

Title: Some results on the solutions of boundary value problem in non smooth situations

Abstract: Solutions of elliptic boundary value problems with regular data and smooth domains obey in general to the shift regularity property. This means that the regularity of the solutions increases as the data become more regular. For non smooth domains (e.g. polygonal-shaped domains) or even for the smooth ones but with mixed boundary conditions (e.g. Dirichlet and Neumann conditions), the shift regularity property is no longer valid. The purpose of this talk is to presents results in some of these situations.

Short Biography:

Mohand Moussaoui received a *Doctorat d'Etat* from University of Nice, France, in 1977. Since then, he hold several faculty and administrative positions at various institutions including University of Algiers, Ecole Normale Superieure of Lyon, University of Rennes 1, University of Bordeaux, Ecole Centrale of Lyon, and Ecole Normale Superieure, Algiers. Professor Moussaoui research interest pertains to the mathematical analysis and computational methodologies for PDEs.