

List of registered contributions (12.10.2016)

A

MAKHLOUF AMMAR	Periodic orbits of the fourth-order non-autonomous differential equations
Abul Kalam al Azad	Gradient based axon growth modelling of different cell types in the Xenopus tadpole spinalcord
Gerrit Ansmann	Surrogate analysis of weighted functional brain networks
Prof. Alain Arneodo	Replication domains are self-interacting structural chromatin units of human chromosomes
Peter Ashwin	Bifurcation, noise and rate-dependent tipping in open systems
Kenichi Arai	Mechanism to yield randomness in Galton Board
Eduardo G. Altmann	Non-monotonic effects of noise in chaotic scattering
G. Ambika	Amplitude Death induced by Environment
Suman Acharyya	Synchronization of coupled nonidentical systems
Roland Aust	Bifurcation analysis and modulation response of quantum dot lasers with external feedback
Markus Abel	Highly Nonlinear Dynamics in Thin Film convection
G. M. Ramirez Avila	Firefly Courtship: Females' Active Responses to the Synchronizing Males
Juan A. Almendral	Unveiling Protein Functions through the Dynamics of the Interaction Network
Kerstin Avila	The transition from decaying to spreading turbulence in pipe flow
Ana Achucarro	Topology in the sky: cosmic strings and other "defects"

B

Markus M. Becker	Modelling of microdischarges in asymmetric barrier discharges in argon
Stephan Bialonski	Natural Interaction Networks: Small-World or Not?
Sohrab Behnia	Image Encryption with chaotic map based on quantum mechanical approach
M. S. Benilov	Spots on electrodes of DC discharges: self-organization theory and its applications
Philip Bittihn	Dynamical response of cardiac tissue to electric field stimulation
J. J. Benjamin Biemond	Dynamical collapse of trajectories
Sebastian Berg	Synchronization based parameter estimation of excitable media
Tamas Bodai	A chaotically driven model climate: Extreme events and snapshot attractors
Christian Bick	Adaptation Methods for Chaos Control
Stefano Boccaletti	Emergence of modularity and heterogeneity out of synchronization of adaptive networks
Igal Berenstein	Response of Chaotic systems to unidirectional advective flow
David Bastine	Fragmentation Rates in Isotropic Turbulence
Hans A. Braun	The impact of individual neurons' dynamics on network synchronization
Izabella Benczik	Interplay between chemical and hydrodynamical leaking in chaotic systems

Bernd Blasius	Marine bioinvasion in the network of global shipping connections
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C

Hector Cruz	Nonlinear dynamics and subband tunneling in coupled quantum wells
Andrea A. Cimadoribus	Dansgaard-Oeschger events: tipping points in the climate system
Lock Yue Chew	Entanglement dynamics through local squeezing of initial separable states
Jorge Carballido	Pattern formation in active microemulsions: BZ-AOT system
Tsuyoshi CHAWANYA	Generic emergence of intermittent status transitions in a high-dimensional chaotic map system
Julyan Cartwright	Crystal Growth as an Excitable Medium
Massimo Cencini	Caustics and intermittency in turbulent suspensions of heavy particles
Jens Christian Claussen	Up-Down state stimulation of a cortical model for slow waves in sleep: Switching and phase diagram
Francesca Chilla	Rayleigh-Bénard turbulent convection : some recent results.
Ricardo Egydio de Carvalho	Introducing dissipation in order to gain energy

D

Syamal Kumar Dana	Design of coupling for multiattractor dynamics
Vasilis Dakos	Expecting the Unexpected: Indicators of Resilience as Early-Warnings for Critical Transitions
Gábor Drótos	Chaotic saddles in a gravitational field: The case of inertial particles in finite domains
Thomas Dahms	The symmetry of group and cluster synchronization
Tomas Dohnal	Numerical Evans Function Method for Stability of Solitons in the periodic NLS
Partha Sharathi Dutta	Bifurcations in Nonsmooth Maps with Singularity
Partha Dutta	Long-term dynamics of competitive interaction in a tri-trophic food web

E

Yulia Emelianova	Oscillations and synchronization in the chain of three coupled self-oscillating oscillators
Ivan Erofeev	Digital photo-control of cardiac tissue
Martin Esmann	Quantum dynamics of few ultra-cold atoms in a periodically shaken double-well superlattice

