



# Program CHAOS2024

**17<sup>th</sup> Chaotic Modeling and Simulation International Conference**  
*Chania, Crete, Greece, 11 - 14 June, 2024 Hybrid*

**Cultural Centre Of Chania**

**Tuesday, 11.6.2024**

**Andrea Papandreou 74**

**TIME ZONE: EEST – Eastern European Summer Time**

**8:30 - 10:00**  
**Room 1**  
 Registration

**10:00 - 10:40 -**  
**Room 1**  
[Opening](#)

**10:40-11:00**  
**Plenary Session**  
[Room 1](#) (PS1)  
**Chair: Christos Floros**  
**Speaker: Leszek Sirko**  
*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*  
**Title: Some Important Properties of Quantum Graphs and Microwave Networks with Broken and Preserved Time Reversal Symmetries**

**11:00- 11:30 Coffee Break**

**11:30-14.00**  
**SCS1**  
**Special and Contributed Sessions**

[Room 1](#)

[Room 2](#)

**SPECIAL SESSION**  
 Special session of LAFIM of HMU on  
 “Accounting and Financial Management”  
**Chair: Christos Floros**

**Invited session**  
 LENL: Localized Excitations in Nonlinear  
 Lattices.  
**Chair: Jānis Bajārs and Juan FR Archilla**

What drives Connectedness? Stylized Facts  
 from Mean and Volatility Dynamics  
**Nikolaos Antonakakis, Ioannis  
 Chatziantoniou, and David Gabauer**

Development of Nonmonotonically  
 Propagating Annealing of Defects with  
 Oscillating Temperature at the Wave Front  
**Pavel Selyshchev**

Empirical Evidence of Key Audit Matters  
 (KAM) in Independent Audit Reports: The  
 Case of Greece  
**Dimitrios I. Vortelinos and Yiannis  
 Yiannoulis**

Effects of Self-correlated Gaussian Noise on  
 the Emergence of Robust Breathers in the Ac-  
 driven, Dissipative sine-Gordon Model

	<b>Duilio De Santis, Giovanni Di Fresco, Claudio Guarcello, Bernardo Spagnolo, Angelo Carollo, and Davide Valenti</b>
The Impact of Climate Risk and Policy Uncertainty on U.S. Financial Stability: A Focus on ESG Disclosure <b>Konstantinos Kapetanakis and Christos Floros</b>	Nonlinear Energy and Charge Transport in Silicates. Experiments and Semiclassical Models <b>Juan F.R. Archilla, Jānis Bajārs, Yusuke Doi, Masayuki Kimura</b>
Unraveling the Influence of Board Tenure and Financial Expertise on Bank Performance: Evidence from US Banking Industry <b>Evangelos G. Varouchas, Stavros E. Arvanitis, George M. Agiomirgianakis and Christos Floros</b>	Numerical Integration of Thermostated Semiclassical Hamiltonian Lattice Equations <b>Jānis Bajārs, Juan F.R. Archilla</b>
World Uncertainty and Volatility Transmission on Global Sustainability Indices: Mixed Data Sampling Approach <b>Nektarios Gavrilakis and Christos Floros</b>	Soliton Dynamics in an Oscillating Magnetic Field <b>Larissa Brizhik</b>
	Thermalization slowing down for weakly nonintegrable many-body dynamics <b>Sergej Flach</b>
	Traveling Localized Vibrations in a Magnetically Coupled 2-DOF Resonators <b>Masayuki Kimura</b>
	Path to equilibrium of breathers in nonlinear lattices <b>Juan FR Archilla, Jānis Bajārs and Sergej Flach</b>
<b>14:00-15:00 Lunch</b>	
<b>15:00-16.00</b> <b>SCS2</b> <b>Special and Contributed Sessions</b>	
<b><u><a href="#">Room 1</a></u></b>	<b><u><a href="#">Room 2</a></u></b>
<b>Delay</b>	<b>Applications to Art</b>
Delay as an Energy Regulator of the Generation of Deterministic Chaos in Hydrodynamic Systems with Limited Excitation <b>Aleksandr Shvets and Ilmi Seit-Dzhelil</b>	Evolution of the Ode to Joy Melody from Mozart to Mahler <b>Avadis S. Hacinliyan</b>
Stationary States for Dynamical Systems on Graph and Delay Differential Equations <b>Armando Bazzani and Giulio Colombini</b>	The phonology of the 1,000 most frequent words in Greek and English <b>Elena Babatsouli</b>
Synchronized States in Coupled Time-Delayed Chaotic Systems with Direct and Indirect Couplings	Completion Attempts of incomplete works in Classical Music with Literature Search and Artificial Intelligence

