

Preface

The chapters in this volume of the Springer Proceedings in Mathematics & Statistics series, entitled *Nonlinear Maps and Their Applications*, come from the works presented in the Fourth International Workshop on Nonlinear Maps and Their Applications (NOMA 2013), which took place in Zaragoza, Spain, 3–4 September, 2013. The workshop was locally organized by Ricardo López-Ruiz (RLR) and hosted by the University of Zaragoza at its Faculty of Sciences.

This conference follows the sequence of Workshop on Nonlinear Maps and Their Applications which started in Toulouse 2007, and continued in Urbino 2009 and in Évora 2011.

The objective of the NOMA 2013 Conference was to provide a forum in the field of discrete dynamical systems. It was open for theoretical studies as well as for applications. The interaction and the knowledge exchange among mathematicians, physicists, engineers, and other specialists, and young researchers, from nonlinear sciences was very fruitful and gave rise to new insights in this area, in the pleasant atmosphere provided by the town of Zaragoza. It consisted of five invited lectures given by Yves Pomeau (École Normale Supérieure de Paris, France), Oreste Piro (University of Balearic Islands, Spain), Víctor Mañosa (Polytechnic University of Catalunya, Spain), Elena Blokhina (University College Dublin, Ireland), and Anirban Chakraborti (École Centrale de Paris, France) as well as over 20 contributed lectures of 15 different countries (Portugal, Japan, France, Spain, Czech Republic, Russia, Belgium, Iran, Poland, Mexico, Venezuela, Brazil, Tunisia, Germany, and Argentina).

This volume is a compilation of the selected works presented in the workshop and that have been accepted for publication. The diversified nature of the conference is reflected in the spectrum of the 17 chapters published here, where 36 researchers are contributing.

The editors, specially the local organizer (RLR), would like to thank all conference participants, committees, authors, who submitted papers for this volume, for their valuable contribution, as well as reviewers for their time and expertise to review the works presented here.

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