Swaroop Joshi

Office D-161 · BITS Pilani KK Birla Goa Campus · Zuarinagar Goa 403726 · India
✉ swaroopj@goa.bits-pilani.ac.in   ☎ +91 832 2580-864   🌐 swaroopjoshi.in

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

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. ACM, New York, NY, USA, 7 pages. (*Accepted*; preprint: https://arxiv.org/abs/2210.06132.)

D. Nagpal, J. S. Bhatia, D. Goel, Parthasarathy P D, S. Tiwari, and **S. Joshi**. *Inclusive Thinking Questionnaire: Preliminary Results.* In: Proceedings of the 53rd ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2022), Mar. 2022, Providence, RI, USA.

S. Joshi. *Teaching Accessibility in India: A Work in Progress.* In: Proceedings of the 17th ACM Conference on International Computing Education Research (ICER'21), Virtual Event, USA, 2021.

N. Soundarajan and **S. Joshi**. *Innovative Approach to Online Argumentation and Models for Structuring the Arguments.* In: 2018 IEEE Frontiers in Education Conference (FIE'18). San Jose, USA, 2018.

S. Joshi and N. Soundarajan. *Using Anonymity and Rounds-Based Structure for Effective Online Discussions in STEM Courses.* In: 124th ASEE Annual Conference & Exposition Proceedings. American Society for Engineering Education (ASEE'17), 2017.

S. Joshi and N. Soundarajan. *Enabling Deep Conceptual Learning in Computing Courses through Conflict-based Collaborative Learning.* In: 2016 IEEE Frontiers in Education Conference (FIE'16). Erie, USA, 2016.

N. Soundarajan, **S. Joshi**, and R. Ramnath. *Collaborative and Cooperative-Learning in Software Engineering Courses.* In: 2015 IEEE/ACM 37th IEEE International Conference on Software Engineering (ICSE'15). Institute of Electrical & Electronics Engineers, Italy, 2015.

Awards and Honors

HUMAN-CENTERED FUTURE COMPUTING, INR 2,975,000, 2021–23

> Sponsored Research and Consultancy Division, BITS Pilani (No. `GOA/ACG/2021-2022/Nov/05`)

A GIT AND DOCKER BASED TOOLCHAIN FOR INTRODUCTORY PROGRAMMING COURSES, INR 145,000, 2021–22

> Teaching Learning Center, BITS Pilani

SUGAMYATA: ACCESSIBILITY IN COMPUTING EDUCATION, INR 200,000, 2021–23

> Research Initiation Grant, BITS Pilani (No. `BPGC/RIG/2020-21/04-2021/02`)

LECTURER TEACHING DEVELOPMENT GRANT, SPRING 2017

> University Center for Advancement in Teaching, The Ohio State University

Select Invited Talks

CPS IN COMPUTING EDUCATION: CURRENT TRENDS, 2020

> Current Trends in Cyber-Physical Systems (CTiCPS) Woskshop, Online, Oct. 2020

Service to Profession

ASSOCIATE EDITOR

> Journal of Engineering Education Transformations, 2018–2022

JOURNAL REVIEWER

> Frontiers in Computer Science
> Journal of Engineering Education Transformations
> The ASEE Computers in Education (CoED) Journal
> SAIEE Africa Research Journal

CONFERENCE PAPER OR POSTER REVIEWER

> ACM SIGCSE Technical Symposium, 2023, 2022, 2021, 2019, 2018
> Research in Engineering Education Symposium (REES), 2021
> ASEE Annual Conference & Exposition, 2021, 2019, 2018, 2017, 2016
> IEEE Frontiers in Education (FIE), 2018, 2017, 2016
> IEEE Teaching, Assessment and Learning for Engineering (TALE), 2018

Teaching Areas

> Mobile App Development
> Compiler Construction and Optimization
> Programming Languages
> CS1/CS2

Professional Memberships

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