<b>Berc Deruni, Ali Cihan Keles, and Engin Kandiran</b>	<b>Avadis S. Hacinliyan</b>
<b>16:00-16:40</b> <b><a href="#">Room 1</a> (PS3)</b> <b>Plenary Session</b> <b>Chair: Dimitrios Sotiropoulos</b> <b>Speaker: Vyacheslav Somsikov</b> <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i> <i>Title: Physics of Evolution and Problems of Physics</i>	
<b>End of the 1<sup>st</sup> Day</b>	



# Program CHAOS2024

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**Cultural Centre Of Chania**

**Wednesday, 12.6.2023**

**TIME ZONE: EEST – Eastern European Summer Time**

**10:00-11:30**

**SCS3**

**Special and Contributed Sessions**

**Room 1**

**Room 2**

**Workshop session  
Exploring the Frontiers of Chaos Theory and  
Dynamical Systems  
Organisers: Chris Antonopoulos and Denis  
Edson Leonel**

**Chaotic Aspects/1**

**Advances in Chaos Theory and Dynamical  
Systems  
Chris G. Antonopoulos**

**Chaos Frequency Shift Keying Modulator  
based on Memristor Colpitts Oscillator  
Aikaterini Tsianaka and Tsakiridis  
Odysseus**

**Network Inference Combining Mutual  
Information Rate and Statistical Tests  
Chris G. Antonopoulos**

**Chaos Functions, Discrete Limit Cycles and  
Active Dynamics  
Shunji Kawamoto**

**Networks, Collective Behaviour and  
Applications  
Chris G. Antonopoulos**

**Chaotic Reshaping: Improving LCG Outputs  
with Chaotic Techniques  
Bewar Nemat, Muhammet Baykara, and  
Fatih Özkaynak**

**Exploring the Frontiers of Chaos Theory and  
Dynamical Systems  
Chris Antonopoulos and Denis Edson Leonel**

**Design of Synchronized Coupled Chaotic  
Map and FPGA Implementation  
Nafiseh Hematpour, and Berna Ors Yalcin**

**11:30- 12:00 Coffee Break**

**12:00-14:00**

**SCS4**

**Special and Contributed Sessions**

**Room 1**

**Room 2**

**Control**

**Chaotic Aspects/2**

**Analysis of Fractional MPC nonlinear control  
applied to Fractional Rössler oscillator  
Devasmito Das, Ina Taralova, and Jean-  
Jacques Loiseau**

**Exploring Chaos and Ergodic behavior of an  
Inductor less Circuit driven by Stochastic  
Parameters  
Soumyajit Seth Abhijit Bera, and Vikram  
Pakrashi**

<p>Chaotic Jerk Generator: Circuit and Practical Realizations, Analysis and Control of the Oscillations <b>Volodymyr Rusyn and Christos H. Skiadas</b></p>	<p>Improve the Organizational Reliability of Socio-technical Systems by using the Chaotic Approach <b>Abdelbaki Laidoune</b></p>
<p>Homoclinic orbit and Sunspot in a Monetary Policy Optimal Control Model <b>Beatrice Venturi</b></p>	<p>Investigating Hyperchaos in the Locomotion of <i>C. elegans</i> <b>Dimitrios Tzepos, Jenny Magnes, and Susannah Zhang</b></p>
<p>Optimization based Sliding Mode Control for Attitude control of a Delta-wing UAV <b>Gulivindala Kishore, Neetesh kumar, and Subrahmanyam Saderla</b></p>	<p>Investigating Temperature Effect on the Electrical conductivity of Graphene Lattice: Chaos Approach <b>Sohrab Behnia, Roghayeh Pooshgan, and Masumeh Garagozi</b></p>
<p>State Estimation and Control Synthesis Problems for a Class of Nonlinear Dynamical Systems under Uncertainty <b>Tatiana F. Filippova and Oxana G. Matviychuk</b></p>	<p>Optimization of the Management of the Quality of Living Environment using the Chaotic Approach <b>Nabil Sahraoui</b></p>
<p>Synchronization of Chaotic Buck Converters under Current Mode Control and its Applications <b>Dmitrijs Pikulins, Aleksandrs Ipatovs, Sergejs Tjukovs, Daniils Surmacs, and Juris Grizans</b></p>	<p>Memories Reservoir in a Spiking Modular Neural Network <b>Silvia Scarpetta and Vincenzo Palmieri</b></p>
<b>14:00-15:00</b>	
<b>LUNCH</b>	
<b>15:00 - 21:00</b>	
<b>Excursion to Chania Archeological Museum and Eleftherios Venizelos Foundation ending with a Greek "Meze" in a local Taverna</b>	
<b>End of the 2<sup>nd</sup> Day</b>	



