Engheta, Nader

Professor Engheta is recognized for his trailblazing contributions in engineering and physics of light-matter interaction in metamaterials. He has pioneered several transformative new fields in electromagnetic/optical sciences, including optical metatronics (circuits with light at the nanoscale); zero-parameter materials (e.g., near-zero-index media); and plasmonic cloaking. His work on metatronics has unified the fields of electronics and photonics with nanocircuit elements for photons and electrons. His work on epsilon-near-zero materials has introduced an entirely new paradigm for ...