PhysCon 2017 - Detailed Sessions and Presentations - July 18, 2017, Tuesday

Session	ID	Order	Title	Registrant	Time
			Multistability and Its Control	A. N. Pisarchik	08.30
	10	1	Bistability in neural oscillators induced by asymmetric electrical coupling	Prof. Alexander N. Pisarchik	00.00
	17	2	Dynamics of multistability states and formation of chimera in multilayers network	Dr. Nikita Frolov	
T1A	18	3	The dynamics of EEG brain patterns in the process of bistable image perception Theory of noise-induced intermittency in bistable dynamical systems	Dr. Vadim Grubov Dr. Olga Moskalenko	
114	31	5	Multistate intermittency in erbium-doped fiber laser	Dr. Maksim Zhuravlev	
	34	6	Intermittency during bistable visual perception of ambiguous images	Dr. Maria Kurovskaya	
	82	7	The nonlinear association analysis of the EEG brain data in the process of bistable image perception	Dr. Anton Selskii	
	159	8	Study of multistable visual perception using the synergetic model	Dr. Rider Jaimes-Reátegui	10:45
			Algebraic Aspects of Control of Dynamical Systems and Applications	M. I. Garcia-Planas	11.15
	4	1	On exact controllability of singular linear dynamical systems	Prof. M. Isabel Garcia-Planas	
T2A	5	2	Un consensus controllability and observability of multi-agent linear systems	Dr. Sonia Tarragona Mr. Antonio Chango Espirareo	
	8	4	Perfurbation analysis of serial composite systems under contragredient equivalence	Ms. Tetiana Klimchuck	
	47	5	Linearization and optimal control flow in electromagnetic ball suspension system (SKYPE-CALL)	Mr. Emmanuel Niyigaba	13.15
			Quantum Ontimal Control	E Caruso E Cataliotti	
	123	1	Discovering new physics strategies with citizen science driven, human-computer hybrid optimization	Dr. Robert Heck	14:45
	160	2	Optimally controlled two-qubit gate with trapped atoms	Dr. Matthias Mueller	
	158	3	A practical, unitary simulator for non-Markovian complex processes	Dr. Felix Binder	
T3A	73	4	Quantum optimal control for quantum technologies	Prof. Christiane Koch	
	PDP	с 6	Control and transfer of entanglement in a system of coupled micro-toroidal resonators	Dr. Francesco Campaioli	
	106	7	Quantum optimal control of atom motional states in single and double-well potentials	Dr. Marie Bonneau	
	140	8	Numerical Approximation in Optimal Control of Two-Level Quantum Systems	Dr. Cutberto Romero-Meléndez	16.45
			Quantum Ontimal Control	E Coruso E Cataliotti	10.40
T4A	72	8	The Role of Unbound Wavefunctions in Energy Quantization and Quantum Bifurcation	Mr. Kuo Chung Hsuan	17:15
			Dynamics and Regulation of Complex Interaction Models	G Innocenti	
	54	1	Agents internal mechanisms induce consensus in evolutionary games on networks	Dr. Dario Madeo	08:30
	65	2	Model reduction in Biochemical Reaction Kinetics	Prof. Laura Giarrè	
T1B	69	3	Pigs stealing and wolfed down piglets: the influence of kleptoparasitism on a simple trophic network	Dr. Massimo F. D. Materassi	
	/6	4	Metriplectic formalism: friction and much more	Dr. Massimo F. D. Materassi Drof, Duogio, Fongelli	
	146	6	Complex dynamics in a vehicle platoon with poplinear drag and ACC controllers	Prof. Giacomo Innocenti	
	149	7	Stability of solution of a hydroelasticity problem for viscous liquid	Dr. Petr Velmisov	10.45
_			Analogias between Long Delayed and Creatielly Extended Cystems	E Marina C Ciacomalli	10.40
			Analogies between Long-Delayeu and Spatially Extended Systems		
	43	1	Patterns in networks of excitable systems with connection delays	Prof. Serhiv Yanchuk	11:15
	43 55	1 2	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states	Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi	11:15
T2B	43 55 64	1 2 3	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers	Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes	11:15
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T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Graph spectral identification of the XY model on complex networks Chaotic and Complex Dynamics and its Applications Dufing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Projective Synchronization Based on Amplitude Control Some aspects of a parameter ismple pendulum dynamics	Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli	11:15 13:15 14:45 16:45 08:30
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T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 113 152 99	1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Graph spectral identification of the XY model on complex networks Chaotic and Complex Dynamics and its Applications Dufing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Neaje Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collision solutions on non-networking central force problem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system	Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati	11:15 13:15 14:45 16:45 08:30