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**Thursday, 13.6.2023**

**TIME ZONE: EEST – Eastern European Summer Time**

9:30-11:45

SCS5

**Special and Contributed Sessions**

**Room 1**

**Room 2**

Invited Session

Complex Nonlinear and Chaotic Dynamics toward  
Supreme Functions in Real System

**Fumiyoshi Kuwashima**

**Chaotic Aspects/3**

Analysis of Dynamic Isotropic Percolation Process  
in Higher Orders of Perturbation Theory

**Michal Hnatič, Matej Kecer, Tomáš Lučivjanský,  
Lukáš Mižišin, and Yuri G. Molotkov**

Proving Chaos in a Simple Model of  
Interdependent Economies: A Topological  
Approach

**Marina Pireddu (joint work with Alessio  
Bosisio and Ahmad Naimzada)**

Analysis of Magnetohydrodynamic Turbulent  
Systems with Parity Symmetry breaking in Higher  
Orders of Perturbation Theory

**M. Hnatič, T. Lučivjanský, L. Mižišin, Yu.  
Molotkov, And A. Ovsianikov**

Separation of a Class of Chaotic and Random  
Signals using MLP and Recurrence Plots

**Fernando Henrique dos Santos and Marcio  
Eisencraft**

Changes in the Dynamics of the Dam Body  
Behavior during Exploitation of Enguri High Arch  
Dam **Teimuraz Matcharashvili, Tamaz Chelidze,  
Aleksandre Sborshchikovi, Ekaterine  
Mepharidge and Dimitri Tephnadze**

Preliminary Analysis of Molten Material Self-  
Organization during Laser Polishing

**Evgueni V. Bordatchev**

Chaotic Dynamics of the Kinetics of Crystallization  
of Liquids from the Gas Phase **Ivan G. Grabar,  
Yuri O. Kubrak, and Mykola M. Marchuk**

Symmetry and Chaos with  $SO(3)$  Rotation-  
Reflection "Charges" in the Time-Discrete Frenet  
Frame **Bernd Binder**

Complex Dynamics generated by Simultaneous  
Route and Departure Time Choice in  
Transportation Networks

**M.M. Khoshyaran and J.P. Lebacque**

Testing Nonlinearity and Chaos Analysis in the  
Electricity Prices in the Iberian Electricity Market  
(MIBEL)

**Ana Maria Guedes**

Complex Traffic Dynamics in Very Large Dense  
Networks: The 2D Approach **M.M. Khoshyaran  
and J.P. Lebacque**

Marble Block Evaluation: Detecting Cracks with  
Lyapunov Exponents

**Ümmühan Özkaynak and Fatih Özkaynak**

Dynamics and Integrability of the Double-spring  
Pendulum **Wojciech Szumiński**

