

Resume

Personal Information

Name : Sourangshu Bhattacharya

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Date of Birth: 26th June 1980.

Sex: Male

Citizenship: India.

Current Address :

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Education

<i>Degree</i>	<i>Institution</i>	<i>Date</i>	<i>Division/Class</i>
PhD, Computer Science	Indian Institute of Science, Bangalore	August 2003 onwards	-
M.Tech., Computer Science	Indian Statistical Institute, Kolkata	August 2001 – July 2003	Distinction
B.Tech., Civil Engg.	Indian Institute of Technology, Roorkee	August 1997 – June 2001	First Class

Publications (Peer Reviewed)

- Mehul Parsana, Sourangshu Bhattacharya, Chiranjib Bhattacharya, K. R. Ramakrishnan. **Kernels on Attributed Pointsets with Applications.** In Proceedings of 21st Annual Conference on Neural Information Processing Systems (NIPS), 2007.
- Sourangshu Bhattacharya, Chiranjib Bhattacharyya and Nagasuma R Chandra. **Structural Alignment based Kernels for Protein Structure Classification.** In Proceedings of 24th International Conference on Machine Learning (ICML), 2007.
- Sourangshu Bhattacharya, Chiranjib Bhattacharyya and Nagasuma R Chandra. **Comparison of protein structures by growing neighborhood alignments.** *BMC Bioinformatics*. 2007 Mar 6;8:77.

- Sourangshu Bhattacharya, Chiranjib Bhattacharyya and Nagasuma R. Chandra. **Projections for fast protein structure retrieval.** *BMC Bioinformatics*. 2006 Dec 18;7 Suppl 5:S5.

M.Tech. Dissertation

Title : Application of Evolutionary Computation to Protein-Ligand Docking Problem.

Center : Machine Intelligence Unit, Indian Statistical Institute, Kolkata.

Awards and Prizes

- *Best student entry* in 2 out of the 3 tasks in KDD Cup 2006.
http://www.cs.unm.edu/kdd_cup_2006

Technical Reports, Invited/Nominated Papers, Posters, Talks

- Sourangshu Bhattacharya, Chiranjib Bhattacharyya, Nagasuma Chandra. **Matchprot: Projections for Fast Protein Structure Retrieval.** Poster in *TechVista*. Jan 2007, Microsoft Research India, Bangalore, India.
- Sourangshu Bhattacharya, Chiranjib Bhattacharyya, Nagasuma Chandra. **Projections for Fast Protein Structure Retrieval.** *6th Annual Inter Research Institute Student Seminar in Computer Science (IRISS)*. 2007. International Institute of Information Technology, Hyderabad, India.
- Sourangshu Bhattacharya, Chiranjib Bhattacharyya, Nagasuma Chandra. **Matchprot: Projections for Fast Protein Structure Retrieval.** Poster in *5th International Conference on Bioinformatics (InCoB)*. Dec 2006. New Delhi, India.
- Sourangshu Bhattacharya. **A talk on Protein Structure Comparison.** *Showcase 2005*. Dept. of Computer Science and Automation, Indian Institute of Science, Bangalore, India.
- Sourangshu Bhattacharya. **Protein Structure Comparison and Neighborhood Preserving Representation.** *Doctoral Symposium*, Dec 2004, Amrita Vishwa Vidyapeetham, Coimbatore, India. (*The paper also got the best presentation award*)
- Sourangshu Bhattacharya, Chiranjib Bhattacharyya. **Using Neighborhood Preserving Projections for Comparing Protein Structures.** *Technical report IISc-CSA-TR-2004-14*, Nov 2004, <http://archive.csa.iisc.ernet.in/TR/2004/14/>.

Teaching Experience

- Teaching Assistant for course **Linear and Nonlinear Optimization** (2005) (<http://www.csa.iisc.ernet.in/academics/programs/soi2000/node251.html>).
- Taken a series of lectures on Graphical Models and Inference for Topics in Machine Learning course at IISc (2007).

Professional Services

Reviewer for:

- IEEE/ACM Transactions on Computational Biology and Bioinformatics.

- IEEE International Conference on Data Mining (ICDM) 2007.
- ACM International Conference on Web Search and Data Mining (WSDM) 2008.

Research Interests

- Computational Biology.
- Machine Learning.
- Algorithms.

For more information please see <http://people.csa.iisc.ernet.in/sourangshu/research/index.html>.

Skills

Languages: C, Java, Matlab.

Packages / Libraries: MPI, LAPACK, GNU GSL (General Scientific Library), GLPK (GNU linear programming kit), and various bioinformatics softwares.

References

Available upon request.

Hobbies

Vedic Astrology, Dramatics, Reading, Movies, Music, etc.