

HARISH G. NAIK

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Education

- **University of Illinois at Chicago, Chicago, IL** Fall, 2008
M. S. in Computer Science
- **R. V. College of Engineering, Bangalore, INDIA** June, 2004
B. E. in Computer Science and Engineering

Research Interests

- Parallel Programming Models, High Performance Computing, Operating Systems Design, Scientific Computing

Publications

- P. Balaji, H. Naik and N. Desai, "**Understanding Network Saturation Behavior on Large-Scale Blue Gene/P Systems**" – *The 15th International Conference on Parallel and Distributed Systems (ICPADS'09), Shenzhen, China*
- H. Naik, R. Gupta and P. Beckman, "**Analyzing Checkpointing Trends for Applications on Petascale Systems**" – *Second International Workshop on Parallel Programming Models and Systems Software (P2S2) for High-End Computing in conjunction with International Conference on Parallel Processing (ICPP), 2009*
- K. Yoshii, K. Iskra, P. C. Broekema, H. Naik, and P. Beckman, "**Characterizing the Performance of Big Memory on Blue Gene Linux**" – *In "Proceedings of the 2nd Int. Workshop on Parallel Programming Models and Systems Software for High-End Computing," Vienna, Austria, Sept. 2009.*
- H. Naik, "**Parallelization of Community Identification in Dynamic Social Networks using MPI**" – *M. S. Thesis, University of Illinois at Chicago, 2008.*
- Harish Naik, "**A Neural Network Approach Towards Analysis And Prediction of Behavioral Patterns of Stock Markets**" – *IBM Technitks 2004, National Institute of Technology Karnataka, Surathkal, April 2004 - BEST PAPER*

Invited Talks/Conference Presentations

- Harish Naik, "**Computers in Bioinformatics and Computational Biology**" – *Govt. Arts & Science College, Karwar, India - January 2008*
- Harish Naik, "**Building Opensource Clusters**" – *R. V. College of Engineering, Bangalore, May 2005.*
- Harish Naik, Arjun Jain, "**3D Graphics Rendering using Linux Clusters**" – *Linux/Bangalore, December 2003.*

Research Experience

- **Mathematics & Computer Science Division, Argonne National Laboratory** Lemont, IL
Predoctoral Researcher: November 2008–Current
– ZeptoOS (<http://zeptoos.org>)
- **Laboratory of Advanced Computing, University of Illinois at Chicago** Chicago, IL
Research Assistant: August 2007–May 2008
– Working as a research programmer on the RAY project.

- **Mathematics & Computer Science Division, Argonne National Laboratory** Argonne, IL
Research Aide(Summer Intern): May 2007– August 2007
 - Designing tools for *characterization & validation* of MPI implementations. The effort includes understanding of the pattern of usage of message passing routines by application programmers. The project involves the usage of *experimental Computer Science* techniques for dealing with empirical data and usage of mathematical techniques like *curve-fitting* and *interpolation*.

Professional Experience

- **SAP Labs** Bangalore, INDIA
Development Specialist: December 2004–August, 2006.
 - As a member of the Application Platform - Supply Chain Management group, I was responsible for design, development and maintenance of *Site Logistics - Bill of Operations* component. Responsibilities included development using the ABAP language, travel to Germany for transfer of the required functional knowledge and co-ordinating with design & development teams in Germany and Israel.
- **i2 Technologies** Bangalore, INDIA
Associate Consultant: July, 2004–December, 2004.
 - As a part of the Supplier Relationship Management maintenance team, I was responsible for supporting *i2's Strategic Sourcing* product.

Projects

- ZeptoOS
 - Operating System for PetaScale Systems.

<http://zeptoos.org>