

Tutorials		AMCOS Conference							
Mon, 19/03/18		Tue, 20/03/18		Wed, 21/03/18		Thu, 22/03/18		Fri, 23/03/18	
	Registration	8:30 AM	Registration						
9:00 AM	Tutorial I	9:00 AM	Welcome remarks	9:00 AM	Cancelled: Keynote Lecture I:	9:00 AM	Invited Speaker	9:00 AM	Invited Speaker
	Arkady Pikovsky	9:10 AM	Invited Speaker		Damián H. Zanette		Yamir Moreno		Jordi Garcia-Ojalvo
	Hierarchy of synchronization models		Cristina Masoller		Synchronization in micromechanical oscillators		Synchronization of Kuramoto oscillators in complex networked systems		Emergence of oscillations in bacterial populations
			Network dissimilarity measure and application to brain network differentiation	9:40 AM	CT: Nicolas Fourcaud-Trocme	9:40 AM	CT: Giulia Cencetti	9:40 AM	Invited Speaker
			CT: Claudius Gros		Evolution of slow and fast rhythm networks during learning of an olfactory discrimination task		Dynamical invariance on complex networks		Dante Chialvo
			Embodied locomotion through self-organized frequency locking	10:10 AM	Invited Speaker	10:10 AM	Invited Speaker		Life at the edge, complexity and criticality in biological function
10:30 AM	Coffee**	10:30 AM	Coffee*	10:45 AM	Fluctuation-driven plasticity allows for flexible rewiring of neuronal assemblies	10:45 AM	Emergent complex network geometry and frustrated synchronization		Diversity in Science: exploring the strength of research collaborations
11:00 AM	Tutorial II	11:00 AM	Invited Speaker		Coffee*		Coffee*		Coffee*
	Michael Rosenblum		Diego Pazó	11:15 AM	Invited Speaker	11:10 AM	CT: Géza Ódor	11:10 AM	CT: Alexander Schlemmer
	Synchronization approach to data analysis		Recent findings on the Winfree model		Florian Mormann		Effects of heterogeneity in power-grid network models		Characterizing cardiac arrhythmia using multi-dimensional permutation entropy
			CT: Franziska Peter		Perception and memory at the level of single neurons in the human medial temporal lobe	11:40 AM	CT: Otti D'Huys	11:40 AM	Keynote Lecture II:
			Emergence of a collective mode in the finite size Kuramoto model	11:55 AM	Invited Speaker		Dynamics of networks with time-varying connections		Leon Glass
			Invited Speaker		Raffaella Burioni	12:10 PM	Invited Speaker		Geometric aspects of the dynamics and diagnosis of cardiac arrhythmias
		Peter Ashwin		Neuronal avalanches in cortex dynamics and the synchronization transition		Albert Diaz-Guilera			
12:30 PM	Lunch*	12:45 PM	Lunch*	12:45 PM	Lunch*	12:45 PM	Lunch*	12:35 PM	Poster Prize & Conclusion
2:00 PM	Tutorial III	2:00 PM	CT: Valérie Voorsluis	2:00 PM	CT: Arindam Saha	2:00 PM	CT: Denis Goldobin		
	Ralph G. Andrzejak		Nonlinear dynamics and fluctuation-induced behavior in a photosensitive oscillatory reaction		Emergence of riddled basins of attraction in delay-coupled FitzHugh-Nagumo oscillators		Synchronization of coupled active rotators by common noise		
	A brief introduction to nonlinear time series analysis	2:30 PM	Invited Speaker	2:30 PM	Invited Speaker	2:30 PM	CT: Rico Berner		
			Hiroya Nakao		Juan Restrepo		Hierarchical clusters in networks of adaptively coupled oscillators		
			Phase reduction and synchronization of rhythmic spatiotemporal patterns		Uncovering low-dimensional macroscopic chaotic dynamics of large finite size complex systems				
		3:05 PM	Coffee*	3:05 PM	Coffee*				
3:30 PM	Coffee*	3:30 PM	CT: Soheila Samiee	3:30 PM	CT: Igor Franovic				
			Phase-amplitude coupling and epileptogenesis in an animal model of mesial temporal lobe epilepsy		Switching dynamics in networks of stochastic rate-based neurons		Excursion (16:30)		
4:00 PM	Tutorial IV	4:00 PM	Invited Speaker	4:00 PM	Invited Speaker				
	Aneta Stefanovska		Gustavo Deco		Tilo Schwalger				
	Understanding real-world systems from the perspective of time-varying dynamics		Brain Songs: discovering the relevant timescale of the human brain		Finite-size effects in the mesoscopic dynamics of spiking neural networks				
			CT: Cristina Martinez	4:40 PM	CT: Helmut Schmidt		Conference Dinner (20:00)		
			Using nonlinear time series analysis to assess the interplay between epilepsy and sleep		Network mechanisms underlying the role of oscillations in cognitive tasks				
5:30 PM		5:15 PM - 7:30 PM	Poster Session w/ Wine & Cheese	5:15 PM - 7:30 PM	Poster Session w/ Wine & Cheese				

*Lunches and Coffee breaks were provided by the UPF through the COSMOS consortium.