F

Petra Friederichs	Mesoscale weather extremes and probabilistic forecast approaches
Flavio H. Fenton	In real-time simulations of 2D and 3D cardiac dynamics using GPUs
Jürgen Fuhrmann	Numerical Modeling of CO Oxidation on Pt Surfaces Coupled with Convective Mass Transport
Martin Falcke	Modelling the diadic cleft
Naoya Fujiwara	Information spreading and synchronization in mobile networks
Graham Feingold	Pattern Formation in the Aerosol-Cloud-Precipitation System

Christian Finke	On the role of intrinsic neuronal dynamics for relay synchronization
Fred Feudel	Convection patterns in a central forced spherical fluid shell under microgravity conditions
Jan Freund	Ecological communities structured by fluctuations
Martin Falcke	Modelling the elemental steps of excitation contraction coupling
R. Friedrich	Stochastic Nonlinear Dynamics in the Inverse Cascade of Twodimensional Turbulence
Itzhak Fouxon	Unexpected quasi-stationarity of a universal attractor for granular gases in long channels

G

Lucas Goehring	Wavy cracks in drying colloidal films
Lucas Goehring	The dynamics of patterned ground in permafrost
Svetlana Gurevich	Destabilization of localized structures in reaction-diffusion systems induced by delayed feedback
José Mario Vicensi Grzybowski	Isochronal synchronization of time-delay and delay-coupled chaotic systems
Mark Groves	Existence and stability of fully localised three-dimensional gravity-capillary solitary water waves
Lendert Gelens	Dynamical behavior of semiconductor ring lasers: Multistability and excitability
Neelima M Gupte	Avalanche transmission and failure rates in branching hierarchical networks
Ksenia Guseva	Aggregation and fragmentation dynamics for a mixture of inertial particles in a turbulent flow.
Kristian Gustavsson	Caustics and relative velocities in turbulent aerosols
Celso Grebogi	MULTI-LAYERED NETWORKS AND EMERGENCE OF SPATIO-TEMPORAL ORDER
Paul Glendinning	Multistability near grazing-sliding bifurcations
Johannes Greber	Rheology and bifurcations of single dumbbells and dumbbells suspensions in shear flows

H

Hoai Nguyen HUYNH	Self-organized critical model on fractal lattices of dimension between 1 and 2
Christoph Honisch	Estimation of drift and diffusion coefficients from sparsely sampled time series data
Tim Homeyer	Investigations of cavity noise generation on a cylinder
Daniel Han-Kwan	Stability analysis of the confinement of a tokamak plasma
Holger Hennig	The nature and perception of fluctuations in human musical rhythms
Sven Heiligenthal	Strong and weak chaos in nonlinear networks with time-delayed couplings
Tímea Haszpra	Volcanic ash in the free atmosphere: A dynamical systems approach
Holger Hauptmann	Dynamics of a driven Bose-Einstein condensate
Pavel Hrabák	Time-headway Distribution of Lattice Gas Traffic Model with Nearest-particle Interaction
Jost von Hardenberg	Large-scale structures in fingering convection

Jaroslav Hlinka	Relation of structure and dynamics in complex systems: consequences for graph-theoretical analysis
Betti Hartmann	Black holes & solitons: Applications to Condensed Matter
Markus Holzinger	Bifurcations to cross-stream segregation of soft particles in shear flow

I

Olga B. Isaeva	WAYS OF BIRTH AND DESTRUCTION OF ROBUST HYPERBOLIC CHAOTIC ATTRACTORS
Theodora Ioannidou	Monopoles and the Weyl Equation

J

Thomas Jüngling	Experimental variable-delay feedback control
HAIDER HASAN JAFRI	Phantom Instabilities in adiabatically driven system: Dynamical Sensitivity to Numerical precision
R. Jaimes-Reategui	Nonlinear optical synapse
Natalia B. Janson	Delayed feedback effects in deterministic and stochastic systems
Wolfram Just	Pyragas-Schöll-Fielder control: on the experimental relevance of bifurcation analysis in ...
BOEUF jean-Pierre	Self-organization and dynamics of plasma filaments under microwave or low frequency excitation
Mike R Jeffrey	Non-determinism in the limit of nonsmooth dynamics

