

Swaroop Joshi

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Employment

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS) PILANI, KK BIRLA GOA CAMPUS · GOA INDIA

- Assistant Professor, Computer Science and Information Systems 2021–present

UNIVERSITY OF UTAH · SALT LAKE CITY UT USA

- Assistant Professor – Lecturer, School of Computing 2019–2020

THE OHIO STATE UNIVERSITY · COLUMBUS OH USA

- Senior Lecturer, Computer Science and Engineering 2017–2019

Education

- *The Ohio State University*, Ph.D. in Computer Science & Engineering 2017
- *The Ohio State University*, M.S. in Computer Science & Engineering 2016
- *Indian Institute of Technology Bombay*, M.Tech. in Computer Science & Engineering 2010
- *National Institute of Technology Karnataka, Surathkal*, B.E. in Computer Engineering 2005

Recent Publications

1. P. D. Parthasarathy and **S. Joshi**. 2024. *Teaching Digital Accessibility in Computing Education: Views of Educators in India*. In ACM Conference on International Computing Education Research V.1 (ICER'24 Vol. 1), August 13–15, 2024, Melbourne, VIC, Australia. (**Core A**; Accepted.)
2. P. D. Parthasarathy, I. Kapoor, **S. Joshi**, S. Thomas. 2024. *Influence of Personality Traits on Plagiarism Through Collusion in Programming Assignments*. In ACM Conference on International Computing Education Research V.1 (ICER '24 Vol. 1), August 13–15, 2024, Melbourne, VIC, Australia. ACM, New York, NY, USA. (**Core A**; Accepted.)
3. P. D. Parthasarathy and **S. Joshi**. 2024. *Exploring the Need of Accessibility Education in the Software Industry: Insights from a Survey of Software Professionals in India*. In Proceedings of the 46th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET'24). April 14–20, 2024, Lisbon, Portugal. (**Core A*** parallel track)
4. P. D. Parthasarathy and **S. Joshi**. 2024. *Teaching Digital Accessibility to Industry Professionals using the Community of Practice framework: An Experience Report*. In Proceedings of the 46th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET '24). April 17–20, 2024, Lisbon, Portugal. (**Core A*** parallel track)
5. D. J. Bouvier, E. Lovellette, E. A. Santos, B. A. Becker, T. Crick, V. G. Dasigi, J. Forden, O. Glebova, **S. Joshi**, S. Kurkovsky, and S. Russell. 2023. *Teaching Students To Use Programming Error Messages*. In Proceedings of the ACM Conference on Global Computing Education Vol 2 (CompEd 2023). Dec. 7–9, 2023, Hyderabad, India.
6. J. S. Bhatia, Parthasarathy P D, S. Tiwari, D. Nagpal, and **S. Joshi**. 2023. *Integrating Accessibility in a Mobile App Development Course*. In Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 1 (SIGCSE 2023), March 15–18, 2023, Toronto, ON, Canada. (**Core A**)

Select Sponsored Projects

TANGIBLE BLOCKS FOR TEACHING COMPUTATIONAL THINKING TO CHILDREN WITH DISABILITIES

- Role: PI (Other PI: Prof. Basavadatta Mitra, Humanities and Social Sci., BITS Goa)
- Agency: GCIR BITS Pilani (Cross Disciplinary Research Funding) | Budget: INR 2,000,000

USING AI IN ASUS EDUCATION

- Role: PI
- Agency: National Commission for Indian System of Medicine | Budget: INR 621,500

ACCESSIBLE SCIENCE LABS FOR VISUALLY IMPAIRED SCHOOL CHILDREN

- Role: PI
- Agency: Vision Empower Trust, Bangalore | Budget: INR 200,000

HUMAN-CENTERED FUTURE COMPUTING (GOA/ACG/2021-2022/Nov/05)

- Role: PI (Other PIs: Sougata Sen and Sravan Danda, CSIS, BITS Goa)
- Program: Additional Competitive Research Grant
- Agency: Sponsored Research and Consultancy Division, BITS Pilani | Budget: INR 2,975,000

Service

JOURNAL EDITORIAL BOARD

- Associate Editor, Journal of Engineering Education Transformations, 2018–2022

JOURNAL REVIEWER

- IEEE Transactions on Education
- Frontiers in Computer Science
- Journal of Engineering Education Transformations
- The ASEE Computers in Education (CoED) Journal
- SAIEE Africa Research Journal

SENIOR PROGRAM COMMITTEE MEMBER

- ACM SIGCSE Technical Symposium: 2024, 2025
- ACM CompEd: 2023
- ACM India Compute: 2023

GOVERNMENT BODIES

- *Member, Governing Council*, Goa State Research Foundation, June 2023–present

Professional Memberships

- Institute of Electrical and Electronics Engineers (IEEE)
 - Education Society
 - Computer Society
- Association for Computing Machinery (ACM)
 - Special Interest Group on Computer Science Education (SIGCSE)
 - Special Interest Group on Accessible Computing (SIGACCESS)
 - Special Interest Group on Software Engineering (SIGSOFT)