

CALL FOR PAPERS

The Society for Industrial and Applied Mathematics (SIAM) Great Lakes Section,
The University of Michigan – Dearborn and The Complex Systems Group at Wayne State University
present:

Complexity and Business Analytics: Theory and Applications

at The University of Michigan-Dearborn
Friday, October 10, 2008, 8:30am – 4:30pm

This symposium will showcase research and applications of complex dynamic systems, business and financial mathematical modeling, data mining and related advanced analytic methods in all areas of application.

Plenary Speakers:

- **K.P. Unnikrishnan, General Motors: “Data Mining Methods for Neuroinformatics”**
- **Michael North, Argonne National Lab: “Case Studies: Agent-Based Modeling in Business and Government”**

Symposium Themes:

- Systems of systems
- Emergent behavior of complex systems
- Multiple agent systems
- Complexity in organizations
- Complexity in business and financial management
- Complexity in manufacturing and work systems
- Complexity in medicine & physical/life sciences
- Marketing and Revenue Management
- Complexity in engineering and applied science
- Spatial / geographic analysis
- Financial and Procurement analytics
- Network, traffic and logistics analysis
- Supply chain analysis
- Data mining methods and applications
- Public policy models and analysis
- Applied research needs and challenges
- Student research in progress

Also available: NetLogo computer workshop for agent-based modeling.

Contributors are welcome to present completed research, work in progress, open problems with mathematical approaches and other applied mathematics and computer science research within the conference themes. Contributed presentations are 25 minutes including Q&A. For poster presentations, boards (30"x40") and stands will be provided.

Please submit title and abstract (and any questions) by email to: d.r.bowen@wayne.edu

Symposium Web Site: <http://www.engin.umd.umich.edu/glsiam/symposium3.htm>

Proposed Presentation and Poster titles and abstracts are due June 13, 2008. Please include full contact and affiliation information and indicate the applicable conference theme and whether a presentation or poster is proposed. Acceptances will be emailed by July 18, 2008.

Please join us!

Conference Planning Committee:

- Academic Co-Chair: David Bowen, Wayne State Univ., Physics
- Industrial Co-Chair: Daniel Reaume, General Motors Corporation
- Michael Cavaretta, Ford Motor Company
- Xiuli Chao, UM-Ann Arbor, Industrial and Operations Engineering
- Ratna Babu Chinnam, Wayne State Univ., Industrial Engineering
- Edward Griffor, Chrysler LLC
- Daniel Grosu, Wayne State Univ., Computer Science
- Henry Heng, Wayne State Univ., Medicine
- Michael Lachance, UM-Dearborn, Mathematics
- Ed Moylan, SIAM

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