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. `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

"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
Journal of Engineering Education Transformations
The ASEE Computers in Education (CoED) Journal
SAIEE Africa Research Journal

CONFERENCE PROGRAM COMMITTEE

ACM CompEd 2023
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