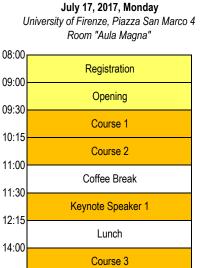
PhysCon 2017 - Technical Program Overview



Course 4

Coffee Break

Keynote Speaker 2

Keynote Speaker 3

Free Time

IPACS General Assembly

Welcome Reception

14:45

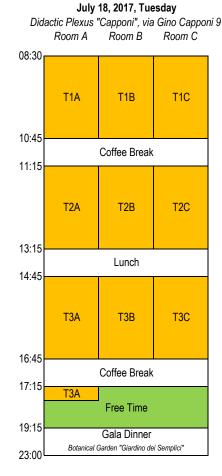
15:30

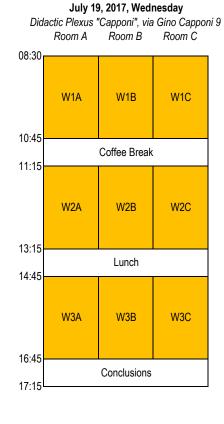
16:00

16:45

17:30

19:00





Short Courses on Basics of Physics of Control and Recent Advancements

Course 1: Cybernetical Physics-2017

Alexander Fradkov (Inst. for Problems of Mech. Eng., St. Petersburg, Russia)

Course 2: Quenching and Reviving Oscillations in Complex Networks

Juergen Kurths (Humboldt University, Berlin, Germany)

Course 3: Controlling partial synchronization patterns: chimera states

Eckehard Schöll (Technische Universität, Berlin, Germany)

Course 4: Bellerophon States: Coexistence of Quantized, Time Dependent, Clusters in Globally Coupled Oscillators

Stefano Boccaletti (ISC-Institute for Complex Systems, Italy)

Keynote Speakers

Keynote Speech 1: Remote synchronization in complex networks

Mattia Frasca (Università di Catania, Italy)

Keynote Speech 2: History of nonlinear oscillations theory

Jean-Marc Ginoux (LSIS, CNRS, UMR 7296, France)

Keynote Speech 3: Thermodynamics of information and control: the twin legacies of James Clerk Maxwell

John Bechhoefer (Simon Fraser University, Canada)

Sessions

W1B, W2B, W3B	Control and Optimization in Physics and Engineering	(regular)
T2C, T3C	Synchronization and Complex Networks	(regular)
W1C, W2C	Nonlinear Dynamics, Complex Systems and Applications	(regular)
W3A	MEMS, Nanotechnologies and Sensors	(regular)
T2A	Algebraic Aspects of Control of Dynamical Systems and Applications	(special)
T2B	Analogies between Long-Delayed and Spatially Extended Systems	(special)
T1C	Chaotic and Complex Dynamics and its Applications	(special)
T3B	Control of Self-Organized Patterns in Complex Networks	(special)
W1A, W2A	Control, State Estimation and Optimization of Dynamical Systems	(special)
T1B	Dynamics and Regulation of Complex Interaction Models	(special)
T1A	Multistability and Its Control	(special)
T3A, T4A	Quantum Optimal Control	(special)

