PROCEEDINGS INTERNATIONAL CONFERENCE

2004 – DYNAMICAL SYSTEMS AND APPLICATIONS

Haydar Akça Abdelkader Boucherif

King Fahd University of Petroleum & Minerals Dhahran, Saudi Arabia Valéry Covachev

Sultan Qaboos University Muscat, Oman

JULY 05-10 2004, ANTALYA

Editorial Board

Akça Haydar, KFUPM Ashyralyev Allaberen, Fatih University Cheban David, State University of Moldova Covachev Valéry, Sultan Qaboos University Debnath Lokenath, University of Texas Elaydi Saber, Trinity University Rhandi A., University of Marrakech Sui Sun Cheng, Tsing Hua University

Organizing Committee

Akça Haydar, KFUPM
Basem S. Attili, UAEU Al-Ain
Boucherif Abdelkader, KFUPM
Cho Yeol Je, Gyeongsang National University
Covachev Valéry, Sultan Qaboos University
Győri Istvan, University of Veszprem
Maksimov Vyacheslav, Ural State Polytechnic University
Stavroulakis Ioannis P., University of Ioannina

Scientific Committee

Agarwal Ravi P., Florida Institute of Technology Alaoui A., Université du Havre Altmayer Kumud S., University of Arkansas Arabnia Hamid R., The University of Georgia Ashyralyev Allaberen, Fatih University Azbelev N. V., Perm State University Basem S. Attili, UAEU Al-Ain Cahlon B., Oakland University Covachev Valéry, Sultan Qaboos University Debnath Lokenath, University of Texas – Pan American Elaydi S., Trinity University Gopalsamy K., Flinders University Győri I., University of Veszprem Hbid H. L., University of Marrakech Kim Joung Kyu, Kyungnam University Kirane Mokhtar, Université de La Rochelle Kolmanovskii V., Moscow Inst. of Electronics and Mathematics Maksimov V., Ural State Polytechnic University O'Regan Donal, National University of Ireland Sambandham M., Morehouse College Stavroulakis Ioannis P., Univ. of Ioannina Syam Mohamed I., UAEU Al-Ain Vanmaele Michèle, Ghent University Weiwei Sun, City University of Hong Kong

Preface

The International Conference 2004 – Dynamical Systems and Applications is a continuation of the previous two conferences which were held in 1997 and 1999 in Antalya. The objective of the conference is to provide a forum for researchers working on both differential and difference equations theory and its applications. Sharing ideas and discussions on the state of art in differential and difference equations theory and applications is aimed at stimulating the future development.

We received 148 papers from 26 different countries and out of this number 69 papers have been included in the proceedings.

The present volume contains mainly papers based on the talks given at the conference. All the papers are original works and have undergone the standard refereeing procedure. We hope that this volume will be of interest to a wide spectrum of specialist and researchers in differential and difference equations, functional differential equations and their applications.

We wish to thank all authors for submitting their work to 2004 – Dynamic Systems and Applications. Our special gratitude and deep thanks are due to Professor Valéry Covachev for his serious concern and typing and rearranging all the papers submitted to the International Conference 2004 – Dynamical System and Applications which made this proceedings appearance possible. Finally, we thank M.K. Jha Director GBS Publishers & Distributors and all members of GBS Publishers for their pleasant cooperation and publishing our Proceedings.

We hope that there was ample time for discussion and opportunity to make new acquaintances. We hope that all participants experienced an interesting and exciting conference and enjoyed their stay in Antalya.

December 2004

Editors

Akça H.

Boucherif A.

Covachev V.