

ESL Researchers

Rick Kindt, Post-Doctoral Researcher

Ph.D., University of Michigan

Hybrid computational methods for the analysis of large-scale electromagnetic problems, with emphasis on domain decomposition and fast algorithms for array-type structures; antenna analysis and design.



Gullu Kiziltas, Post-Doctoral Researcher

Ph.D., University of Michigan

Finite element analysis (FEA) and material design of complex engineering systems. Advanced fabrication of dielectric composites. Design and fabrication of miniaturized mechanical, electromechanical, and biomedical devices.



Stavros Koulouridis, Post-Doctoral Researcher

Ph.D., National Technical University of Athens

Computational electromagnetics including parallel processing applications and optimization. Antenna design and microwave applications in medicine.



Teh-Hong Lee, Research Scientist

Ph.D., The Ohio State University

Antenna analysis and design, including reflector antenna development, design of ultra-wideband and GPS antennas, and evaluation of antenna pattern performance in the presence of complex structures. Compact range measurement and evaluation.



Ronald Marhefka, Senior Research Scientist

Ph.D., The Ohio State University

Analysis of practical scattering and antenna problems. Development of high frequency asymptotic solutions such as the uniform geometrical theory of diffraction, hybrid solutions, and other scattering techniques. Application of high frequency techniques to analyze radiation patterns and coupling between antennas on shipboard environments. Development of solutions for radar cross sections of complex scattering bodies.



Frank Paynter, Senior Research Associate

Ph.D., The Ohio State University

Development of GUIs for computational EM including integration of ESL codes into a unified EM design and analysis workbench. Development and implementation of a state-of-the-art compact range radar system for MIT's Lincoln Laboratory.

