European Workshop on Nonlinear Maps and Applications (NOMA 2017)

Journal of Physics: Conference Series Volume 990

Nizhni Novgorod, Russia
28 – 30 June 2017

ISBN: 978-1-5108-6070-4
ISSN: 1742-6588

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by the Institute of Physics
All rights reserved. The material featured in this book is subject to
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of contents

Volume 990

European Conference - Workshop "Nonlinear Maps and Applications"

28–30 June 2017, Nizhni Novgorod, Russian Federation

Accepted papers received: 15 March 2018
Published online: 29 March 2018

Preface

European Conference - Workshop "Nonlinear Maps and Applications"

Committee

Acknowledgements

Peer review statement

Papers

On the quadratic Morse-Smale endomorphisms

Svetlana S. Belmesova.....1

Superposition principle for the continuity equation in a bounded domain

P Bonicatto and N A Gusev.....16

The Trace Map and Integrability of the Multifunctions

Lyudmila S. Efremova.....28

Harmonic mode-locking and sub-round-trip time nonlinear dynamics of electro-optically controlled solid state laser

M V Gorbunkov, Yu Ya Maslova, V A Petukhov, M A Semenov, Yu V Shabalin and V G Tunkin.....38

Strong generalized synchronization with a particular relationship *R* between the coupled systems

Clara Grácio, Sara Fernandes and Luís Mário Lopes.....51

On strong sensitive points of continuous maps on dendrites

Elena Makhrova.....59

Constructions of conformal measures for generalized interval exchange transformations

Mikhail Malkin and Klim Safonov.....65

Experimental research of iterated dynamics for the complex exponentials with linear term

Igor V. Matyushkin and Maria A. Zapletina.....71

Dynamics of one model of the fast kinematic dynamo

Timur Medvedev, Vladislav Medvedev and Evgeny Zhuzhoma.....88

On existence of a smooth arc without bifurcations joining source-sink diffeomorphisms on 2-sphere

E. V. Nozdrinova and O. V. Pochinka.....97

Allee's dynamics and bifurcation structures in von Bertalanffy's population size functions

J. Leonel Rocha, Abdel-Kaddous Taha and D. Fournier-Prunaret.....104

Averaging of Random Flows of Linear and Nonlinear Maps

Vsevolod Zh. Sakbaev.....124

Diagonalization of log-integrable operator $\mathbb{R}$-cocycles

Anatole M. Stepin.....142

The existence of attractors of Weyl foliations modelled on pseudo-Riemannian manifolds

N.I. Zhukova.....148