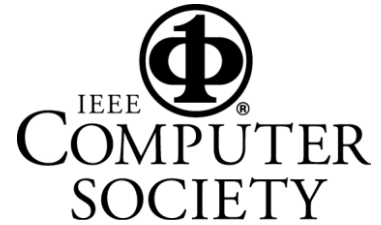


PRINCETON ACM / IEEE-CS CHAPTERS
FEBRUARY 2025 JOINT MEETING



Follow the Beat: Analyzing and Generating Conducting Gestures Using Computers

Musical conducting is a unique blend of musical performance and communication. Conductors are the only musicians who can freely move their hands to create sound, without having their gestures constrained by a rigid instrument, as their instrument is the entire orchestra. The act of conducting can also be seen as communication, as the conductor is using gestures to convey information to the other musicians.

While gesture recognition is a widely researched topic in human-computer interaction, conducting hasn't been studied too extensively. In this talk I will present some of my work on analyzing, generating, and recognizing conducting gestures, highlighting both methods and applications.

Dr. Andrea Salgian is Professor and Chair of the Department of Computer Science at The College of New Jersey, where she teaches courses in introductory computer science, discrete structures, computer graphics, and human-computer interaction. Her research focuses on computer vision and vision-based human-computer interaction. She has mentored various undergraduate student research projects in these areas that resulted in numerous publications. She holds a BS in Computer Science from the Babeş-Bolyai University in Cluj, Romania, and a PhD in Computer Science from the University of Rochester.

NOTE: NEW LOCATION. This meeting will be at **The College of New Jersey – STEM Building, Room 102**. The Princeton ACM meetings will return to the Princeton Computer Science Building in March.

Date: Thursday, February 20, 2025, 8:00pm EDT
Place: **HYBRID MEETING** (both in-person and online)
In Person: The College of New Jersey - STEM Building Room 102
Metzger Rd., Ewing NJ
(enter TCNJ from NJ 31, turn left, it is the fourth building on the right)
(park in the Forcina Garage – Lots 17 and 18)
How to register for the online meeting:

- Send email to PrincetonACM@gmail.com
- OR Register on [Meetup.com](https://www.meetup.com/IEEE-Princeton-Central-Jersey-Section)
([http://meetup.com/IEEE-Princeton-Central-Jersey-Section](https://www.meetup.com/IEEE-Princeton-Central-Jersey-Section))

Information: Dennis Mancl (908) 285-1066
On-line info: <http://PrincetonACM.acm.org>

All Princeton ACM / IEEE Computer Society meetings are open to the public. Students and their parents are welcome. There is no admission charge, and refreshments are served.

A pre-meeting dinner is held at 5:45 p.m. at Applebee's (3330 US 1, Lawrenceville, near Quakerbridge Mall). Please send email to princetonacm@gmail.com in advance if you plan to attend the dinner.

