

Swaroop Joshi

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Employment

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS) PILANI, KK BIRLA GOA CAMPUS · GOA INDIA
Computer Science and Information Systems

- Associate Professor Jul 2026–present
- Assistant Professor Feb 2021–Jun 2026

UNIVERSITY OF UTAH · SALT LAKE CITY UT USA

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

THE OHIO STATE UNIVERSITY · COLUMBUS OH USA

- Senior Lecturer, Computer Science and Engineering Jan 2017–Jul 2019

Education

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

Select Publications

(30+ peer reviewed publications | h-index: 8)

- P. D. Parthasarathy and **S. Joshi**. 2026. *Accessquest: A Game-Based Approach to Digital Accessibility Education*. ACM Trans. Comput. Educ. 26, 4, Article 59 (December 2025), 39 pages. | **SJR: 0.784, IF: 4.787, Quartile: Q1**
- P D Parthasarathy and **S. Joshi**. 2026. *Accessibility Education for Software Engineers: Evaluating the Impact of Game-Based Learning*. ACM Trans. Comput. Educ. 26, 2, Article 25 (June 2026), 47 pages. | **SJR: 0.784, IF: 4.787, Quartile: Q1**
- PD Parthasarathy, Rachel F. Adler, Devorah Kletenik, **S. Joshi**, and Anshu M Mittal. 2025. *Skill, Will, or Both? Understanding Digital Inaccessibility from Accessibility Professionals' Viewpoint*. In Proceedings of the Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '25). | **Core A***
- 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**
- 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
- 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

Select Sponsored Projects

(Total Funding: INR 1.68 Cr.)

GAMESIGNAI: USING AI TO HELP DEAF CHILDREN ACQUIRE LANGUAGE SKILLS

- 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: Department of Science and Technology (DST), GoI (DST-NSF Joint Call)
- Budget: INR 88,25,811
- Duration: June 2025–May 2027

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 60,000 (Approx. INR 50 L)

Software

- Games for Learning Digital Accessibility <https://www.learndigitalaccessibility.com/>

Awards and Honors

- Teaching Excellence Award, BITS Pilani, KK Birla Goa Campus, Sep 2024
- Lecturer Teaching Development Grant, University Center for Advancement in Teaching, The Ohio State University, Spring 2017

Service

JOURNAL EDITORIAL BOARD

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

JOURNAL REVIEWER (SELECT LIST)

- ACM Transactions on Computing Education
- International Journal of Human–Computer Interaction
- IEEE Transactions on Learning Technologies
- IEEE Transactions on Education
- Frontiers in Computer Science

SENIOR PROGRAM COMMITTEE MEMBER

- ACM SIGCSE Technical Symposium: 2024, 2025, 2027
- ACM CompEd: 2023
- ACM India Compute: 2023

GOVERNMENT BODIES

- *Member, Governing Council, Goa State Research Foundation, Jun 2023–Jun 2026*

BITS PILANI

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