PhysCon 2017 - Condensed Sessions OverView

July 18, 2017, Tuesday								July 19, 2017, Wednesday									
	Didactic Plexus "Capponi", via Gino Capponi 9								Didactic Plexus "Capponi", via Gino Capponi 9								
time	order	Room A	ID	Room B	ID	Room C	ID		time	order	Room A	ID	Room B	ID	Room C	ID	J
08:30 -									08:30 -								
00.00	1	Multis	10	DynReg	54	ChaCpx	23		00.00	1	CntSta	21	ConOpt	3	NonLin	2	i
	2	Multis	17	DynReg	65	ChaCpx	48			2	CntSta	26	ConOpt	9	NonLin	15	i
	3	Multis	18	DynReg	69	ChaCpx	52			3	CntSta	38	ConOpt	16	NonLin	25	
	4	Multis	27	DynReg	76	ChaCpx	101			4	CntSta	53	ConOpt	22	NonLin	50	
	5	Multis	31	DynReg	91	ChaCpx	113	T1		5	CntSta	68	ConOpt	32	NonLin	56	W1
	6	Multis	34	DynReg	146	ChaCpx	152			6	CntSta	71	ConOpt	37	NonLin	58	i
	7	Multis	82	DynReg	149	ChaCpx	99			7	CntSta	83	ConOpt	49	NonLin	66	
	8	Multis	159							8	CntSta	90	ConOpt	60	NonLin	70	i
10:45 -	9								10:45 -	9	CntSta	96	ConOpt	77	NonLin	74	
				Coffe Bre	eak					Coffe Break							
11:15 -					40	0 1	20		11:15 -		0.101	404				101	
	1	Algebr	4	Analog	43	Synchro	29			1	CntSta	104	ConOpt	81	NonLin	121	i
	2	Algebr	5	Analog	55	Synchro	39			2	CntSta	107	ConOpt	105	NonLin	122	i
	3	Algebr	7	Analog	64	Synchro	51			3	CntSta	135	ConOpt	108	NonLin	129	
	4	Algebr	8	Analog	85	Synchro	87	T2		4	CntSta	136	ConOpt	114	NonLin	133	W2
	5	SkypeCall	47	Analog	127	Synchro	112			5	CntSta	141	ConOpt	115	NonLin	156	i
	6			Analog	PDP	Synchro	138			6	CntSta	144	ConOpt	118	NonLin	162	
	7					Synchro	150			7	CntSta	145	ConOpt	119	NonLin	PDP	i
13:15 -	8								13:15 -	8	CntSta	151	ConOpt	120			
				Lunch	1					Lunch							
14:45 -	1	QuaOpt	123	ConNet	95	SkypeCall	42		14:45 -	1	Mems	14	ConOpt	125			
	2	QuaOpt	160	ConNet	98	SkypeCall	42			2	Mems	20	ConOpt	128			i
	3		158	ConNet	97	SkypeCall	40			3	Mems	57					
	4	QuaOpt QuaOpt	73	ConNet	92						Mems	79	ConOpt ConOpt	134 142			
	4 5	QuaOpt	110	ConNet	116			T3		4 5	Mems	93	ConOpt	142			W3
	6	QuaOpt	PDP	ConNet	124					6	Mems	109	ConOpt	157			i
	7	QuaOpt	106	ConNet	139					7	Mems	131	ConOpt	126			i
	8	QuaOpt	140	ConNet	154					8	IVICITIS	131	Сопорі	120			
16:45 -	0	QuaOpt	140						16:45 -	0							
	Coffe Break										Conclusi	ons					
17:15 -	1	QuaOpt	72					T4	17:15 -								
				Free Tir	ne												
40.45																	
19:15 -				Gala Din	ner												
00.00			Botanica	al Garden "Giardi		emplici"											
23:00 -																	

Chairs	Sessions	Type	Acronym
A.Fradkov, A. Ovseevich, R.Meucci	Control and Optimization in Physics and Engineering	regular	ConOpt
M.Frasca, E.Schoell	Synchronization and Complex Networks	regular	Synchro
M.V. Shamolin, R. Grigoriev	Nonlinear Dynamics, Complex Systems and Applications	regular	NonLin
F. Marino	MEMS, Nanotechnologies and Sensors	regular	Mems
M. I. Garcia-Planas	Algebraic Aspects of Control of Dynamical Systems and Applications	special	Algebr
F. Marino, G.Giacomelli	Analogies between Long-Delayed and Spatially Extended Systems	special	Analog
E. Macau, H. Cerdeira, S.Dana	Chaotic and Complex Dynamics and its Applications	special	ChaCpx
D. Fanelli, T. Carletti, J.Hizanidis, N.Kouvaris	Control of Self-Organized Patterns in Complex Networks	special	ConNet
B. Ananyev, T. Filippova	Control, State Estimation and Optimization of Dynamical Systems	special	CntSta
G. Innocenti	Dynamics and Regulation of Complex Interaction Models	special	DynReg
A. N. Pisarchik	Multistability and Its Control	special	Multis
F. Caruso, F. Cataliotti	Quantum Optimal Control	special	QuaOpt