

# Curriculum Vitae

(short)

## Surender Baswana

Professor

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### Research Interest

Design and analysis of computer algorithms, especially Graph algorithms, Dynamic algorithms, Fault-Tolerant structures, Randomized algorithms.

### Education

Degree	Institute	Department	Year
Bachelor of Technology	Indian Institute of Technology Delhi	Comp. Sc. and Engg.	1997
Master of Technology	Indian Institute of Technology Delhi	Comp. Sc. and Engg.	1999
PhD	Indian Institute of Technology Delhi	Comp. Sc. and Engg.	2005

**Important Note:** PhD thesis was submitted in October 2003, but the thesis defence could be held in July 2005 due to delay in the reports of the examiners. So the PhD degree could be awarded only in August 2005.

### Employment

Professor (August 2016 - onwards)

Deptt. of Comp. Sc. & Engg., I.I.T. Kanpur.

Associate Professor (December 2010 - July 2016)

Deptt. of Comp. Sc. & Engg., I.I.T. Kanpur.

Assistant Professor (July 2006-November 2010)

Deptt. of Comp. Sc. & Engg., I.I.T. Kanpur.

Postdoctoral Researcher

(October 2003- June 2006)

Max. Planck Institute of Computer Science  
Algorithms & Complexity group,  
Saarbruecken, Germany.

### Supervision of students

Number of <b>PhD</b> thesis supervised	3 (One thesis was co-supervised with Prof. Sandeep Sen )
Number of <b>Masters</b> thesis supervised	19

### Sponsored Projects

1. Title of the project: Dynamic Graph Algorithms

Duration: October 2014-September 2017

Sponsors: University Grants Commission (UGC) of India and Israel Science Foundation

Funding Amount: INR 38,40,000 (Around 60,000 US Dollar).

## Research Publications

Journals	Publication year
ACM Transactions on Algorithms	2006, 2010, 2012, 2020, 2023
SIAM Journal of Computing	2010, 2018 (2), 2019
Algorithmica	2002, 2013, 2016, 2019, 2022(2)
Random Structures and Algorithms	2007
INFORMS Journal of Applied Analytics	2019
Journal of Algorithms	2007
Theoretical Computer Science	2009
Information Processing Letters	2008

There are a total 33 publications in peer reviewed conferences. Find below the 21 publications appearing in Tier 1 (or Premium) conferences.

Peer Reviewed Conference	Publication year
ACM-SIAM Symposium on Discrete Algorithms (SODA)	2003, 2004, 2005 2008, 2012, 2016 2018(2), 2022
International Colloquium on Automata Languages and Programming (ICALP)	2003, 2008, 2014 2017, 2022, 2024
ACM Symposium on Theory of Computing (STOC)	2002, 2016
IEEE Symposium on Foundation of Computer Science (FOCS)	2006, 2011
Computer Aided Verification (CAV)	2008
ACM Conference on Economics and Computation (EC)	2019

## Professional Services

- *Programme Committee member: ESA 2022, FSTTCS 2012, ICALP 2005*

## Awards and Achievements

### Research:

- The Finalist for the Wagner Prize for Excellence in Operations Research Practice in 2018 for the technical paper “Centralized Admissions for Engineering Colleges in India” that appeared in a special issue of the journal *Interfaces* in 2019.
- Recipient of the Alexander von Humboldt Fellowship for Experience Researchers in 2018.
- Received certificate for exceptional contribution for the development of the software for the joint seat allocation in central government funded technical institutes of India in 2015.
- Young Engineer Award from Indian National Academy of Engineering for the year 2009.
- Research I Fellowship for years 2007-2010 by Research I Foundation, Department of Computer Science and Engineering, IIT Kanpur.
- Outstanding Ph.D. Dissertation Award by IBM India Research Lab in 2005.

### Teaching :

- *IIT Kanpur Distinguished Teacher Award* for the year 2017.
- *Gopal Das Bhandari Memorial Distinguished Teacher award* by the graduating batch of the year 2010 across all disciplines in IIT Kanpur.
- *Best Faculty Award* by the graduating batches of the Department of Comp. Sc. & Engg., IIT Kanpur for the years 2010, 2011, 2012, 2013, 2015, 2017, 2018, and 2024.