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|              Curriculum Vitae                   |
|                  (short)                        |
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**Surender Baswana**

Professor
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Kanpur - 208016, U.P., INDIA.
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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 **PhD** thesis supervised | 4  (One thesis was co-supervised with Prof. Sandeep Sen ) |
| Number of **Masters** 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 Colloquim 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: SODA 2026, 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.