



11Th Khwarizmi International Award

Feb 1998

Guest of Honor

Researcher: Mohamed Belhaq

Research Title: Non-linear oscillation in mechanical systems

Field: Mechanics

Country: Morocco



Prof. Belhaq was born 9th Sep 1953 and joined the University Hassan II de Casablanca in 1982 after receiving his doctorate from the University Paul Sabatier, Toulouse, France.

Prof. Belhaq is a member of the International Research Center for Mathematics & Mechanics of Complex Systems (M&MoCS) and he is the author and co-author of 100 scientific papers published in leading journals in mechanics, nonlinear dynamics and applied mathematics. He contributed in many international conferences and workshops.

Scientific activity:

The research activity is mainly directed to the study of forced nonlinear vibrations in simple mechanical systems (elastic structures related to civil engineering) with 1 or more degree of freedom in nonlinear regime. In this field is author of about 35 publications.

The fundamental research areas are:

- Dynamic analysis of simple elastic structure in nonlinear regime
- Transition from regular to chaotic regime
- Suppression of chaotic regimes in quasi-periodic forced nonlinear oscillators
- Dynamic of tree and four-dimensional systems
- Forced convection in 'T' from enclosures heated by below
- Convective instability of magnetic fluids