

Preface

From July 3 to 8, 2016, a group of scientists from around the world met in Rhodes, Greece, 10 years after the meeting “20 Years of Nonlinear Dynamics in Geosciences” held at the same place in June 2006. The purpose of the meeting was to discuss the new advances in Nonlinear Geosciences since then and to propose future research directions.

A lot has happened since 2006. Most notably, the introduction of networks in geosciences studies, advances in chaos synchronization, topological data analysis, new insights on fractals, multifractals and stochasticity, climate dynamics, extreme events, complexity, and causality, among other topics.

This volume is the result of this meeting. I would like to thank all the contributors for their effort to produce this book. I am honored to host all of you and I hope that there will be a “40 Years in Nonlinear Dynamics in Geosciences” in 10 years from now.

By the way, the sequence of the papers is based on the alphabetic order of the first author.

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