



Abstract and Applied Analysis

Special Issue on  
**Analysis and Models in Interdisciplinary  
Mathematics 2015**

# CALL FOR PAPERS

Mathematical modeling is an active area of applied mathematics. At its beginning, engineers were the main practitioners of this area of mathematics, developing mathematical models for solving engineering problems in natural sciences.

Recently, mathematical modeling of social behavior, such as addictions, social disorders, or educational achievements, has emerged. A paramount issue in the study of social behavior is social contagion, not only by the influence of the Internet and social networking, but also by mimetic human behavior.

Analysis methods and models in social sciences are similar to those of nature sciences including engineering, with the only difference that instead of using principles of the nature one uses principles or theories from experts of such sciences.

In this special issue, we try to integrate models and methods not only in the scope of traditional natural sciences, but also in opening the scope to the social sciences framework. Also, theory and data-driven models, even in a synergy that gives rise to producing fertile, multidisciplinary, and hybrid models, are considered.

Potential topics include, but are not limited to:

- ▶ Deterministic differential equations: methods and models
- ▶ Random differential equations: methods and models
- ▶ Numeric and modelling analysis
- ▶ Optimization and evolutionary algorithms models and methods
- ▶ Educational models and methods
- ▶ Social and medical disorders modelling
- ▶ Social networks models and methods
- ▶ Engineering models and simulation
- ▶ Analysis modelling in economics
- ▶ Algebraic models and methods with applications
- ▶ Intelligent data analysis models and methods

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/aaa/moma15/>.

**Lead Guest Editor**

Lucas Jódar Sánchez, Universidad  
Politécnica de Valencia, Valencia, Spain  
*ljodar@mat.upv.es*

**Guest Editors**

Benito Chen-Charpentier, University of  
Texas at Arlington, Arlington, USA  
*bmchen@uta.edu*

Juan Carlos Cortés López, Universidad  
Politécnica de Valencia, Valencia, Spain  
*jccortes@imm.upv.es*

Francisco Javier Solís Lozano, Centro de  
Investigación en Matemáticas (CIMAT),  
Guanajuato, Mexico  
*solis@cimat.mx*

Rafael Jacinto Villanueva Micó,  
Universidad Politécnica de Valencia,  
Valencia, Spain  
*rjvillan@imm.upv.es*

**Manuscript Due**

Friday, 2 January 2015

**First Round of Reviews**

Friday, 27 March 2015

**Publication Date**

Friday, 22 May 2015