Publications and Presentations

**Publications in Peer-Reviewed Journals**


49. S. Jonnalagadda and R. Srinivasan, Principal Components Analysis Based Methodology to Identify Differentially Expressed Genes in Time-course Microarray Data, BMC Bioinformatics, 9, 267 (2008) HIGHLY ACCESSED ARTICLE (4430 accesses, identified by BioMed Central)


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**Chapters in Books**


**Refereed Conference Proceedings**


**Conference Presentations**


152. Y. Zhou, L. Samavedham, and R. Srinivasan, Estimate Particle Size Distribution by Image-Based Sensors: Integrating Multiple Image Segmentations, 7th European Congress of Chemical Engineering, Prague, Czech Republic, Aug 28 – Sep 1, 2010


149. S. Jonnalagadda, B. Balagurunathan, and R. Srinivasan, Comparison of pentose sugar utilization in Saccharomyces cerevisiae and Pichia stipitis using Elementary Flux Modes, Metabolic Engineering VIII: Metabolic Engineering for Green Growth, Jeju Island, Korea, Jun 13-17, 2010

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82. R. Srinivasan and A. Nochur, Process Control and Automation for Agile Manufacturing, Control & Instrumentation Asia 2005 International Conference, Singapore, Nov 30-Dec 1, 2005


80. A. Adhitya, R. Srinivasan, IA Karimi, Extending safety approaches form process plants to supply chain, INFORMS Annual Meeting, San Francisco, CA, Nov 13 - 16, 2005
82. YS Ng and R. Srinivasan, Overcoming False Positives (Type-I Errors) while Monitoring of Transient Operations using Principal Component Analysis, AIChE annual meeting, Cincinnati, OH, Oct 30- Nov 4, 2005.
83. R. Srinivasan and Ng YS, Supervisory Control of Process Transitions: Challenges & Opportunities, AIChE annual meeting, Cincinnati, OH, Oct 30- Nov 4, 2005.


KEYNOTE LECTURE


55. M. Mishra, R. Srinivasan and IA Karimi, A model-based framework for detecting, diagnosing, and rectifying supply chain disruptions, AIChE annual meeting, Austin, TX, Nov 7-12, 2004.

54. YS Ng and R. Srinivasan, Collaborative Decision Support during Process Operations using Heterogeneous Software Agents, AIChE annual meeting, Austin, TX, Nov 7-12, 2004.


52. S. Jonnalagadda and R. Srinivasan, Hybrid Modeling of Gene Regulatory Networks through Clustering, Genome-Wide Location Analysis, and Linear Models, AIChE annual meeting, Austin, TX, Nov 7-12, 2004.

51. YS Ng and R. Srinivasan, Fault diagnosis during process transitions using SOM and clustering approaches, AIChE annual meeting, Austin, TX, Nov 7-12, 2004.

50. A. Adhitya, R. Srinivasan and IA Karimi, A heuristic reactive scheduling strategy for recovering from refinery supply chain disruptions, AIChE annual meeting, Austin, TX, Nov 7-12, 2004.


EDUCATIONAL MATERIAL

1. SimFurnace: Web-based simulator for process control education
2. SafeFurnace: Web-based simulator for process safety education

SEMINARS AND PRESENTATIONS

(a) Academic

38. Recent advances in Image-based Sensors for Industrial Crystallization, ETH Zurich, Switzerland, Jun 11, 2010.
37. Decision Fusion in Distributed Multi Agent Process Supervisory System, Tsinghua University, Beijing, China, May 13, 2010.
25. Risk management in Chemical supply chains, Technological University of Panama, Panama City, Panama, Jun 13, 2007.
7. Process Operations and Decision Support for Agile Manufacturing, National Taiwan University, Jul 17, 2002.

(b) Non-Academic

38. Understanding and Utilizing the Wisdom of Crowds: Distributed Intelligence in Process Monitoring and Supervision, General Electric JF Welch Technology Center, Bangalore, India, Aug 9, 2011.
35. Energy & the Sciences of the Artificial, Emerson Electric CEO’s Innovation Breakthrough Clinic, Singapore, Mar 22, 2011. KEYNOTE LECTURE