ASEE AMERICAN SOCIETY FOR ENGINEERING EDUCATION

ASEE Annual Conference 2024
Software Engineering Division
Call for Papers

The **SOFTWARE ENGINEERING DIVISION (SWDIV)** extends a warm invitation for the submission of abstracts to contribute to papers, workshops, and special sessions at the esteemed 2024 American Society for Engineering Education (ASEE) annual conference. This prestigious event is slated to take place in the vibrant city of Portland, Oregon, from June 23 to 26, 2024. Comprising a community of dedicated researchers and practitioners, the SWDIV collectively nurtures an interest in a diverse range of subjects within the domain of software engineering. **Papers accepted within the purview of the SWDIV division are granted automatic eligibility for the distinguished SWDIV Best Paper Award**. Subsequently, the pinnacle of achievement for this award is the opportunity to vie for the coveted ASEE Annual Conference Best Paper accolade, standing in competition with the finest works from various divisions.

The Software Engineering Division, with an inclusive outlook, encourages contributions from all disciplines, fostering a collaborative exchange of ideas at the 2024 ASEE Annual Conference. The SWDIV Division also extends its embrace to research articles that report on ongoing endeavors, positioned under the "Work in Progress (WIP)" designation, indicated in the title. Researchers also have the avenue to present their findings through the Poster category. We actively encourage submissions from authors whose affiliations do not directly lie in software engineering and computing. Such submissions, describing educational methodologies for teaching software development within their respective fields, are immensely valued. Authors are invited to submit abstracts covering a wide spectrum of subjects, spanning software engineering, computing education, and research. The potential topics encompass, but are by no means limited to the following:

Software Engineering Robustness:
- Crafting seamless processes and tools, with a particular focus on system security, privacy, and the robustness of software systems.
- Crafting software systems in which data science, artificial intelligence, and allied technologies seamlessly converge and play pivotal roles.
- Tackling the challenges posed by engineering large-scale software-intensive systems, such as smart cities and smart grids.
- Unleashing the potential of embedded software development.

Pedagogical Innovation:
- Cultivating enriched pedagogical tools and practices across the spectrum of education, spanning K-12, undergraduate, graduate, and professionals in the field.
- Pioneering innovative methodologies for teaching software engineering and its allied computing courses.

Interdisciplinary Initiatives and Collaboration:
- Weaving interdisciplinary initiatives and courses that prominently feature the design of software subsystems.
- Nurturing synergies with computer science and computer engineering programs to enrich cross-disciplinary collaboration.

Curriculum Development and Educational Material Enhancement:
- Championing the evolution of software engineering and computing curricula, encompassing development, evaluation, and accreditation strategies.
- Creating dynamic course materials that bolster software development education.

Diversity, Equity, and Inclusion:
- Elevating diversity, equity, inclusion, and retention within software engineering and computing programs to foster a more representative and inclusive community.

Additional Topics:
- Enriching capstone experiences and undergraduate research opportunities within the realm of software engineering and computing.
- Exploring the realm of wireless sensor networks and the burgeoning landscape of the Internet of Things (IoT).
- Pioneering breakthroughs in computational intelligence.

Abstracts must be submitted through the ASEE's submission system by November 1st, 2023. Each abstract should be approximately 500 words. Authors are encouraged to read the Author's Kit available on the conference website for additional information about submission procedures.

SWDIV also seeks proposals for workshops and special sessions related to software engineering and computing for the annual conference. These workshops and sessions should be of interest to engineering educators and are intended to be highly interactive. Special sessions can take the form of a discussion panel or a group of papers on a topic of significance. Please submit proposals to the program chair.

Please contact any of the following for questions and clarifications

2024 SWE Division Chair:

Afsaneh Minaie, Ph.D.
Professor of Computer Engineering
Department of Engineering,
Utah Valley University
800 W. University Parkway
Orem, UT, 84058
Phone: 801-863-6393
Email: minaieaf@uvu.edu

2024 SWE Program Chair:

Mudasser F. Wyne, Ph.D.
Professor of Computer Science,
School of Technology and Engineering,
National University,
9388 Lightwave Avenue,
San Diego, CA-92123
Phone: (619) 430 3496,
Email: mwyne@nu.edu