners for Indefinite Matrices
Eun-Joo Lee, University of Kentucky

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<tr>
<th>Track B5</th>
<th>Systems and Applications</th>
<th>Room G</th>
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</table>
| OrganicPad: A Tablet PC Based Chemistry Tool (Student Paper)  
Sam Bryfczynski, Clemson University |
| TSPad: A Tablet-PC Based Application for Annotation and Collaboration on Time Series Data (Student Paper)  
William B. S. Pressly, Jr., Clemson University |
| Campus Directions (Work in Progress)  
Tim Hammond, Clemson University  
Tucker Watson, Clemson University  
Will Pressly, Clemson University |
| CU Safe: A Software Tool for Campus Safety (Work in Progress)  
Tucker Watson, Clemson University  
Tim Hammond, Clemson University  
Will Pressly, Clemson University |

Friday March 28, 2008

Session C  Friday March 28 • 2:40 PM – 3:30 PM

<table>
<thead>
<tr>
<th>Track C1</th>
<th>Software Engineering</th>
<th>Room A</th>
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</table>
| Automating Test Case Definition Using a Domain Specific Language  
Kyungsuo Im, Clemson University  
Tacksoo Im, Clemson University  
John D. McGregor, Clemson University |
| Agile Versus CMMI - Process Template Selection and Integration with Microsoft Team Foundation Server  
Robert Leithiser, Auburn University  
Drew Hamilton, Auburn University |

<table>
<thead>
<tr>
<th>Track C2</th>
<th>Computing Education</th>
<th>Room B</th>
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</table>
| Student Development of Web Services for the STEM Disciplines  
Barry L. Kurtz, Appalachian State University  
James B. Fenwick Jr., Appalachian State University |
| Testing the jGRASP Structure Identifier with Data Structure Examples from Textbooks  
Lacey Montgomery, Auburn University  
James H. Cross II, Auburn University  
T. Dean Hendrix, Auburn University  
Larry A. Barowski, Auburn University |

<table>
<thead>
<tr>
<th>Track C3</th>
<th>Database Systems</th>
<th>Room D</th>
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</table>
3D Ontology Visualization in Semantic Search  
Cody Buntain, University of Alabama in Huntsville

A Data Mining Study of the Matriculation of Covenant College Applicants (Student Paper)  
Christopher Jeff Stanley, Covenant College

Track C4 Network and System Security Room E

Digital Forensics: Forensic Analysis of an iPod Shuffle  
Iyatiti Mokube, Armstrong Atlantic State University

A Distributed Firewall and Active Response Architecture Providing Preemptive Protection  
J. Lane Thames, Georgia Institute of Technology  
Randal Abler, Georgia Institute of Technology  
David Keeling, Georgia Institute of Technology

Track C5 Programming Languages, Algorithms, and Theory Room G

A Space Efficient Algorithm for the Constrained Heaviest Common Subsequence Problem  
Rao Li, University of South Carolina Aiken

Using Java’s Generics Mechanism to Improve Type Safety in the Command Pattern  
Karl Ridgeway, Rosetta Stone, Ltd.  
David Bernstein, James Madison University  
John Magnotti, Auburn University

Friday March 28, 2008

Session D Friday March 28 • 3:45 PM – 4:50 PM

Track D1 Software Engineering Room A

Improving the Capstone Project Experience: A Case Study in Software Engineering (Student Paper)  
John G. Flowers, University of South Carolina

Open Source Software Development: Expectations and Experience From a Small Development Project (Work in Progress)  
Adanna Ezeala, Jackson State University  
Hyunju Kim, Jackson State University  
Loretta A. Moore, Jackson State University

Track D2 Computing Education Room B

Game Design from the Lens of a Student (Student Paper)  
E. Vincent Cross II, Auburn University  
Kinnis Gosha, Auburn University  
Wanda Eugene, Auburn University  
Francisco Arcediano, Auburn University  
Christin Hamilton, Auburn University
Jacqueline Hundley, Auburn University

*Studio-Based Learning in CS2: An Experience Report* (Work in Progress)
Lakshman Myneni, Auburn University
Margaret Ross, Auburn University
T. Dean Hendrix, Auburn University
N. Hari Narayanan, Auburn University

