Project Title: Mathematics for Imaging
Researcher: Prof. Habib AMMARI
Country: Tunisia
Field: Mathematics
Scientific Affiliation: Ecole Normale Supérieure, Paris

Abstract:

The aim of this research work is to develop new mathematical tools and inversion methods to address emerging modalities in medical imaging, nondestructive testing, and environmental inverse problems. It synergizes asymptotic imaging, stochastic modelling, and analysis of both deterministic and stochastic wave propagation phenomena in order to go further in the field of mathematical imaging and solve challenging problems posed by new imaging modalities.

Biography:

Habib Ammari is a Director of Research at the Department of Mathematics and Applications at Ecole Normale Supérieure in Paris. He received a Bachelor›s degree in 1992 and a Master›s degree in 1993, and a Ph.D. in applied mathematics, all from the Ecole Polytechnique, France. Then, he received a Habilitation degree in Mathematics from the University of Pierre & Marie Curie in Paris three years later.

Prof. Ammari is a world leading expert in wave propagation phenomena, asymptotic analysis, and mathematical imaging. He published more than 180 research papers, seven high profile research-oriented books and edited seven books on contemporary issues in applied mathematics.