K

A. Kozlov	Synchronization and patterns in 2D coupled map lattices
Oliver Kamps	Extracting model equations from noisy spatio-temporal data
A.V. Keshelava	Stabilization of hyperbolic dynamics in a non-autonomous system
Christian Kuehn	Nonlocal Generalized Models
Alexandra Krasnova	Dynamics and thermodynamics of Fermi-accelerated particles
Richard Kollar	A simple connection of the Evans Function and the Krein Signature
Pavel V. Kuptsov	Lyapunov exponents fluctuations as a tool for studying high-dimensional chaos
Marie-Therese Kuhnert	Graph-Theoretical Approaches to Functional Epileptic Brain Networks
Sabine H.L. Klapp	Feedback control of driven colloidal systems
Oliver Kamps	Extracting model equations from noisy spatio-temporal data
Miki U. KOBAYASHI	Manifold Structures of Unstable Periodic Orbits and Periodic Windows in Chaotic Systems
Henrik Kalisch	Balance laws for Boussinesq equations and applications
Alexander Komech	On Global Attraction to Quantum Stationary States
Juergen Kurths	Network of Networks and the Climate System
Hiroshi Kori	Synchronization and oscillation regularity in coupled noisy oscillators: synchronization suppresses
Kazue Kudo	Theoretical Analysis and Phase Correction of Super-Bloch Oscillations
David Kleinhans	Direct and iterative estimation of drift and diffusion coefficients of stochastic processes

Rajat Karnatak	Cross predation stabilizes interacting prey-predator populations
Katharina Krischer	Regular and chaotic subharmonic cluster patterns in globally coupled oscillatory media
Aneta Koseska	Rhythm generation mechanisms in biological systems

L

Dmytro Leshchenko	Optimal Perturbed Rotation Deceleration of a Rigid Body in a Resistive Medium
Leonhard Lücken	Two-Cluster Bifurcations in globally pulse-coupled Oscillators
Bernd Lehle	Analysis of stochastic time series spoiled by strong, exponentially correlated measurement noise
Ying-Cheng Lai	Uncovering complex-network topologies and dynamical systems using time series
Alexander Loskutov	Billiards with time-dependent boundaries and some their properties
Judith Lehnert	Dynamics of delay-coupled complex networks
Michael Langner	Investigation and modeling of human driver behavior based on Langevin analysis
I. Leyva	Complex networks in the evaluation and modeling of brain injury recovery
Cristobal Lopez	Three-dimensional Oceanic Coherent Structures
Benjamin Lindner	Sources of interval correlations in neural spike trains
Stefan Luther	Low-energy Control of Cardiac Fibrillation
Marc Lefranc	Robustness of circadian clocks to daylight fluctuations
Valerio Lucarini	Stochastic perturbations to dynamical systems: a response theory approach
Valerio Lucarini	Numerical convergence of the block-maxima approach to the Generalized Extreme Value distribution
Valerio Lucarini	Symmetry-break, mixing, instability, and low frequency variability in a minimal Lorenz-like system
Klaus Lehnertz	Synchronization phenomena in the human epileptic brain
Anke Lindner	Purely-elastic instabilities in serpentine channels
Meike List	Boson Stars: Non-Topological Solitons Coupled to Gravity
Carlos A. Lugo	Cardiac Alternans induced by recovery from inactivation
Bernard Legras	Lyapunov exponents and barrier effects in geophysical fluid dynamics
Laura Tedeschini Lalli	Quasi-conservative Henon: sequence of coexisting sinks, as $b > 1$
Steven Lade	Early warning signals: a generalised modelling approach

M

Bogdan-Vasile Maticoc	Some existence and regularity results for stratified water waves
Nicholas Moloney	Extreme value statistics in the solar wind
Ehud Meron	Gradual regime shifts in spatially extended ecosystems
Kaustubh Manchanda	Effect of Heterogeneity on Neuronal Cellular Automata Networks
Alessandro Moura	Interacting particles in open chaotic flows
Ana M Mancho	The Lagrangian description of aperiodic flows: applications in the Ocean and the Atmosphere.
Elbert E. N. Macau	Pinning Synchronization Control Performance

Hidetoshi Morita	Collective non-stationary flow in two-dimensional fluid
Yulia Maslova	Solid state laser control towards regular and chaotic nonlinear dynamics
Nikolaos Moshonas	Dynamics of a three degrees of freedom Hamiltonian system describing Vector soliton evolution under
Tsuyoshi Mizuguchi	Role of unstable symmetric solutions in symmetry restoring processes
Bernhard Mehlig	Ergodic and non-ergodic clustering of inertial particles
Erik Martens	Speed of Evolution in Spatially Extended Populations
Takahito Mitsui	Two types of torus-doubling phenomena in a quasiperiodically driven neuron model
Karin Mora	Dynamics of Discontinuous Difference Equations
Yair Mau	Wavenumber locking in parametrically forced systems

