Andrea Alù [1]

David & Doris Lybarger Endowed Faculty Fellow in Engineering

Andrea Alù is an Associate Professor in the Electrical & Computer Engineering department at The University of Texas at Austin and holds the David & Doris Lybarger Endowed Faculty Fellowship in Engineering.

Dr. Alù received his Ph.D. (2007), M.S. (2003) and Laurea (2001) degrees from the University of Roma Tre (Italy), and worked as a Postdoctoral Researcher at the University of Pennsylvania in 2007-2008. Dr. Alù is the co-author of over 400 scientific contributions published in international books, journals, transactions and peer-reviewed conference proceedings and is the co-inventor of three US Patents related to his research. His papers have received over 2,500 citations (until Aug. 2011), with an h-index of 24. Some of his research achievements have raised worldwide attention in the scientific and news press, like in the case of metamaterial cloaking and optical nanocircuits and nanoantennas.

Over the last few years, he has won several international research awards, among which the prestigious URSI Issac Koga Gold Medal (2011), an NSF CAREER award (2010), the AFOSR Young Investigator Award (2010), the Leopold B. Felsen Award for Excellence in Electrodynamics (2008), the SUMMA Graduate Fellowship in Advanced Electromagnetics (2004), Young Scientist Awards from URSI General Assembly (2005) and URSI Commission B (2007 and 2004), IEEE AP-S Student Paper award (2003) and the Raj Mittra Travel Grant Award (2004). He serves as OSA Traveling Lecturer since 2010, as associate editor of Optics Express and IEEE Antennas and Wireless Propagation Letters, as a guest editor for several special issues in the areas of metamaterials and plasmomics.

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Research Interests:

Electromagnetic theory and applications
Metamaterials and plasmonic nanomaterials
Nanoelectromagnetics
Scattering
Plasmonic cloaking
Optical nanocircuits and nanostructures modeling
Miniaturized RF antennas and nanoantennas
Plasmonics, nano-optics and nano-photonics
Microwave, THz, infrared and optical applications of complex media, metamaterials and metasurfaces
Optical properties, biological and biomedical applications of plasmonic nanoparticles
Photonics and materials science

Metal-dielectric nanocomposites and thin metal films
Electromagnetic and photonic crystals
RF antennas and circuits
Analysis and synthesis of planar and conformal integrated components and phased antenna arrays
Theoretical and numerical methods for electromagnetics

Portrait:

Office:

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Website - Personal:

Personal Website [3]

Research Groups:

Wireless Networking and Communications Group (WNCG) [4]
Texas Acoustics [5]
Metamaterials and Plasmonic Research Laboratory [6]

Faculty Position:

Associate Professor

Research Areas:

Electromagnetics & Acoustics [7]

Graduate Studies Committee Member:

Yes

Chair:

No

User Account:

aa32498 [8]

Electrical and Computer Engineering

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