

IEEE Antennas and Propagation Magazine

CALL FOR PAPERS

Special Issue on

“From Engineering Electromagnetics to Electromagnetic Engineering: Teaching / Training Next Generations”

Electromagnetics (EM) is everywhere! We have witnessed the transformation from engineering EM to EM engineering for some time. Therefore, addressing technical challenges posed by electrical, electronics, communication, and computer system complexities requires a broad range of innovative, multi-disciplinary analytical and computational skills that are not adequately covered in conventional EM engineering curricula. The EM engineering community must be prepared to adapt to frequent shifts in technological priorities and rapid scientific advances, followed by rapid advances in technologies. Universities and educational institutions have been actively engaged in efforts to design curricula for teaching the necessary skills to a computer-weaned generation of students, with access to the internet and consequent globalization of information. Physics-based modeling, observation-based parameterization, and computer-based simulations are the key issues of these challenges.

This special issue will focus on teaching / training challenges in electromagnetic engineering education. Possible topics for contributions include, but are not limited to:

- Innovative teaching methods for antennas, propagation, electromagnetics, and supporting fields (STEM) in the classroom
- Articles on pedagogical approaches with electromagnetics
- Approaches in industry to further training professionals in electromagnetics after graduation
- Articles on educational efforts, initiatives, and outreach activities related to electromagnetics.

Authors: Please select “Original Article - EM Education Special Issue” when submitting your manuscript and mention this in your cover letter.

- *Submission Deadline:* 1 March 2019
- *First Decision:* 15 May 2019
- *Final Decision:* 31 July 2019
- *Publication:* December 2019

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