T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 113 152 99	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 7 8 1 2 3 4 5 6 7 7 8 1 2 3 4 5 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Graph spectral characterization of the XY model on complex networks Chaotic and Complex Dynamics and its Applications Duffing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collision solutions on non-newtonian central force problem Transient synchronisation in yeast cell populations of intermediate density Transitor from normal to super diffusion in a one-dimensional impact system	Prof. Serbi Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati	11:15 13:15 14:45 16:45 08:30 10:45 11:15
T2B T3B T1C	43 55 64 85 127 PDP 98 97 92 116 124 139 154 23 48 52 101 113 152 99 29 29 39	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Chaotic and Complex Dynamics and its Applications Dufing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Near-collision solutions on non-networking networking Spectral of a parameter is simple pendulum dynamics Near-collision solutions on non-networking in the mediate density Transition from normal to super diffusion in a one-dimensional impact system Control of panic behavior in a non identical network coupled with a geographical model Control of panic behavior in a non identical network coupled with a geographical model Control of panic behavior in a non identical network coupled with a geographical model Control of panic behavior in a non identical network coupled with a geographical model	Prof. Serbiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati Mr. Guillaume Cantin Mr. Guillaume Cantin	11:15 13:15 14:45 16:45 08:30 10:45 11:15
T2B T3B T1C	43 55 64 85 127 PDP 98 97 92 116 124 139 154 23 48 52 101 113 152 99 29 39 51	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Graph spectral identification of the XY model on complex networks Chaotic and Complex Dynamics and its Applications Dufing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Near-collision solutions on non-newtonian central force problem Transient synchronization Ises cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system Control of panic behavior in a non identical network coupled with a geographical model Control of panic behavior in a non identical network coupled with a geographical model Control of patient formation in hough adaptive phase lags	Prof. Serbiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede	11:15 13:15 14:45 16:45 08:30 10:45 11:15
T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 113 152 99 29 39 51 87	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Graph spectral identification of networks with diffusive coupling Control of the dynamics of boolean networks Graph spectral identification and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collision solutions on non-networking or intermediate density Transition from normal to super diffusion in a one-dimensional impact system Synchronisation in a non identical network coupled with a geographical model Control of stategy for symmetric circular formations of mobile agents with collision avoidance Control istrategy for symmetric circular formations of mobile agents with collision avoidance Control of stategy for symmetric circular formations of mobile agents with collision avoidance Control of stategy for symmetric circular formations of mobile agents with collision avoidance Control of states in networks with hierarchical connectivities	Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petiti Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inyna Omelchenko	11:15 13:15 14:45 16:45 08:30 10:45 11:15
T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 154 23 48 52 99 29 39 51 87 7122	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Chaotic and Complex Dynamics and its Applications Dufing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collisis oslutions on non-networking or force problem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system Control of pance behavior in a non identical network coupled with a geographical model Control strategy for symmetric circular formations of mobile agents with collision avoidance Control strategy for symmetric circular formations of mobile agents with collision avoidance Control ing synchronization in networks of nonlinear circuits based on memistors	Prof. Serhiy Yanchuk Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inya Omelchenko Dr. Matia Frasca	11:15 13:15 14:45 16:45 08:30 10:45 11:15
T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 97 154 23 48 52 101 113 152 99 29 39 51 87 112 138 87 112	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Graph spectral characterization of the XY model on complex networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collisio solutions on non-newtonian central force problem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system Sucharonise therworks with diffusion of networks control strategy for symmetric circular formations of mobile agents with collision avoidance Control of panic behavior in a non identical network coupled with a geographical model Control strategy for symmetric circular formations of mobile agents with collision avoidance Control ing synchronization metworks of nonlinear circuits based on memistors Stability of Distributed Parameter Synchronization Transien synchronization in hetworks of nonlinear circuits based on memistors Stability of Distributed Parameter Synchronization Systems with Disturbances	Prof. Serhiy Yanchuk Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inya Omelchenko Dr. Mattia Frasca Prof. Vera Smirnova Dr. Dirty Kasatirin	11:15 13:15 14:45 16:45 08:30 10:45 11:15
