

IEEE Atlanta AP/MTT Joint Chapter October AP-S Distinguished Lecture with Prof. Ahmad Hoorfar

Date: October 17, 2025

Venue: Klaus Advanced Computing Building (Georgia Institute of Technology – Main Campus)

IEEE Event Page: <https://events.vtools.ieee.org/m/498509>

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Overview

On October 17, 2025, in Atlanta, Georgia, USA, Prof. Ahmad Hoorfar gave a distinguished lecture to the IEEE Atlanta section’s AP/MTT joint chapter. His talk was titled: *Seeing Through Walls: An Electromagnetic Perspective*. This talk discussed the history and advances in technology for through-the wall radar imaging (TWRI). Prof. Hoorfar demonstrated the methods for wall characterization through traditional electromagnetic principles. Then, he discussed efficient imaging techniques to aid identification of targets within and/or behind walls. He brought to the attention the need for wideband and electrically small antennas for TWRI systems. (The full talk abstract can be read on the linked IEEE event page.)

This distinguished lecture was organized by the officers of IEEE Atlanta AP/MTT Joint Chapter, and it was sponsored by the IEEE AP Society Distinguished Lecturer Program.

Attendance

There were 56 people in attendance with 53 people responding to a survey. From the survey results, the following attendance demographics are shown in Table 1 and Table 2 below.

Table 1. Profession Breakdown

Field	Number	Percentage (rounded whole)
Industry (Professional)	1/53	2%
Academia (Professional)	3/53	6%
Student	49/53	92%

Table 2. IEEE Membership Breakdown

Membership Affiliation	Number	Percentage (rounded whole)
IEEE (general)	10/53	19%
IEEE AP-S or MTT-S	8/53	15%
None	35/53	66%

For this DL talk, majority of the attendees were students, with many of them not being existing IEEE members. The high percentage of students attending is due to the location of the talk occurring at Georgia Tech’s main campus. This talk provided good exposure to students about the IEEE organization and AP-S, particularly.

Highlights and Closing Statement

Overall, this event successfully attracted a good number of students to attend. Prof. Hoorfar delved into his years of experience researching TWRI systems to explain the origins of these systems and what is needed in the future to improve these systems’ capabilities. His talk was well received by the attendees and generated curiosity about the inner-workings and potential areas of exploration for TWRI systems.

In the future, the IEEE Atlanta AP/MTT joint chapter hopes to continue hosting AP-S distinguished lecturers and have these events be open to the public to attract new members and encourage more engagement with the AP/MTT joint chapter.

Photos



Figure 1. Prof. Ahmad Hoofar beginning his talk with an introduction of himself and his talk subject.



Figure 2. Prof. Ahmad Hoorfar speaking to the general in-person audience at Georgia Tech's main campus.

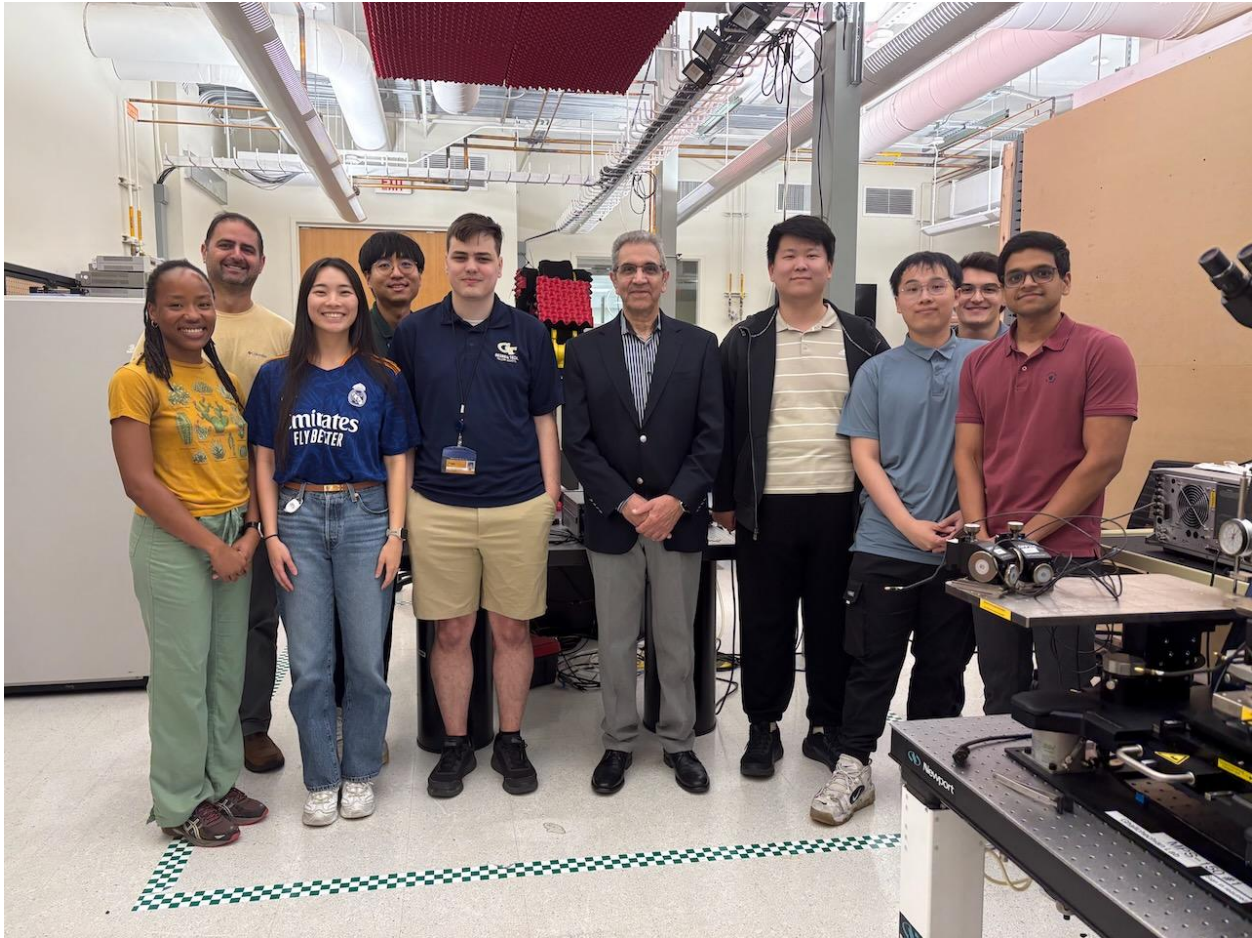


Figure 3. Prof. Ahmad Hoorfar visiting and touring Prof. Nima Ghalichechian's mmWave Antennas and Arrays Lab at Georgia Tech.