

- Name : Bharat M Deshpande
- Date of Birth : 05/06/1968
- Marital status : Married

Educational Qualification

- M.Sc. in Mathematics (1992) - Mumbai University
- Ph.D. in Mathematics (1998) - IIT Bombay

Title of Thesis : Hypertopologies on Uniform Spaces & Stability in Optimization
Supervisor : Prof. D.V. Pai

Professional Experience

- DAE Post Doctoral Fellow 1998 - 1999 at I.I.T. Bombay
- Lecturer from 1999 - 2001 in Department of Applied Mathematics at Technology faculty of M.S. University Baroda
- Lecturer from Oct.2001 - Feb. 2004 in Department of Computer Science & Information Systems, BITS Pilani, Pilani Campus
- Assistant Professor from March 2004 - June. 2005 in Department of Computer Science & Information Systems, BITS Pilani, Pilani Campus
- Assistant Professor from July 2005 - Feb. 2010 in Department of Computer Science & Information Systems, BITS Pilani, K K Birla, Goa Campus
- Associate Professor from March 2010 till date in Department of Computer Science & Information Systems, BITS Pilani, K K Birla, Goa Campus

Administrative Experience

- Head of the Department, Department of Computer Science & Information Systems from 2006 till date
- Faculty In Charge, Students Activity Center from 2006 to 2011
- Faculty In-Charge of Computer Science Association, BITS Pilani.
- Coach of the team representing BITS Pilani at the ACM Asia ICPC Contest.

Research Interests

- Complexity Theory
- Algorithms
- Data Mining

Ph.D. students

As Supervisor

Completed

- Mr. Nitin Upadhyay
Title of the thesis : Concurrent Modeling, Analysis and Design of Component Based Software System
- Mr. Mangesh Bedekar
Title of the thesis : Making Web Applications Intelligent using Web Data Mining

In Progress

- Mr. Ramprasad Joshi
Title of thesis: Applicability of Theoretical Computer Science to New Practical Computational Techniques and Paradigms

As Co-Supervisor

In Progress

- Ms. Shubhangi K Gawali
Title: Design of High Performance Energy Efficient Scheduling Algorithms for Uniprocessor and MP/MC Hard Real-time Systems
- Mr. Sanjay Joshi (Persistent Systems, Goa)

Master's Thesis

- L Ravi Kumar
Title of Thesis : Grid Computing: Building a Resource Grid
- K Yamini
Title of Thesis : Pattern Matching Algorithms In Bioinformatics
- Akshat Agarwal
Title of Thesis : Parallel Numerical Algorithm

Publications

Journal

- Upadhyay, N., and **Deshpande, B. M.** (2010). SDCS: six-dimensional classification strategy framework for COTSproducts. *International Journal of Data Analysis Techniques and Strategies*, 2(2), pp. 170–180.
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. (2010). Integrated Decision Approach for COTS Selection, *International journal of Decision Sciences, Risks and Management*, 2(3), pp. 165-177.
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. (2010). Concurrent Design Graph Theoretic Approach for Component Based Software System, *International Journal of Product Design*, 1(1), pp. 13-23.
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. (2010). Developing Maintainability Index of a Software Component: A Digraph and Matrix Approach, *ACM SIGSOFT* 35(5), pp. 1-11.
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. (2010). Concurrent Usability Evaluation and Design of Software Component: A Digraph and Matrix Approach, *IEEE/IET Software Research Journal*, pp. 1-13.
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. (2011). Reliability Modeling and Analysis of Component Based Software Systems, *International Journal of Reliability and Safety* (in press).
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. (2011). Towards a Software Component Quality Model, *Springer (LNCS)*, pp. 398-412.
- Mangesh Bedekar, **Bharat Deshpande** (2010): Design and Implementation of a extensible Peer-to-Peer Content Recommendation System, *International Journal on Computer Science and Engineering*, volume 2, issue 4, pp. 1018 – 1023.
- Mangesh Bedekar, **Bharat Deshpande** (2010): Profiling the User – A ringside view, *International Journal of Machine Intelligence*, volume 2, issue 2.
- **B.M. Deshpande** & D.V. Pai: Topologies Related to The Prox Map And The Restricted Center Map, *Numer. Funct. Anal. And Optimiz.*, 16(9&10), 1211-1231 (1995) with D.V. Pai
- **B.M. Deshpande** & D.V. Pai On continuity of The Prox Map and The Restricted Center Map, *Approximation Theory VIII*, Vol. 1, C.K. Chui & L.L. Schumaker (eds.) 451-458 (1995) with D.V. Pai
- **B.M. Deshpande** & D.V. Pai On Hypertopologies and the Young Fenchel Transform, *Numer. Funct. Anal. And Optimiz.*, 21 (7&8), 885-900 (2000) with D.V. Pai

To Appear

- Ramprasad Joshi & **Bharat Deshpande**, Theoretical Study of Scalability; Scalability of Randomized Search Heuristics for Many-objective Problems. To appear in *Memetic Computing*.

Conference/Workshops

- Ramprasad Joshi, **Bharat Deshpande**: Scalability of Population-Based Search Heuristics for Many-Objective Optimization, In: Anna Esparcia-Alcàzar, (Ed.), Applications of Evolutionary Computation, 16th European Conference, EvoApplications 2013, Vienna, Austria, April 3-5, 2013. Proceedings. Springer, Heidelberg. pp. 479-488. 2013.
- Upadhyay, N., **Deshpande, B. M.**, and Agrawal, V. P. CFMEA: Concurrent Failure Mode and Effect Analysis, 2nd International Conference on Reliability, Safety, and Hazard – Risk-Based Technologies and Physics of Failure Methods, December 14-16, 2010, Mumbai pp. 399-405, 2010.
- Mangesh Bedekar, **Bharat M. Deshpande**, Pralav Desai, Vijay Mohan Reddy Borra, On the enhancement provided by preceding and Succeeding Auxiliary Word to Search Engines to Categorize search results, Proceedings of International Conference on Computing Communication and Information Technology Applications,, VLB Janakiammal College of Engineering and Technology Coimbatore, India. January 21-23. 2010
- Mangesh Bedekar, **Bharat M. Deshpande**, Snigdha Gupta, Saral Jain, Mohammad Kazi, Komal Kapoor (2008): Personalization of Web Search Results Based on User Profiling *Proceedings of 1st International Conference on Emerging Trends in Engineering and Technology*, G. H. Rasoni College of Engineering, Nagpur, India. July 16-18, 2008. pp. 1114 - 1119.
- Mangesh Bedekar, **Bharat M. Deshpande**, Ramprasad Joshi (2008): Web Search Personalization by User Profiling, Proceedings of 1st International Conference on Emerging Trends in Engineering and Technology, G. H. Rasoni College of Engineering, Nagpur, India. July 16-18, 2008. pp. 1099 - 1103.
- Delivered a key note lecture on **Set Valued Mappings** at annual convention of Gujarat Ganit Mandal, held at Billimora in October 2000

Honors

- Distinguished Faculty Award at BITS Alumni Global Meet, 2011
- Post Doctoral Fellowship from Department of Atomic Energy
- Secured Third Rank in Mumbai University in M.Sc.

Memberships

- Board of Studies of College of Engineering, Pune
- Vice President of the Goa Chapter of Computer Society of India, 2011
- ACM Professional Member