T2B T3B T1C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 154 23 48 52 99 29 39 51 87 112 138 150	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Graph spectral characterization of the XY model on complex networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collisin solutions on non-networking of force problem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system Control of pance behavior in a non identical network coupled with a geographical model Control strategy for symmetric circular formation of mobile agents with collision avoidance Controlling synchronization methodized normations of mobile agents with collision avoidance Control strategy for symmetric circular formations of nobile agents with collision avoidance Controlling synchronization in networks of nonlinear circuits based on memistors Stability of Distributed Parameter Synchronization Systems with Disturbances Hierarchical organization of synchronization behavior in adaptive networks Control of pance behavior in a non identical network coupled with a geographical model Control strat	Prof. Serhiy Yanchuk Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inya Omelchenko Dr. Mattia Frasca Prof. Vera Smirnova Dr. Dmitry Kasatkin	11:15 13:15 14:45 16:45 08:30 10:45 11:15 13:15
T2B T3B T1C T2C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 20 113 152 99 29 30 51 87 112 138 150	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Graph spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Graph spectral characterization of the XY model on complex networks Publed characterization of the XY model on complex networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collision solutions on non-networkniam diffusive couplem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to supe at diffusion in a on-dimensional impact system Control of paties of a parametric simple pendulum dynamics Control of panic behavior in a non identical network coupled with a geographical model Control strategy for symmetric circular formations of mobile agents with collision avoidance Controling synchronization in networks of nonlinear interwediate Spychronization adaptive phase lags Control of adaptive synchronization of system swith collision avoidance Control frame synchronization in networks of nonlinear circuits based on memistors Stability of Distributed Parameter Synchronization Systems with Disturbances Hierarhical organization of synchronization in adaptive networks	Prof. Serhiy Yanchuk Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inyna Omelchenko Dr. Mattia Frasca Prof. Vera Smirnova Dr. Demitry Kasatkin	11:15 13:15 14:45 16:45 08:30 10:45 11:15 13:15 13:15
T2B T3B T1C T2C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 154 23 48 52 99 29 39 51 87 112 138 150 42	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Controlling chimera states by local parameter modification Control of multidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Graph spectral characterization of the XY model on complex networks Control of pattern formation in bistable networks Graph spectral characterization of the XY model on complex networks Publex chimera states in analyzing dynamics of boolean networks Projective Synchronization Based on Amplitude Control Some aspects of a parametric simple pendulum dynamics Near-collision solutions on non-networking intermediate density Transition from normal to supe at guileptical force problem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system Control of panic behavior in a non identical network coupled with a geographical model Control strategy for symmetric circular formations of mobile agents with collision avoidance Controling synchronization in networks of nonlinear circuits based on memistors Stability of Distributed Parameter Synchronization System swith Disturbances Hierarhical organization of synchronization in adaptive networks Synchronization of two Hindmarsh-Rose neurons with thresholds coupling (SKYPE-CALL)	Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Strah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inyna Omelchenko Dr. Mattia Frasca Prof. Vera Smirnova Dr. Dmitry Kasatkin M.Frasca, E.Schoell Dr. L.J. Ontañón-García	11:15 13:15 14:45 16:45 08:30 10:45 11:15 13:15 13:15
