

# PREFACE

The *International Conference Zaragoza-Pau on Applied Mathematics and Statistics* is organized every two years by the *Departamento de Matemática Aplicada*, the *Departamento de Métodos Estadísticos*, both from the *Universidad de Zaragoza* (Spain), and the *Laboratoire de Mathématiques Appliquées*, from the *Université de Pau et des Pays de l'Adour* (France). The aim of this conference is to present recent works in Applied Mathematics and Statistics, putting special emphasis on subjects linked to petroleum engineering and environmental problems.

The Tenth Conference took place in Jaca (Spain) from 15th to 17st September 2005. Breaking for the first time the two-year periodicity of the Conference, its tenth edition did not take place in 2007, since two related events filled the calendar in this year. The official opening ceremony was graced by the presence of the Chancellor of the University of Zaragoza, Excmo. Sr. Rector Mgfco. D. Manuel J. López Pérez, and the Chancellor of the University of Pau, M. le Président Jean-Louis Gout. During those three days, 111 mathematicians, coming from different universities, research institutes or the industrial sector, attended 10 plenary lectures, 52 contributed talks and a poster session with a total of 11 posters. The principal topics were: theoretical and numerical analysis of deterministic models described by differential equations, statistics and stochastic processes, surface approximation and image analysis. At the same time, there was also a session devoted to Algebra and Geometry. These proceedings contain 2 papers based on the corresponding invited lectures along with 30 full length refereed research papers.

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The next edition of the Conference Zaragoza-Pau will be held in Jaca from 15th to 17th September 2010. All of you are cordially invited to participate in this event.

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The Editors

María Cruz López de Silanes  
Manuel Palacios  
Departamento de Matemática Aplicada  
Universidad de Zaragoza

Monique Madaune-Tort  
C. Paroissin  
David Trujillo  
Laboratoire de Mathématiques Appliquées  
Université de Pau et des Pays de l'Adour

Gerardo Sanz  
Departamento de Métodos Estadísticos  
Universidad de Zaragoza

Juan José Torrens  
Departamento de Matemática e Informática  
Universidad Pública de Navarra