<b>11:45-12:15</b>	
<b>Coffee Break</b>	
<b>12:15-14:15</b>	
<b>SCS6</b>	
<b>Special and Contributed Sessions</b>	
<b><u>Room 1</u></b>	<b><u>Room 2</u></b>
<b>Chaotic Dynamics</b>	<b>Models and Modeling/ 1</b>
Global Limit Cycle Bifurcations, Chaos and Multistability in Polynomial Dynamical Systems <b>Valery Gaiko</b>	Advanced Algorithms of Framework DataBase (FDB) Model: An example of Automatic Greek Scientific Medical Articles Classification <b>Evangelia N. Petraki</b>
Mathematical Formalism of Phenomenology of Mind: Dynamics of Space-Time Clouds <b>Ihor Lubashevsky and Vasily Lubashevskiy</b>	Anomalous Scaling in the Kraichnan Model under the Influence of Small-scale Anisotropy. Two-loop analysis <b>E. Jurčišinová, M. Jurčišin and R. Remecky</b>
Micro-fluid Dynamic Simulations of Hyperlipidemia-induced Changes on the Level of Capillary Blood Viscosity Origin of Nonstochasticity at the Capillary Network <b>Lubomir Traikov, Todor Bogdanov, Maria Dimitrova, Elitsa Stoyanova, Radka Tafrađjiiska-Hadjiolova, Zafer Sabit, Akira Ushiyama and Chiodji Ohkubo</b>	Application of an Invariant Model of Boltzmann Statistical Mechanics and Convolution Theory to Turbulent Combustion <b>Siavash H. Sohrab</b>
On the Dynamics of a Cournot Duopoly Game with Heterogeneous Players, Social Welfare and Asymmetric Information <b>Georges Sarafopoulos, Kosmas Papadopoulos, and Despoina Terzopoulou</b>	Modeling the Circumference of a Generalized Superellipse <b>Maria-Sofia Sotiropoulou and Dimitrios A. Sotiropoulos</b>
Real-time Aerodynamic Parameter Estimation of Aircraft using Adaptive Law-based Technique <b>Neetesh Kumar and Subrahmanyam Saderla</b>	Creep Phenomena for Self-similar Models of Viscoelastic Materials <b>Andriy Kryvkoř, Didier Samayoa Ochoa, and Lucero Damián Adame</b>
Towards Naturalized Phenomenology: Dynamics of Space-Time Clouds and Power Law of Working Memory <b>Ihor Lubashevsky</b>	Comparison of Approaches to Business Process Optimization: Classical Methods and Modeling Using Logistic Mapping <b>Korniy Kostkin</b>
<b>14:15-15:00 Lunch</b>	
<b>15:00-15:40</b>	
<b><u>Room 1</u> (PS3)</b>	
<b>Plenary Session</b>	
<b>Chair: Christos H Skiadas</b>	
<b>Speaker: <u>Victor J Law</u> and <u>Denis P Dowling</u></b>	
<i>School of Mechanical and Materials Engineering, University College Dublin, Belfield, Dublin, Ireland</i>	
<b>Title: Green Chemistry Dual Power-law Test for Microwave-assisted Synthesis of Transition Metal Nanostructures</b>	
<b>15:40-16:00</b>	
<b>Coffee Break</b>	
<b>16:00-18:00</b>	
<b>SCS7</b>	
<b>Special and Contributed Sessions</b>	