T2B T3B T1C T2C	43 55 64 85 127 PDP 95 98 97 92 116 124 139 154 23 48 52 101 154 23 48 52 99 29 39 51 87 112 138 150 42	1 2 3 4 5 6 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1	Patterns in networks of excitable systems with connection delays Network dynamic emulated by large delay systems: from brain-inspired computing to chimera states Nonlocality Induces Knotted Chains of Localized Structures in Lasers Delayed feedback coherence resonance chimeras Repulsion and diffusion of localized states in an excitable system with delay Reconstructing the manifold of the dynamics of a semiconductor laser with long-delayed optoelectronic feedback Control of Self-Organized Patterns in Complex Networks Control of multidimensional systems on complex network Robust chimera states by local parameter modification Control of nultidimensional systems on complex network Robust chimera states in superconducting metamaterials Desynchronise abnormal neuron behaviour to control epileptic seizures Turing patterns on time-varying networks Spectral identification of networks with diffusive coupling Control of pattern formation in bistable networks Graph spectral characterization of the XY model on complex networks Projective Synchronization Based on Amplitude Control Some aspects of a parameter in approximation of the Applications Duffing Phase-locked Loop: equilibrium and phase jitter Characteristic polynomial method for analyzing dynamics of boolean networks Projective Synchronization Based on Amplitude Control Some aspects of a parameter in pendulum dynamics Near-collision solutions on non-ewtonian central force problem Transient synchronisation in yeast cell populations of intermediate density Transition from normal to super diffusion in a one-dimensional impact system Control of panic behavior in a non identical network of nonlinear circuits based on memristors Stability of Distributed Parameter Synchronization Systems with Disturbances Hierarchical ordynchronous behavior in adaptive phase lags Chimera states in networks with hierarchical connectivities Implementation of adaptive synchronization Systems with Disturbances Hierarchical of synchronization synchronisation in networks of nonlinear circuits based	Prof. Serhiy Yanchuk Prof. Serhiy Yanchuk Dr. Bogdan Penkovskyi Dr. Julien Javaloyes Dr. Anna Zakharova Dr. Stephane Barland Dr. Carlos Quintero-Quiroz D.Fanelli, T.Carletti, J.Hizanidis, N.Kouvaris Dr. Philipp Hoevel Ms. Giulia Cencetti Dr. Johanne Hizanidis Prof. Timoteo Carletti Mr. Julien Petit Dr. Alexandre Mauroy Dr. Nikos Kouvaris Dr. Sarah De Nigris E. Macau, H. Cerdeira, S.Dana Dr. Cristiane M. Batistela Prof. Fangyue Chen Dr. Chunbiao Li Dr. Jose C Sartorelli Prof. Elbert Macau Dr. Marcus Hauser Dr. André L.P. Livorati M.Frasca, E.Schoell Mr. Guillaume Cantin Mr. Vander Freitas Dr. Markus Brede Dr. Inyna Omelchenko Dr. Mattia Frasca Prof. Vera Smirnova Dr. Dmitry Kasatkin M.Frasca, E.Schoell Dr. L.J. Ontarión-García	11:15 13:15 14:45 16:45 08:30 10:45 11:15 13:15 13:15

PhysCon 2017 - Detailed Sessions and Presentations - July 19, 2017, Wednesday

Session	ID	Order	Title	Registrant	
W1A	21 26 38 53 68 71 83 90 96	1 2 3 4 5 6 7 8 9	Control, State Estimation and Optimization of Dynamical Systems Arbitrary Disturbance Rejection in the Tracking Problem for Flat Multi-Link Manipulator Wave Phenomena of the Kuramoto-Sivashinsky equation Parameter optimization for estimation of linear non-stationary systems On control problem with constraints of asymptotic character Entropy methods of management of gaussian stochastic systems State Estimation Approaches for Control Systems with State Constraints and Uncertainty Reachable Sets for a Class of Nonlinear Impulsive Control Systems Approximation and relaxation of mechanical systems with discontinuous velocities Algorithm for solving two-level hierarchical minimax program control problem in nonlinear discrete-time dynamical system	B. Ananyev, T. Filippova Mr. Yury Rassadin Prof. Zhaosheng Feng Prof. Boris Ananyev Dr. Artem Baklanov Mr. Garnik Gevorgyan Prof. Tatiana F. Filippova Dr. Oxana Matviychuk Dr. Maxim Staritsyn Prof. Andrey Shorikov	08:30
			Control State Estimation and Optimization of Dumamical Systems		10:45
W2A	104 107 135 136 141 144 145	1 2 3 4 5 6 7	Hamiltonian constructions in solutions of optimization problems in navigation The stability of discontinuous solutions of bilinear systems with delay A reach set mpc scheme for the cooperative control of autonomous underwater vehicles Impulsive Control Systems with Trajectories of Bounded p-Variation Optimization and control theory in shell models of turbulence Non-linear pi and pid regulators in mechanical system control Control of a cart with a dissipative oscillator	Prof. Nina Subbotina Prof. Alexander Sesekin Eng. Rui Gomes Dr. Maxim Staritsyn Prof. Silvio Gama Prof. Aleksandr Andreev Prof. Joor Ananievski	11:15
	151	ð	MPC based coordination for the sustainable management or production factors in agriculture	Prot. Fernando Lobo Pereira	13:15
