

Abdul Wali Khan University Mardan KPK Pakistan

A Fractional Order HP Memristive System with a Line of Equilibria, its Bifurcation Analysis, Circuit Simulation and ARM-FPGA-based Implementation

Tantoh Bitomo Francis Richard

University Of Yaounde I, Cameroon

Co-authors: Kammogne Soup Tewa Alain

University of Dschang, Cameroon

Symposium-4-3 (Track-2) (20-min talk + 5-min Q&A)

Solitons and Other Localized Structures in Physical and Mathematical Sciences

(Session Chair: Yury Stepanyants)

Multidimensional Riemannian Spaces and Their Applications for Integration of Navier-Stokes Equations

Valerii Dryuma

Moldova State University, Moldova

Two-dimensional Nonlinearity Managed Vector Solitons

Fatkhulla AbdullaevM.Ogren

Co-authors: J.Yuldashev

Physical-technical institute of Uzbekistan
Academy of Sciences, Uzbekistan

A Review: Discrete and Semi-discrete Multidimensional Solitons and Vortices -- Established Results and Novel Findings

Boris Malomed

Tel Aviv University, Israel

Stability of KdV Solitons with Respect to Transverse Perturbations: Absolute and Convective Instabilities
Michael Ruderman

University of Sheffield, UK

Co-authors: Nikolai Petrukhin, Efim Peinovsky

National Research University – Higher School of Economics, Institut of Applied Physics RAS

Symposium-12-2 (Track-3) (15-min talk + 5-min Q&A)

Nonlinear Dynamics of Engineering Systems

(Session Chair: Pierpaolo Belardinelli)

Attention is All You Need - an Interpretable Artificial Neural Network Architecture

Nico Novelli

Polytechnic University of Marche, Italy

Co-authors: Pierpaolo Belardinelli

Polytechnic University of Marche, Italy

The Influence of Friction on the Dynamics of Elastic Systems Susceptible to Stick-slip Motion

Migliaccio Giovanni

University of L'Aquila, Italy

Co-authors: Barsotti Riccardo, Bennati Stefano

University of Pisa, Italy; University of Pisa, Italy

Disturbance Analysis of an Interconnected Power System

Yizi Cheng