N

Izaak Neri	The totally asymmetric exclusion process on networks
Viktor Novicenko	Phase response curve for systems with time delay
Barbara Niethammer	Self-similarity in kinetic mean-field models for coarsening phenomena
Eulalie Joelle Ngamga	Network approach for unveiling subtle transitions in dynamical systems
Robert Niedl	Studying clock reactions in microflow
Judith Neugebauer	Species invasion in caves

O

Iryna Omelchenko	Nonlocally coupled networks: Spatial chaos and chimera states
Gaspar Orriols	How complex the oscillations of a dynamical system may be?
Kenta Odagiri	Phenomenological model for ordered onions under shear flow

P

Andrey Pototsky	Tracing delay-induced synchronization in stochastic networks
Andrea Parmeggiani	Stochastic walking along a network of molecular highways
Alexander Pisarchik	Rogue waves and multistability
Nirmal Punetha	Phase flip in chaotic oscillators coupled with asymmetric delays
Antonio Politi	Chaos in the Hamiltonian mean field model
Ulrich Parlitz	Synchronization and dynamic patterns in network analysis of transient spiral waves
Christopher Prohm	Control of Inertial Microfluidics
Awadhesh Prasad	Occurrence of mixed-synchronization in counter-rotating nonlinear coupled oscillators
Ulrich Parlitz	Dynamics of a driven oscillator carrying a freely sliding mass
Ulrich Parlitz	Signal analysis and classification using ordinal patterns
Martin Paulig	Chaos synchronization in hierarchical networks
Felipe Pereira	Interactions between air bubbles in viscous fluids
Kestutis Pyragas	Phase lead synchronization in unidirectionally coupled chaotic systems
Julyan Cartwright or Oreste Piro	Geometric Mixing, Peristalsis, and the Geometric Phase of the Stomach
Julyan Cartwright or Oreste Piro	Geometric phases in discrete dynamical systems

Julyan Cartwright or Oreste Piro	Nonlinear dynamics of ice growth and charge production in thunderstorms
Przemyslaw Perlikowski	Why two clocks synchronize: Energy balance of the synchronized clocks
Milan Palus	Complex networks of interacting stochastic dynamical systems: Discerning connectivity from dynamics
Thomas Pfohl	Flow at low Reynolds numbers: from single filaments to unicellular parasites

Q

R

M. Carmen Romano	The role of limited resources in protein synthesis
Matias Rafti	Traveling Interface Modulations in a Catalytic Surface Reaction
Daniel Ritterskamp	Seizure like states of a neuronal system with synaptic plasticity
Frank Raischel	Principal axes for stochastic dynamics
Craig G. Rusin	Engineering Synchronization in Sets of Rhythmic Elements
Vassilis Rothos	Interaction of atomic dark-bright solitons with localized impurities
Craig G. Rusin	Engineering Synchronization in Sets of Rhythmic Elements
Jakob Runge	Identifying Coupling Mechanisms in Multiple Time Series by Causal Conditioning
Philip Rinn	Wind energy conversion - a stochastic response problem
Mike Reeks	Segregation of particles in incompressible random flows: singularities, intermittency, and random...
Pawel Romanczuk	Active Brownian particles with internal fluctuations - from individual to collective dynamics
Ram Ramaswamy	Switching between oscillation states in coupled stochastic repressors
Rajarshi Roy	Synchronization in Real Networks: Control and Optimization

S

Belyakin Sergei	Stabilization of hyperbolic chaos by the Pyragas method
Eckehard Schöll	Controlling neuronal wave dynamics by nonlocal and time-delayed feedback
R. Sevilla-Escoboza	Control of attractor preference by low-pass filtered noise in a multistable fiber laser
Kenneth Showalter	Synchronization in Populations of Excitable and Oscillatory Particles
Michel Speetjens	Lagrangian transport phenomena in 3D laminar flows
Eugen SCARLAT	Sensitivity decay in crisis dynamic as revealed by the exchange rate series analysis
Golo Strickmann	Stochastic point vortex dynamics
Larionov Sergei	Intermittency as a universal characteristic of the complete chromosome DNA sequences of eukaryotes.
Manish Dev Shrimali	Phase transition in the absence of time delays in coupled oscillators
Dmitry Savin	On the rupture of Feigenbaum lines in two coupled Henon maps
Dmitry Savin	A dissipative system with Hamiltonian critical behaviour
Jan Schumann-Bischoff	State and parameter estimation using unconst