W3A	14 20 57 79 93 109 131	1 2 3 4 5 6 7	MEMS, Nanotechnologies and Sensors Mass sensing of microbeads using a weakly coupled cantilever Design and Manufacturing Relative Humidity Sensor by Photonic Crystal Fibers Mass sensing utilizing sensoriess self-excitation of piezoelectric device Effect of carrier competition on the performance of double quantum dot solar cell Method of additional inductance selection for full-bridge boost converter Intercalation and expansion of novel graphite bisulfate compounds Sensories Concentrated for Outmand Constit Seusoperies Surface	F. Marino Mr. Takumi Nakamura Dr. Aseel Mahmood Mr. Yudai Tanaka Prof. Kais A. Al Naimee Dr. Olga Slita Eng. Angela Longo Mr. Budan Birawkay	14:45
	131	'	Sensoness Generalized mini Optimal Control of a wagnetic Suspension System		16:45
W1B	3 9 16 22 32 37 49 60 77	1 2 3 4 5 6 7 8 9	Control and Optimization in Physics and Engineering Synthesis of safe controllers for nonlinear systems using dynamic programming techniques Asymptotic control theory for a closed string Synthesis of a multifunctional tracking system for electromechanical control plants On the hybrid stability of the collocated virtual holonomic constraints based walking design Signal Processing in Astroinertial Attitude Determination System for the Space Robots Robust control design for linear systems with exogenous and system disturbances On the Determination of Parametric Linear Quadratic Regulators for Parametric Systems Decentralized controller design for a class of interconnected systems On stability of the electromagnetic suspension rotro in space of control narameters	A Fradkov, A. Ovseevich, R.Meucci Mr. Jorge Silva Prof. Alexander Ovseevich Prof. Sergey Kochetkov Prof. Sergej Celikovsky Prof. Yevgeny Somov Dr. Kirill Zheleznov Dr. Graziano Chesi Mr. Yuezu Lv Dr. Sernev Malkin	08:30
		5		A Fredlay, A Quessiak D Maussi	10:45
W2B	81 105 108 114 115 118 119 120	1 2 3 4 5 6 7 8	Approximate assessment of the work of adiabatic processes for idealized cycles Algorithm for compensation of residual imbalance of a flexible rotor on active magnetic bearings Phase Control : Comparison between Pulsed and Sinusoidal Perturbations A locally optimal way to approach q-gaussian distribution SG-algorithm in the problem of the elastic-plastic waveform propagation in solids SG-dynamical models for non-equilibrium thermodynamic systems Automatic scaling in 3d map building for slam Depth range adaptation to variable scale in 3d-scenarios for dense slam	Dr. Delfino Ladino-Luna Dr. Vasily Litvinov Prof. Riccardo Meucci Mr. Dmitry Shalymov Mr. Dmitry Shalymov Mr. Dmitry Shalymov Dr. Mario Jordán Dr. Mario Jordán	11:15
			Control and Optimization in Physics and Engineering	A.Fradkov, A. Ovseevich, R.Meucci	14:45
W3B	125 128 134 142 147 157 126	1 2 3 4 5 6 7	Dynamics modeling for subcritical reactor controlled by linear accelerator Optimal Control Strategies for Legged Locomotion Inverse kinematics in ultralight UAV control problem with additional on-board microcomputer Parametric-resonance-based control of buoy cardanic system for a beacon signalization Nonlinear Laws for Guidance and Attitude Control of an Agile Land-survey Satellite Beam dynamics optimization in a linear accelerator Dynamical control of tripartite entangled states	Dr. Anna Golovkina Dr. Fernando Lobo-Pereira Mr. Konstantin Amelin Dr. Mario Jordán Prof. Yevgeny Somov Ms. Maria Mizintseva Dr. José A. Roversi	16:45
W1C			Nonlinear Dynamics, Complex Systems and Applications	M.V. Shamolin, R. Grigoriev	08:30
	2 15 25 50 56 58 66 70 74	1 2 3 4 5 6 7 8 9	Cases of integrability corresponding to the motion of a pendulum in the three-dimensional space Third Order Superharmonic Resonance and Spatial Motion of a String Control of limit cycle bifurcations in the Kukles cubic system An experimental study on the out-of-plane motion under the external primary resonance in strings The Study of Nonlinear Differential Systems Identification of the parameters of the Maxwell model using self-excited oscillation Injection Locking of High-P Quantum Dot Microlasers Memory effects, transient growth, and wave breakup in a model of paced atrium Experimental evidence of detecting hidden frequency in chaos communications	Prof. Maxim V. Shamolin Mr. Kohei Mitaka Dr. Valery A. Gaiko Mr. Sungyeup Kim Prof. Valentin Irtegov Mr. Yuming Luo Ms. Elisabeth Schlottmann Prof. Roman Grigoriev Ms. Banaz Rasheed	10:45
	121	4	Nonlinear Dynamics, Complex Systems and Applications	M.V. Shamolin, R. Grigoriev	11:15
W2C	121 122 129 133 156 162 PDP	1 2 3 4 5 6 7	Heterogeneity tacilitates Persistent Infection Evolutionary Dynamics Control via its CML Conversion Spectral Profiling of Writing Process Control of stochastic gene expression by a nonlinear biological oscillator Filtered optical feedback in quantum dot light emitting diode Study of SH-SYSY Cancer Cells Response to Ionizing Radiation by Vibrational Spectroscopies The algorithm for the analysis of combined chaotic-stochastic processes	Mr. Promit Moitra Prof. Ivan Zelinka Dr. Zeev Volkovich Dr. Samuel Zambrano Prof. Kais A. Al Naimee Prof. Maria Lepore Dr. Ina Taralova	
					13:15