Programme of PhysCon 2015 Sessions and Presentations Session Order ID Title

Session	Order	ID	Title	Registrant
			Special Session: Control and Estimation for Dynamical Systems I, Chairs: Prof. Tatiana Filippova and F	Prof. Alexander Sesekin
	1	[44]	State Estimation for Uncertain Systems with Arbitrary Quadratic Nonlinearity	Prof. Tatiana F. Filippova
T1A		[72]	Impulse Position Control Algorithms in Systems with Delay	Prof. Alexander Sesekin
IIA	3		Observations' Control for Statistically Uncertain Systems	Prof. Boris Ananiev
	4	[83]	Time Optimal Self-triggered Feedback Control	Mr. Jorge Silva
	1	[404]	Analysis and Control of Physical Systems I, Chair: Prof. Acar Savaci	De Desire Besie von
	2	-	Bumpless Transfer for A Discrete-Time Switched System with Robust Control On Qualitative Analysis of Mechanical Systems	Dr. Danica Rosinova Prof. Valentin Irtegov
T1B	3		Predictive Control of Nonlinear Processes Using Fuzzy Hammerstein Model	Prof. Stefan Kozak
	4		LMI-based Robust Control Design for Motion Systems	Dr. Alena Kozakova
			Special Session : Control of Synchronization Patterns in Complex Networks, Chair: Prof. Alexander Fra	adkov and Prof. Eckehard Scholl
T2A		[107	Thermalization in Feedback Controlled Fermi-Pasta-Ulam Lattice	Prof. Alexander Fradkov
			Adaptive Control of Cluster Synchronization in Delay-coupled Networks	Ms. Judith Lehnert
			Synchronization in Coupled Organ Pipes	Mr. Jakub Sawicki
	_		Controlled Synchronization in Two Dynamical Systems with Sector Bounded Nonlinearities	Mr. Sergei Plotnikov
	5	[/8]	Control of Synchronization in Delay-Coupled Neural Heterogeneous Networks Analysis and Control of Physical Systems II, Chair: Prof. Serdar Ozoguz	Mr. Sergei Plotnikov
Т2В	1	[108]	Active Fault Tolerant Gyromoment Control of the information Satellites	Prof. Yevgeny Somov
	l .	-	Fault Tolerant Digital Attitude Control and Animation of a Satellite Motion	Prof. Yevgeny Somov
		-	Decentralized Model Predictive Control Based on I/O Plant Model	Dr. Alena Kozakova
	4	[87]	investigation of Dynamic Stability of Elastic Aileron of Wing in Subsonic Flow	Dr. Andrey V. Ankilov
	5	[97]	Application of Singular Space-Time Transformation to Impulsive Pest Management	Dr. Maxim Staritsyn
			Special Session : Time Series Analysis of Complex Systems, Chair: Prof. Ugur Tirnakli	
	1 2		Probabilistically Constraining Proxy Age-depth Models within A Bayesian Hierarchical Reconstruction Method An Approach to Apply a Irragulady Sampled Time Society without interspelation	Dr. Johannes Werner Mr. Deniz Eroglu
Т3А	3		An Approach to Analyze Irregularly Sampled Time Series without interpolation Entropy of Weighted Recurrence Plots	Mr. Thomas Peron
			Forecasting Transitions in Systems with High Dimensional Stochastic Complex Dynamics	Prof. Henrik Jeldtoft Jensen
	_		The Super Model forecasting Method Applied to the Imperfect Model Scenario	Dr. Carsten Grabow
	6		Transient Coupling Relationships of the Holocene Australian Monsoon	Dr. Thomas Stemler
			Dynamical Systems for Applications, Chair: Prof. Guanrong Chen	
	1	[61]	Characteristic Control Oriented Waveform Design and Reconstruction in A Radar System	Dr. Wen Hu
ТЗВ			Experimental Evaluation of Synchronization-based Data Transmission Scheme for The Multipendulum Setup	Prof. Boris andrievsky
	3		On-Line Filtering of Sunlight Caustic Waves in Underwater Scenes in Motion	Eng. Emanuel Trabes
		-	A New Random Number Generator with A New Cellular Automata Model	Mr. Emre Goncu
	6		Medicine Delivery Strategy over The Airlines Network Against Virus Spreading Control of UAV formation over A Finite Data Rate Packet Erasure Channel with Adaptive Coder	Ms. Rui Wang Prof. Boris andrievsky
		[05]	Special Session: Control and Estimation for Dynamical Systems II, Chairs: Prof. Tatiana Filippova and	
F4.0	1	[88]	Parameter Uncertainty in State Constrained Optimal Control Problems	Prof. Fernando Pereira
	2		Optimal Control of Hybrid Systems with Polynomial Impulses	Dr. Maxim Staritsyn
F1A	3	[98]	Monotonicity of Lyapunov Type Functions for Measure-driven Differential Systems	Dr. Olga Samsonyuk