Norikazu Suzuki	Finite data-size scaling of clustering in complex network of earthquake
Alexey V. Savin	The dynamics of the web map with weak dissipation
J. C. Sartorelli	Dynamics of an imperfect parametrically excited double pendulum
Bjoern Schelter	Graphical Models for Time Series: Direct Directed Interactions in Networks
Linda Sommerlade	Optimal detection of interactions in nonlinear dynamical systems: A study based on cross-spectral
Irene Sendiña-Nadal	Integration vs. Segregation in Functional Brain Networks
Eugen SCARLAT	Multifractal analysis of financial series based on structure function and singular measure algorithm
Guido Schneider	Nonlinear waves in periodic media
Pooja Rani Sharma	Targeting fixed-point Solutions in nonlinear oscillator
Amit Sharma	Experimental realization of mixed-synchronization in counter-rotating coupled oscillators
Yoshitaka Saiki	Reconstruction of chaotic saddles and classification of unstable periodic orbits of the Kuramoto-Siv
Ruedi Stoop	Is the Origin of Intelligence Rooted in a Higher Language Class? A Nonlinear Dynamics approach
Michel Speetjens	Lagrangian transport phenomena in 3D laminar flows
James R. T. Seddon	Surface nanobubbles
Jens Starke	Self-Organization Concepts in Modular Robotics
Tom Solomon	Burning invariant manifolds and reaction fronts in laminar flows

T

Alessandro Torcini	Collective chaos in pulse-coupled neural networks
Umeshkanta Singh Thounaojam	Modulated logistic maps on random networks
A. Tilgner	Scaling laws for double diffusive fingers
Kazumasa A. Takeuchi	Extensivity and sub-extensivity of chaos in globally-coupled systems
Toshiya Takami	Coffee Patterns Generated by Slow Dynamics
Marco Thiel	Adaptive Multiple-Time-Scale Networks: Theory and Application
Hisa-Aki Tanaka	Theory and applications of optimal entrainment for
Ludmila Turukina	Synchronization of forced coupled van der Pol oscillators
Kin'ya Takahashi	Study on aerodynamic sound of small air-reed instruments
Marc Timme	Adaptive Chaos Control for Robot Control

U

V

PAUL VALLE	BOUNDING THE LONG-TIME DYNAMICS OF A CANCER IMMUNOTHERAPY MODEL
Miklós Vincze	The effect of localized geothermal heating on deep water formation
Martin Vejmelka	Sensitivity of centrality measures to estimation of network structure from multivariate time series
Jürgen Vollmer	Super-long transients in spatio-temporal dynamics

W

Marco Winkler	Pulsed chaos synchronization with adaptive coupling strengths
Xingang Wang	Network growth under the constraint of synchronization stability
Niels Wessel	Cardiovascular Regulation During Sleep Quantified By Symbolic Coupling Traces
Andrea Wolff	Diffusion-limited reactions on surfaces with continuous distributions of binding energies
Astrid S. de Wijn	Do chaotic internal degrees of freedom trigger or destroy long jumps in molecular diffusion?
Anna Wawrzaszek	Stability of the Generalized Lorenz System
Michael Wilkinson	Random tumbling
G.S. Weiss	A free boundary approach to two-dimensional steady capillary gravity water waves
Daniel Wetzel	GINZBURG-LANDAU ANALYSIS OF PATTERNS IN A BENTHIC NUTRIENT-MICROORGANISM SYSTEM

X

Y

Hongliu Yang	Hyperbolicity and effective degrees of freedom of extended dynamical systems
Azamat Yeldesbay	Phase resetting of a time-delayed system
Serhiy Yanchuk	Delay-induced spiking patterns emerging in a ring of coupled neurons
James A. Yorke	The Many Facets of Chaos

Z

Steffen Zeeb	Attractor dimension at the transition to chaos synchronization
Anna Zakharova	Analysis of biological systems via stochastic bifurcations
Vladimir Zykov	Spiral wave selection in excitable media with a phase wave at the wave back
Alexey Zaikin	Speed-dependent decision making in genetic networks
Michael Zaks	A Mechanism Of Birhythmicity In Ensembles of Coupled Oscillators
Jens Zahnow	Aggregation and fragmentation of fractal-like inertial particles in random flows
Walter Zimmermann	Rayleigh-B'enard convection in nanofluids or in spatially modulated containers

Number of registered data sets: 257!