

# 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

## Select 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**)
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**)
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

### SERIOUS GAMES FOR TEACHING ACCESSIBILITY

- Role: PI
- Agency: ACM SIGCSE Special Projects Grant | Budget: USD 4,960 (approx. INR 4,31,284)

### INDIAN SIGN LANGUAGE COLLECTION

- Role: Co-PI (PI: Prof. Sougata Sen, Co-PIs: Profs. Surjya Ghosh and Sravan Danda, all CSIS, BITS Goa; External PI: Prof. Thad Stanner, Georgia Tech University, USA)
- Agency: Google Inc. | Budget: USD 30,000 (approx. INR 24,00,000)

### 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 20,00,000

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

- Role: PI (Other PIs: Sougata Sen and Sravan Danda, CSIS, BITS Goa)
- Agency: SRCD BITS Pilani (Additional Competitive Research Grant) | Budget: INR 29,75,000

## Service

### JOURNAL EDITORIAL BOARD

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

### JOURNAL REVIEWER (SELECT LIST)

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

### CONFERENCE LEADERSHIP

- ACM India Compute 2025: Co-Program Chair

### 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*

### BITS PILANI

- Faculty In-Charge, Computer Center Unit (FIC-CCU): Jan. 2025–Dec. 2026

## Professional Memberships

- Institute of Electrical and Electronics Engineers (IEEE): Education Society, Computer Society
- Association for Computing Machinery (ACM): SIGCSE, SIGACCESS, SIGSOFT