	4	[43]	$Minimax\ Approach\ Problem\ with\ incomplete\ information\ for\ Two-level\ Hierarchical\ Nonlinear\ Discrete-time\ Dynamical\ System$	Prof. Andrey Shorikov
			Chaotic and Complex Dynamics, Chair: Dr. Selcuk Kilinc	
	1		Displacement in Space of The Equilibria of Unstable Dissipative Systems	Mr. Luis Javier Ontanon
F1B	2		A Unique Signum Switch for Chaos and Hyperchaos	Dr. Chunbiao Li
			Speed Gradient Driving of Neuron Spiking State Feedback Control of Chaotic Systems and Electronic Implementations	Dr. Sergey Borisenok Prof. Gunyaz Ablay
		[0/]		Chair: Dr. Mattia Frasca
	1	[64]	Experimental investigation of Adaptive Synchronization of Two Rossler Circuits	Dr. Mattia Frasca
	2	[60]	Robustness of Chimera States with Respect to Noise	Prof. Eckehard Schoell
F2A	3	[35]	Complex Dynamics in Quantum Dot Light Emitting Diodes	Prof. Kais A. Al Naimee
	4		Chimera-like Dynamics and Metastability in The C.Elegans Brain Network	Dr. Johanne Hizanidis
	5	[99]	Uni-directional Synchronization and Frequency Difference Locking induced by A Heteroclinic Ratchet	Dr. Ozkan Karabacak
	1	[40]	Complex Networks, Chair: Differential Coalitional Game in Conditions of Uncertainty for Networks	Dr. Andrey Tarakanov
	2		Distribution of Different Network Parameters in Synchronization Optimized Networks	Dr. Suman Acharyya
F2B	3		Chaos Synchronization in Nonlinear Networks with Time Delayed Couplings	Prof. Wolfgang Kinzel
	4		Bursting Dynamics in A Population of Oscillatory and Excitable Josephson Junctions	Dr. Chittaranjan Hens
	5	[29]	Synchronization Effects Related to Neighborhood Similarity in A Random Network of Non-identical Oscillators	Mr. Elbert E. N. Macau
			Special Session : Chaotic and Complex Dynamics and its Applications I, Chair: Dr. Elbert E. N. Macau	
	1		A New Model for Complex Dynamics in A DC Glow Discharge Tube	Dr. Riccardo Meucci
F3A	2		Phase Control of Entangled States	Dr. Riccardo Meucci
	3 4		Chimeralike States in A Network of Oscillators under Attractive and Repulsive Global Coupling Community Detection in Complex Networks via Dynamics	Dr. Prodyot Kumar Roy Mr. Elbert E. N. Macau
			Characterizing The Complexity of Time Series Network Graphs: A Simplicial Approach	Dr. Neelima Gupte
		[10]	Synchronization, Chair: Dr. Ozkan Karabacak	Di. Necuma dapte
F3B	1	[82]	Estimates of Frequency of Periodic Regimes for Phase Synchronization Systems with Distributed Parameters	Ms. Natalia Utina
	2	[40]	Chaos Control and Synchronization in Quantum Dot Light Emitting Diodes	Prof. Kais A. Al Naimee
	3	[52]	Anticipating Synchronization Between Sampled-data Master and Discrete-time Slave Chaotic Systems	Mr. Ramazan Yeniceri
			Stochastic Resonance in Chua's Circuit Driven by Alpha-stable Noise	Ms. Serpil Yılmaz
	5	[73]	Onset Condition and Transient Behaviors of Noise-induced Bifurcation	Mr. Zhigang Li
	4	[0:-	Special Session: Chaotic and Complex Dynamics and its Applications II, Chair: Dr. Elbert E. N. Macau	De Arbura Marki
	1 2		Organization in The initial Condition Space and Identification of Solutions in The Mackey-Glass Delayed Model	Dr. Arturo Marti Dr. Andrey Tarakanov
F4A	3		Superstability Conditions Based Robust Stabilization of A Class of Uncertain Hyperchaotic Systems Taming Complex Networks	Prof. Sudeshna Sinha
	4		Taming Complex Networks Seaching Heteroclinic Orbits in Time-delayed Fully-Connected Oscillators Networks	Prof. Sudesnna Sinna Dr. Diego Paolo Ferruzzo Correa
	5		Dynamics of Lowdimensional Ensambles of Phase Systems with Unidirectional Coupling	Mr. Kirill Aleshin
			Beam and Plasma Dynamics, Quantum Entanglement, Chair:	
F4B	1	[10]	Modeling of Plasma Breakdown Conditions in Iter	Dr. Alexander Ovsyannikov
	2	[14]	Optimization of Beam Dynamics in The Axially Symmetric Potential Field	Dr. Alexander Ovsyannikov
	3		Tracking with Target Attractor Feedback in Superconducting Josephson Junction	Dr. Sergey Borisenok
	4		On The Effect of Correcting The Electro-hydraulic Servo Drive On The Dynamics of The "Servo Rive-Mass" System	Mr. Vladimir Metrikin
	5	[19]	Successive Passage of Atom in A Cavity in Interacting Fock Space	Prof. P. K. Das