

# Preface

The articles in this volume of the Springer Proceedings in Mathematics, titled *Nonlinear Maps and Their Applications*, has its origins in the Third International Workshop on Nonlinear Maps and Their Applications (NOMA 2011), which took place in Évora, Portugal, September 15–16, 2011. The workshop was organized and hosted by the University of Évora and the CIMA Research Center.

This conference follows in the sequence of Workshops on Nonlinear Maps and Their Applications, which began in Toulouse 2007 and continued in Urbino in 2009.

The objective of the NOMA 2011 conference was to provide a forum in the field of dynamical systems. It was open to theoretical studies as well as applications. The interaction and knowledge exchange among mathematicians, physicists, engineers, and other specialists as well as young researchers from the nonlinear sciences was very fruitful and gave rise to new developments in this area, in the pleasant atmosphere provided by the town of Évora.

The conference consisted of invited lectures given by Francisco Balibrea (University of Murcia, Spain), Ton Coolen (King's College London, UK), José Fernando Mendes (University of Aveiro, Portugal), Erik Mosekilde (Technical University of Denmark, Denmark), Iryna Sushko (National Academy of Sciences of Ukraine), Soumitro Banerjee (Indian Institute of Technology, Kharagpur, India), and Alberto Pinto (University of Porto, Portugal) as well as over 50 contributed lectures by representatives of 15 different countries (Portugal, Japan, France, UK, Italy, Spain, Ukraine, Germany, India, Russia, Norway, Denmark, Sweden, Poland, and Algeria).

This volume is a compilation of selected papers presented at NOMA that have been accepted for publication. The diversified nature of the presentations is reflected in the spectrum of the 16 papers published here.

The editors would like to thank all conference participants, organizers, and authors who submitted papers for this volume for their valuable contribution, as well as the reviewers for their expertise.

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