<u>Room 1</u>	<u>Room 2</u>
<b>Chaotic Theory</b>	<b>Models and Modeling/ 2</b>
Derivation of Wave Equations and Investigation of Gravitational Waves in the Gravitational Field of a Condensing Cosmogonical Body based on the Statistical Theory <b>Alexander M. Krot</b>	Models of Critical Neural Dynamics and Inhibition based on Neon Lamps <b>Antonio de Candia</b>
Dirac Relativistic Quantum Mechanics as a Fluid Dynamical Theory <b>Asher Yahalom</b>	Parametric Model Identification of Flight Vehicles using Metaheuristic Optimization <b>Neetesh Kumar and Subrahmanyam Saderla</b>
Principles of Chaos Theory in Solving Applied Geomechanics Problems <b>Volodymyr Bondarenko, Iryna Kovalevska, Mykhailo Petlovanyi, and Valerii Yakovenko</b>	Spatial-temporal Dynamics of Physical Processes in the Marine Environment of the Southern Baltic Sea - Numerical Modeling <b>Lidia Dzierzbicka-Głowacka, Maciej Janecki, Dawid Dybowski, Artur Nowicki, and Jaromir Jakacki</b>
Study of viscoelastic fourth-order Problem <b>Meflah. Mabrouk and Ataouat. Mohamed</b>	Stability of $\varphi_4$ -vector model: four-loop $\varepsilon$ expansion study <b>L. Ts. Adzhemyan and A. Kudlis</b>
Linear Inversive Generator of PRN's over $\mathbb{Q}$ (i) <b>Pavel Varbanets and Sergey Varbanets</b>	Temperature Blow-up Regimes in Nuclear Reactor Uranium Fuels in the Automodel Approximation <b>Sergiy A. Chernenchenko, Victor A. Tarasov, Sergiy I. Kosenko, Volodymyr M. Vashchenko, Mihaylo R. Shcherbyna and Vyacheslav V. Lavruhin</b>
Knowledge Transfer Platform - FindFISH <b>Lidia Dzierzbicka-Głowacka, Maciej Janecki, Dawid Dybowski, Artur Nowicki, Piotr Pieckiel, Michał Wójcik, and Jacek Wittbrodt</b>	On the Two-Week Predictability Limit Hypothesis: A Revisit of Lorenz's Modeling and Predictability Studies from 1960 to 2008 <b>Bo-Wen Shen, Roger A. Pielke Sr., Xubin Zeng, and Xiping Zeng</b>
<b>20:00 - 24:00</b>	
<b>Farewell Dinner</b> <b>Cretan food, music and dances</b>	
<b>End of the 3<sup>rd</sup> Day</b>	



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**10:00-11:30**

**SCS8**

**Special and Contributed Sessions**

**Room 1**

**Room 2**

**Cryptographic**

**Chaotic Applications /1**

A New Cryptographic Key Generator Algorithm Based on Chaos-based Selection Approach of Prime Numbers in Blum Blum Shub Generator  
**Fatih Özkaynak and Ahmet Can Çakıl**

Kolmogorov-Sinai Entropy: Connecting Two Types of Phase Space Divergences of *C. elegans* Locomotion  
**Susannah G. Zhang, Claire Dwyer, and Jenny Magnes**

A Robust Cryptographic Primitive Based on Chaotic System and Lava Lamp  
**Omer Kaya and Fatih Ozkaynak**

On the Applicability of Vilnius Oscillator as the Configurable Chaotic Logic Gate  
**Dmitrijs Pikulins, Sergejs Umnovs, Sergejs Tjukovs, and Juris Grizans**

Comparing Encryption and Decryption Message Using DES, AES and Chaos Algorithms to Secure Cloud Computing  
**Ismehene Chaouch, Anis Naanaa, and Sadok ElAsmi**

Dissipative Soliton Thermodynamics: "hot" Soliton versus "hot" Vacuum  
**Vladimir L. Kalashnikov, Evgeni Sorokin, Alexander Rudenkov, and Irina T. Sorokina**

Cryptanalysis of DNA-Inspired Encryption Algorithms: Uncovering Vulnerabilities and Security Challenges  
**Mehmet Ekinci and Fatih Özkaynak**

Optics and Energy Solar Systems Concentrators  
**Dimitrios Dellaportas and Anna Alexandratou**

SDR Implementation of Chaos-based Cryptosystem for Real-time Data Transmission  
**Housseem Benimam, Said Sadoudi, Djamal Teguig and Abdelraouf Azizi**

Influence of Moment on Processes Near and Inside the Crystalline Surface  
**Evelina V. Prozorova**

