

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

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.

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

ACCESSIBLE SCIENCE LABS FOR VISUALLY IMPAIRED SCHOOL CHILDREN, INR 2,00,000, APR-NOV 2023
Vision Empower Trust

HUMAN-CENTERED FUTURE COMPUTING, INR 2,975,000, 2021-23
Sponsored Research and Consultancy Division, BITS Pilani (No. G0A/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

“Integrating Accessibility Topics in Computing Education” at IDP Education Technology @ IIT
Bombay, Mar. 2023

“CPS in Computing Education: Current Trends” at 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
The ASEE Computers in Education (CoED) Journal
SAIEE Africa Research Journal

CONFERENCE PROGRAM COMMITTEE

(Senior PC Member) ACM CompEd: 2023
(Senior PC Member) ACM India Compute: 2023
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