*Some Methods for Teaching Functions First Using Java* (Work in Progress)
Ian Barland, Radford University

### Track D3 Database Systems

<table>
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<tr>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>FuzzyShrinking: Improving Shrinking-based Data Mining</td>
<td>Yong Shi, Kennesaw State University</td>
</tr>
<tr>
<td>Algorithms Using Fuzzy Concept for Multi-Dimensional Data</td>
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<tr>
<td>An Online Condition Number Query System (Work in Progress)</td>
<td>Dianwei Han, University of Kentucky</td>
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<td>Shuting Xu, Virginia State University</td>
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<td>Jun Zhang, University of Kentucky</td>
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<tr>
<td>An Instance-Based Approach for Domain-Independent Schema Matching</td>
<td>Yan Liang, The University of Alabama</td>
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### Track D4 Software and System Security

<table>
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<tr>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>Gnutella: Integrating Performance And Security In Fully Decentralized P2P Models (Student Paper)</td>
<td>Rossana Motta, Florida State University</td>
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<td>Wickus Nienaber, Florida State University</td>
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<td>Jon Jenkins, Florida State University</td>
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<tr>
<td>Tracking Requirements and Threats for Secure Software Development</td>
<td>Brandon Malone, Tennessee Technological University</td>
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<td>Ambareen Siraj, Tennessee Technological University</td>
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### Track D5 Programming Languages, Algorithms, and Theory

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<tr>
<th>Title</th>
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<tr>
<td>A Little Language for Surveys: Constructing an Internal DSL in Ruby</td>
<td>H. Conrad Cunningham, University of Mississippi</td>
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<tr>
<td>Developing a Tokenizer and Morphological Parser for English Text in C# (Student Paper)</td>
<td>Cody Boisclair, The University of Georgia</td>
</tr>
<tr>
<td>Minimal Finite Automata from Finite Training Sets (Work in Progress)</td>
<td>Bennett Setzer, Kennesaw State University</td>
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### Saturday March 29, 2008

**Session E**  
Saturday March 29 • 8:30 AM – 10:00 AM

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<th>Track E1</th>
<th>Software Engineering</th>
<th>Room A</th>
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</thead>
</table>
|          | **Assessing Conformance of Pattern-based Design in UML**  
Jaeyong Park, George Mason University  
David C. Rine, George Mason University  
Elizabeth White, George Mason University  

**A Self-Testing Autonomic Job Scheduler** (Student Paper)  
Alain E. Ramirez, Florida International University  
Barbara Morales, University of Puerto Rico  
Tariq M. King, Florida International University  

**Certified Code Development for a Microcontroller Architecture**  
(Work in Progress)  
Nadeem Abdul Hamid, Berry College  

**Web Service Composition Process Verification Methods** (Work in Progress)  
Mate’ Sztpanovits, Southern Polytechnic State University

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<th>Track E2</th>
<th>Artificial Intelligence</th>
<th>Room B</th>
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|          | **Determining the Preferences**  
Earl B. Smith, Tuskegee University  

**Introducing a Vertical Viral Infection Method for Solving Problems with Evolutionary Programming** (Student Paper)  
Jonathan W. Lartigue, Auburn University  

**Nastaliq Optical Character Recognition** (Work in Progress)  
Sohail A. Sattar, University of Central Florida  
Shamsul Haque, NED University of Eng. & Tech  
Mahmood K. Pathan, NED University of Eng. & Tech  

**Effective Supervision of a Robot Team through User Interface Design** (Work in Progress)  
E. Vincent Cross II, Auburn University  
Juan Gilbert, Auburn University

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<th>Track E3</th>
<th>Human-Computer Interaction</th>
<th>Room D</th>
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|          | **Vibrotactile Glove Guidance for Semi-Autonomous Wheelchair Operations**  
H. Uchiyama, The University of Georgia  
M. A. Covington, The University of Georgia  
W. D. Potter, The University of Georgia  

**A Study of the Performance of Steering Tasks under Spatial Transformation of Input**
M. Eduard Tudoreanu, University of Arkansas at Little Rock
Eileen Kraemer, The University of Georgia

