

**ATEF Z. ELSHERBENI**  
**IEEE Fellow (2007) and ACES Fellow (2008)**

**Invited Presentations: (Total 25 Presentations)**

**2010**

- “The Role of Computer Graphics Cards in Advancing Electromagnetics Education,” IEEE Section, Syracuse University, December 2010.
- “The Role of Computer Graphics Cards in Advancing Electromagnetics Education,” 2010 IEEE Asian-Pacific Conference on Applied Electromagnetics (APACE 2010), Port Dickson, Malaysia, November 2010

**2009**

- “RFID and Antenna Research at The University of Mississippi,” Tampere University of Technology, Finland, June 18, 2009
- “The Role of Video Cards in Enhancing Numerical Simulations for Electromagnetics Education,” State University of New York, New Paltz, NY, April 2009

**2008**

- “Computational Electromagnetics with Emphasis on Differential Equation Solution Methods for Antenna Design and the Evaluation Target’s Radar Cross-Section,” IEEE Section, Northern Illinois University, Chicago, IL, November 2008.
- “GPU Based FDTD Method with MATLAB Graphical Interface,” City University of Hong Kong, December 2007.

**2005**

- “Efficient Solutions of Electromagnetic Scattering by Large and Multiple Objects,” IEEE Section, Syracuse University, November 18, 2005.

**2003**

- “EM Analysis of Environmental Effects on Landmine Detection,” The University of Mississippi National Center for Acoustics (NCPA), August 13, 2003.

**2001**

- “Antenna Design Using the FDTD Technique,” The Electronic Research Institute, Cairo, Egypt, September 2001.

**1997**

- “Applications of FDTD in Electromagnetics and Microwaves,” Military Technical College, Cairo, Egypt, December 1997.
- “Visualization of Multimedia Technology in Teaching Electromagnetics and Microwaves,” IEEE Memphis Computer Chapter, Memphis, TN, May 19, 1997.
- “FDTD Analysis of Microwave and Millimeter Wave Networks and Microstrip printed Antennas,” Mississippi DoD EPSCoR Conference, Jackson, MS, January 1997.

**1995**

- “The Finite Difference Time Domain Technique: Analysis and Applications,” University of Southern Mississippi, December 1995.
- “Visualization Using Computer Software for Electromagnetic Waves,” The Arab Academy for Science and Technology, Cairo, Egypt, July 1995.
- “The Analysis of Microstrip Lines using Finite Difference Time Domain Technique,” The electronic Research Institute, Cairo, Egypt, 1995.
- “Techniques for the Scattering of Multiple Objects,” The electronic Research Institute, Cairo, Egypt, July 1995.
- “Multimedia and Visualization of Electromagnetic fields,” The Military Technical College, Cairo, Egypt, July 1995.

## Atef Elsherbeni – Invited Presentations

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- “Recent Developments of Computerized Tools for Electromagnetic Education at the University of Mississippi,” 10<sup>th</sup> Compumag conference, Berlin, July 1995.

### 1993

- “Modeling of Composite Two-Dimensional Materials by Dielectric, Conducting and Impedance Cylinders,” 3<sup>rd</sup> Workshop on Soft and Hard Surfaces, Ann Arbor, Michigan, June 1993.

### 1992

- “Analysis of Two-Conductor Multi-Layer Microstrip Transmission Line with Dielectric Overlay and a Notch between the Strips,” Cairo University, Cairo, Egypt, December 1992.
- “Some Experience on Using Software in Teaching at the University of Mississippi,” Workshop on “Effective Integration of Computers and Software Tools in Education” organized by CAEME, Salt Lake City, Utah, August 1992.
- “Analysis and Design of Antenna Arrays,” CAEME workshop, IEEE AP/S Symposium, Chicago, July 1992
- Atef Z. Elsherbeni and Patrick Ginn, Arrays: Interactive Analysis of Antenna Arrays. Version 1 published in the Computer Applications in Engineering Education Journal (CAE), vol. 1, no. 1, pp. 109-117, 1992.

### 1991

- “Mapping of vector fields inside Wave Guides,” CAEME Workshop, IEEE AP/S Symposium, London, Ontario, June 1991.
- “Mapping of vector fields inside Wave Guides,” University of Manitoba, Winnipeg, Manitoba, Canada, April 1991.