ACM Sigmetrics 2025 Conference at Stony Brook University

Anshul Gandhi (Computer Science) and Zhenhua Liu (Applied Mathematics & Statistics)

Proposal Overview: Significance and context of the conference

Stony Brook University (SBU) and the PIs, Anshul Gandhi and Zhenhua Liu, were chosen after a competitive round to host and organize (as General Chairs) the ACM Sigmetrics 2025 conference. The conference will take place in the Wang Center from June 9–13, 2025. The conference website is already up at `https://sigmetrics.org/sigmetrics2025`. This is an ***established and reputed top-tier conference*** in the broad area of performance modeling and evaluation, and will benefit (at least) SBU researchers and students in ***Computer Science, Electrical and Computer Engineering, Biomedical Informatics, Applied Mathematics and Statistics, Economics, Mathematics, and the College of Business***. This is an excellent opportunity and honor to host the conference at SBU and to highlight the strength of our faculty and students to a broader audience via participation and presentations. We believe this is the first such top-tier conference, at least in Computer Science and related areas, to be held at SBU in the past several years.

Context: ACM (Association for Computing Machinery, `www.acm.org`) is a non-profit professional group centered around computing and informatics, and is the world's largest scientific and educational computing society. Under ACM, Sigmetrics is a top-tier conference, and the flagship conference for the ACM Special Interest Group (SIG) for the computer performance evaluation community (see `sigmetrics.org` for details). The Sigmetrics conference is hosted yearly by leading Universities and research organizations around the world, such as Urbana-Champaign (hosted by University of Illinois, Urbana-Champaign), Austin (hosted by The University of Texas at Austin), Pittsburgh (hosted by Carnegie Mellon University), London (hosted by Imperial College London), San Jose (hosted by Google), and NYC (hosted by Columbia University), to name a few. As such, this is a significant opportunity for us to host a top-tier conference on campus, and will allow us to shine a spotlight both on SBU itself and on our faculty and students. We will let the Department Chairs' letters of endorsement elaborate further about the esteem of the conference.

Target Audience and Attendance: The conference broadly relates to areas of computing and informatics. The expected audience is faculty, postdocs, PhDs, Masters, and undergraduates, and industry researchers, from all around the world, interested in topics relating to computing and informatics in general, and performance evaluation of computing systems, in particular. In the past, the conference has been attended at various venues by SBU faculty and students from CS, AMS, COB, and ECE. Prior versions of the conference usually had an attendance of about 150–200 participants.

Potential Speakers: For 2025, the following keynote speakers and panelists (all eminent leaders in computing) are being considered: Carole-Jean Wu (Director of AI Research at Meta), Animashree Anandkumar (Bren Professor of Computing at Caltech), Prashant Shenoy (Sigmetrics veteran and Distinguished Professor at University of Massachusetts, Amherst), Nick Feamster (Neubauer Professor at the University of Chicago), and Ricardo Bianchini (Corporate Vice President, Microsoft Azure). The previous versions of Sigmetrics have had distinguished speakers such as Margaret Martonosi (NSF Assistant Director for CISE), Don Towsley (Distinguished Professor at the University of Massachusetts, Amherst), Sanjeev Arora (Charles C. Fitzmorris Professor of Computer Science at Princeton University), Hsiao-Wuen Hon (Managing Director of Microsoft Research Asia), Jon Kleinberg (Tisch University Professor at Cornell University), and Ion Stoica (Professor at University of California at Berkeley and Executive Chairman of Databricks).

PI Qualifications: PIs Gandhi and Liu are mid-career faculty (Associate Professors) in CEAS. Both are actively involved in publishing and organizing at Sigmetrics, having served as Technical Program Co-Chair, Student Activities Chair, Workshops Chair, Publications Chair, etc. PI Gandhi also has experience organizing conferences, having organized a conference last year (IEEE MASCOTS, `mascots23.iitis.pl`) at the Wang Center which was attended by about 50 participants. Both have also been recognized formally by Sigmetrics as recipients of the ***Sigmetrics Rising Star Research Award*** (Gandhi in 2019 and Liu in 2021).