**Education and Design: Using Human-Computer Interaction Case Studies to Learn** (Student Paper)
Gregory Smith, Virginia Tech
Laurian C. Vega, Virginia Tech
D. Scott McCrickard, Virginia Tech

**COSA: A Contents-Oriented Self Adaptive Browsing Approach**
Li Liu, The University of Alabama
Jingyuan Zhang, The University of Alabama
Michael Galloway, The University of Alabama

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<th>Track E4</th>
<th>Security</th>
<th>Room E</th>
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<tr>
<td>Detection of Networks Blocks Used by the Storm Worm Botnet</td>
<td>Chun Wei, University of Alabama at Birmingham</td>
<td>Chun Wei, University of Alabama at Birmingham</td>
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<tr>
<td>Alan Sprague, University of Alabama at Birmingham</td>
<td>Gary Warner, University of Alabama at Birmingham</td>
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<tr>
<td><strong>A Case Study on Computer Security for Non-Expert Computer User</strong></td>
<td>Felicia Doswell, Norfolk State University</td>
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**Threat of Renovated .NET Viruses to Mobile Devices** (Student Paper)
Jose Andre Morales, Florida International University

**IT Security Risk Management** (Work in Progress)
Mohammed Ketel, University of Baltimore

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<tr>
<th>Track E5</th>
<th>Systems and Applications</th>
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<tr>
<td>SolarCAST: Using Widely Accessible Environmental Variables to Forecast Solar Power</td>
<td>Chris Hatfield, Asbury College</td>
<td>Chris Hatfield, Asbury College</td>
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<tr>
<td>David Umphress, Auburn University</td>
<td>David Umphress, Auburn University</td>
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**High Dynamic Range Imaging with PERIODIC** (Student Paper)
Brian Gray, Wake Forest University
Donghui Chen, Wake Forest University

**TabletNotes** (Student Paper)
David Dorothy, Clemson University

**Race Condition in Ajax-based Web Application** (Work in Progress)
Therese J Albert, Southern Polytechnic State University
Kai Qian, Southern Polytechnic State University
Xiang Fu, Southern Polytechnic State University

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<th>Simulation</th>
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<tr>
<td><strong>Construction of a Smooth Multivariate Simulation Environment from a Finite One-to-One Mapping</strong></td>
<td>Shaun Gittens, Auburn University</td>
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**Track E4**

- **Security**
- **Room E**

- Detection of Networks Blocks Used by the Storm Worm Botnet
- Chun Wei, University of Alabama at Birmingham
- Alan Sprague, University of Alabama at Birmingham
- Gary Warner, University of Alabama at Birmingham

- **A Case Study on Computer Security for Non-Expert Computer User**
- Felicia Doswell, Norfolk State University

- **Threat of Renovated .NET Viruses to Mobile Devices** (Student Paper)
- Jose Andre Morales, Florida International University

- **IT Security Risk Management** (Work in Progress)
- Mohammed Ketel, University of Baltimore

**Track E5**

- **Systems and Applications**
- **Room G**

- SolarCAST: Using Widely Accessible Environmental Variables to Forecast Solar Power
- Chris Hatfield, Asbury College
- David Umphress, Auburn University

- **High Dynamic Range Imaging with PERIODIC** (Student Paper)
- Brian Gray, Wake Forest University
- Donghui Chen, Wake Forest University

- **TabletNotes** (Student Paper)
- David Dorothy, Clemson University

- **Race Condition in Ajax-based Web Application** (Work in Progress)
- Therese J Albert, Southern Polytechnic State University
- Kai Qian, Southern Polytechnic State University
- Xiang Fu, Southern Polytechnic State University

**Track E6**

- **Simulation**
- **Room F**

- Construction of a Smooth Multivariate Simulation Environment from a Finite One-to-One Mapping
- Shaun Gittens, Auburn University
A Framework for Integrated Flight Simulation and Design (Student Paper)
Jeff Parrish, University of Georgia
Micah Cooper, University of Georgia

Reusing Objects for Realistic 3D Maps (Work in Progress)
Bradley J. Wimpey, The University of Georgia
Walter D. Potter, The University of Georgia

