

Distinguished Lecturer Levent Sevgi Tours USA

IEEE Antennas and Propagation Society (APS) Fellow member, 2020 – 2023 term Distinguished Lecturer (DL), Chair of DL Committee, **Dr. Levent Sevgi** was in a 1Month USA tour (Feb 15 – Mar 10, 2024).

First, he attended Winter AdCom meeting of the IEEE AP-S in Orlando (Feb 16-19, 2024). Here is the link of a 3min video: <https://lnkd.in/ewX2wwM5>. Then, he visited Boston University (BU, Feb 21-23), Virginia Commonwealth University (VCU, Feb 26-28), and Chicago IEEE EMC Chapter, Oakton College (Mar 5-7) within the IEEE AP-S DL Program. His lecture entitled “*From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/Training Next Generations*” was very well received. Here is the link for 2min video: <https://lnkd.in/eYPbazUW>.

The hosts in BU, VCU, and Chicago EMC-S Chapter were, **Prof. Dr. Selim Unlu**, Distinguished professor of Engineering College, Departments of Electrical & Computer and Biomedical Engineering, **Prof. Dr. Erdem Topsakal**, senior Associate Dean for Strategic Initiatives and Enrolment Management, College of Engineering, and **Jack Black**, DLS Electronics Systems, Chicago, respectively.





Seminar: "From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/Training Next Generations"

Prof. Dr. Levent Sevgi
Electrical & Electronics Engineering
Computer Engineering
ATLAS University, Istanbul

Thurs, February 22, 2024 @3:00 PM
8 St. Mary's Street, Room 319
Faculty Host: Selim Unlu

Abstract:
The role of Electromagnetic (EM) fields in our lives has been increasing. Communication, remote sensing, integrated commercial counterintelligence systems, intelligent transportation systems, medicine, environment, education, marketing, defense are only a few areas where EM fields have critical importance. We have witnessed the transformation from *Engineering Electromagnetics* to *Electromagnetic Engineering* for the last few decades after being surrounded by EM waves everywhere. Among many others, EM engineering deals with broad range of problems from antenna design to EM scattering, indoor/outdoor radio wave propagation to wireless communication, radar systems to integrated surveillance, subsurface imaging to novel materials, EM compatibility to nano-systems, electroacoustic devices to electro-optical systems, etc. The range of the devices we use in our daily life has extended from DC up to Terahertz frequencies. We have had both large-scale (kilometers-wide) and small-scale (nanometers) EM systems. Large portion of these systems are broadband and digital, and have to operate in close proximity that results in severe EM interference problems. Engineers have to take EM issues into account from the earliest possible design stages. This necessitates establishing an intelligent balance between strong mathematical background (theory), engineering experience (practice), and modeling and numerical computations (simulation).

This lecture aims at a broad-brush look at certain teaching / training challenges that confront wave-oriented EM engineering in the 21st century, in a complex computer and technology-driven world with rapidly shifting societal and technical priorities.

Upcoming Events



BU Feb 22, 2024



Photonic Center Upcoming Events



BOSTON UNIVERSITY
Rajen Kilchand Center for Integrated Life Sciences & Engineering
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From "Engineering Electromagnetics" to "Electromagnetic Engineering"

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