**11:30 - 12:00**

**Coffee Break**

**12:00-13:00**

**SCS9**

**Special and Contributed Sessions**

**Room 1**

**Room 2**

**Equations**

**Dynamics and Fractals**

On a System of Hadamard Fractional Differential Equations with Nonlocal Boundary Conditions on an Infinite Interval <b>Rodica Luca Tudorache and Alexandru Tudorache</b>	Fractal Structures in Electrolytic and Electroless Redox Systems <b>Lara Haroun and Mohammad Mridenand Rabih Sultan</b>
Analytical Solutions of a Hybrid KdV-Burgers Equation with Arbitrary Real Coefficients <b>Kuldeep Singh, Steffy Sara Varghese, Ioannis Kourakis</b>	Modeling of Separate Structural Objects in New Materials with a Fractal Structure <b>Valeriy S. Abramov</b>
Integrable Nonlinear PDEs as Evolution Equations derived from Multi-ion fluid Plasma Models <b>Steffy Sara Varghese, Kuldeep Singh, and Ioannis Kourakis</b>	Tensor Structure of Multifractals Synthesized by the Method of Brownian Point Dynamics in a Field of N Forces <b>Ivan G. Grabar and Yuri O. Kubrak</b>
<b>13:00-15:00</b> <b>SCS10</b> <b>Special and Contributed Sessions</b>	
<b><u>Room 1</u></b>	<b><u>Room 2</u></b>
<b>Chaotic Applications/2</b>	<b>Chaotic Applications/3</b>
Assessing the Impact of Renewable Energy Sources on Energy Economics: A Non-Linear Regression Analysis of Hellenic Energy Exchange Market Clearing Prices <b>Emmanuel Karapidakis, Yiannis Katsigiannis, Konstantinos Blazakis, Marios Nikologiannis, Georgios Matalliotakis, Georgios Stavrakakis, and Nikos Venianakis</b>	Brownian Motion: From Einstein to Mandelbrot. An Application to Characterize Cells <b>Ana María Korol and Bibiana Riquelme</b>
Portfolio 3D Analytics: Using Simulations to Explore Return, Risk and Diversification Dimensions <b>Yiannis Dimotikalis, Aristodimos Gkiaourakis and Christos H. Skiadas</b>	Concept-Drift Detection for Fusion Plasma Disruption Prediction <b>Teddy Craciunescu and Andrea Murari</b>
Influencers Detection in a Weighted Social Network based on an Evidential Centrality Measure <b>J. Leonel Rocha, S. Carvalho and B. Coimbra</b>	Experience Implementation of "LitAr" Material for Recovery after Severe Injuries <b>Alexander N. Valyaev, S.D Litvinov, and S.V. Petrov</b>
Energy Failure after Ischemic Stroke Accounts for Epileptic Seizures <b>Yangyang Yu, Yongchen Fan, and Ying Wu</b>	Gait Identification C. elegans Locomotion Jenny Magnes <b>Dimitris Tzezos, and Susannah Zhang</b>
BERTWitz: How Sentiment Score can Improve Portfolio Optimization via LSTM Predictions <b>Antonio Di Bari, Domenico Santoro and Giovanni Villani</b>	
<b>15:00- 15:30 LUNCH</b>	
<b>15:30-16:10</b> <b><u>Room 1</u> (PS4)</b>	

<b>Plenary Session</b> <b>Chair: Victor Law</b> <b>Speaker: Wieslaw M. Macek</b> <i><sup>1</sup>Institute of Physical Sciences, Faculty of Mathematics and Natural Sciences, Cardinal Stefan Wyszyński University, Warsaw, Poland</i> <i><sup>2</sup>Space Research Centre, Polish Academy of Sciences, Warsaw, Poland</i>  <b>Title: Testing for Markov Turbulence in Space Plasma on Kinetic Scales</b>
<b>16:10- 16:30 Coffee Break</b>
<b>16:30-17:00</b> <b><a href="#">Room 1</a></b> <b>Closing Ceremony</b>
<b>End of the Conference</b>

## ROOM 1

Meeting link:

<https://isast.webex.com/isast/j.php?MTID=m546c98467cd9519e47bb1ae1990f888f>

Meeting number:

2744 011 5456

Password:

nJZjyyzn452

Host key:

900550

Join by video system

Dial 27440115456@isast.webex.com

You can also dial 62.109.219.4 and enter your meeting number.

Join by phone

+44-20-7660-8149 United Kingdom Toll

Access code: 2744 011 5456

Host PIN: 1358

[Global call-in numbers](#)

# ROOM 2

Meeting link:

<https://isast.webex.com/isast/j.php?MTID=m91b65bc412365b536287f4fe04364c49>

Meeting number:

2741 564 5804

Password:

SMuXF8b7Ub8

Host key:

544812

Join by video system

Dial [27415645804@isast.webex.com](mailto:27415645804@isast.webex.com)

You can also dial 62.109.219.4 and enter your meeting number.

Join by phone

+44-20-7660-8149 United Kingdom Toll

Access code: 2741 564 5804

Host PIN: 1358

[Global call-in numbers](#)