GPU-based Spatial Interaction Force Simulation (Work in Progress)
Chris Truszkowski, University of Scranton
Benjamin Bishop, University of Scranton

Saturday March 29, 2008

Session F  Saturday March 29 • 10:30 AM – 12:15 PM

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<th>Computer Organization/Architecture/Operating Systems</th>
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<td></td>
<td>An Object Discarding Policy with FI Systems for Cooperative Hybrid Caching Architecture</td>
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<td>Jinsuk Baek, Winston-Salem State University</td>
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<td>Paul S. Fisher, Winston-Salem State University</td>
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<td>Yuri Kim, Winston-Salem State University</td>
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<td>Mingyung Kwak, Winston-Salem State University</td>
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<td>Parallel Processing Flow Models on Desktop Hardware</td>
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<td>Robert Geist, Clemson University</td>
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<td>Zachary Jones, Clemson University</td>
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<td>Jay Steele, Clemson University</td>
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<td>Improving Code Compression using Clustered Modalities</td>
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<td>Chris J. Michael, Louisiana State University</td>
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<td>Maciej Brodowicz, Louisiana State University</td>
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<td>Thomas Sterling, Louisiana State University</td>
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<td>Profiler Instrumentation Using Metaprogramming Techniques</td>
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<td>Ritu Arora, University of Alabama at Birmingham</td>
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<td>Yu Sun, University of Alabama at Birmingham</td>
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<td>Zekai Demirezen, University of Alabama at Birmingham</td>
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<td>Jeff Gray, University of Alabama at Birmingham</td>
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Track F2  Computing Education  Room B

Computer Science III – A Required Course on Client-Server Computing
David J. Powell, Elon University
Joel Hollinsworth, Elon University
Shannon Duvall, Elon University

Induction as a Tool for Conceptual Coherence in Computer Science (Student Paper)
Irene Polycarpou, Florida International University

*Education and Design: Using Human-Computer Interaction Case Studies to Learn* (Student Paper)
Gregory Smith, Virginia Tech
Laurian C. Vega, Virginia Tech
D. Scott McCrickard, Virginia Tech

*C-PAL: Cultural-Based Programming for Adult Learners* (Work in Progress)
Wanda Eugene, Auburn University
Juan Gilbert, Auburn University

### Track F3 Computer Networks Room D

*Enabling IPv6 Within a Campus Network*
Homer Carlisle, Auburn University
Bliss Bailey, Auburn University

*DSR and TORA in Fixed and Mobile Wireless Networks*
Suhair Hafez Amer, Auburn University
John A. Hamilton, Jr., Auburn University

*Mobile Agents Based Infrastructure for Web Services Composition*
Mohammed Ketel, University of Baltimore

*Clear Channel Assessment in Wireless Sensor Networks* (Student Paper)
J. Collin Engstrom, Southwest Minnesota State University
Chase Gray, University of South Carolina

### Track F4 Social Networks Room E

*Social Network Analysis for Email Classification*
K. Yelupula, University of Arkansas at Little Rock
Sriniv Ramaswamy, University of Arkansas at Little Rock

*Using an Edge-dual Graph and k-connectivity to Identify Strong Connections in Social Networks*
Li Ding, The University of Alabama
Brandon Dixon, The University of Alabama

*Multiagent-Based Simulation of Societal Networking in a Consumer Marketplace* (Student Paper)
Andrew Smith, Winthrop University

*Using XML to Map Relationships in Hacker Forums* (Student Paper)
Jonathan F. Spencer, UNC Charlotte

### Track F5 Computational Systems Room G

*Optimization of the Multiple Retailer Supply Chain Management Problem*
Caio Soares, Auburn University
Gerry Dozier, North Carolina A&T State University
Emmett Lodree, Auburn University
Jared Phillips, Auburn University
Katie Nobles, Auburn University
Yong won Park, Auburn University

*Grid Computing: Student Research Experiences*
Darren W Greene, Lowe’s Companies, Inc.
Rahman Tashakkori, Appalachian State University
Barry L Kurtz, Appalachian State University

*The Relationship Between the Features of Sparse Matrix and the Matrix Solving Status*
Dianwei Han, University of Kentucky
Shuting Xu, Virginia State University
Jun Zhang, University of Kentucky