

# VIII GEFENOL Summer School on Statistical Physics of Complex Systems

IFISC, Palma de Mallorca, Spain, 2-13 July 2018

## Program

First Week	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-10:15	Participants arrival	T. Galla <i>Stochastic delay systems</i>			
10:15-10:45		Coffee Break - Poster session			
10:45-12:00		M. Sales-Pardo <i>Bayesian inference in complex networks</i>			
12:00-13:00		R. Vicente <i>Deep learning from a statistical physics perspective.</i>			
13:00-13:15	Lunch	Lunch and discussion time			
13:15-14:30					
14:30-15:00	Opening				
15:00-15:30	T. Galla, <i>Stochastic delay systems.</i>	Student's short talks Session I	Seminar R. Guimerà	Seminar M. Akbarzadeh	Hands on Bayesian inference in <i>cmplx. net.</i>
15:30-16:00		Break	Walk to A. Turmeda building		
16:00-16:10	Coffee Break - Poster session	Presentation about IFISC	Hands on Stochastic delay systems	Hands on Deep learning <i>stat. phys. perspective</i>	Hands on Deep learning <i>stat. phys. perspective</i>
16:10-16:20					
16:20-16:30	M.Sales-Pardo <i>Bayesian inference in cmplx. net.</i>	Student's short talks Session II			
16:30-17:30		Poster session Snacks	Hands on Bayesian inference in <i>cmplx. net.</i>	Hands on Stochastic delay systems	
17:30-17:40	R. Vicente <i>Deep learning stat. phys. perspective.</i>				
17:40-18:30					
18:30-18:50					

Seminar: Roger Guimerà, SEESLab, Universitat Rovira i Virgili. *Statistical Physics of a Rational Machine Scientist*

Seminar: Meisam Akbarzadeh, Dept. of Transportation Engineering, Isfahan University of Technology. *Some Applications of Complex Network Methods in Urban Transportation Networks.*

Antoni M. Alcover building, Room 5. Lectures.

IFISC, Seminar room. Posters & Coffee Breaks.

Anselm Turmeda building, Classroom 7. Hands-on sessions.

Cafeteria Son Lledó Building. Lunches.

Second Week	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-10:15		C. Castellano <i>Spreading phenomena in networks</i>			
10:15-10:30		Coffee Break - Poster session			
10:30-10:45	Seminar D. Gomila	P. Tierno <i>Geometric frustration in soft matter systems</i>			
10:45-11:30					
11:30-12:00	Coffee Break				
12:00-13:00	D. Sánchez <i>Transp. in nanosystems</i>	D. Sánchez <i>Transport in nanosystems</i>			
13:00-13:15					
13:15-15:00	Lunch and discussion time				
15:00-16:00	C. Castellano <i>Spreading phenomena in networks</i>	Seminar M. Cornelles	Seminar R. Toral	Seminar R. López	
16:00-16:10	P. Tierno <i>Geometric frustration in soft matter sys.</i>	Walk to Anselm Turmeda building			
16:10-17:00		Hands on <i>Spreading phenomena in networks</i>	Hands on <i>Transport in nanosystems</i>	Hands on <i>Geometric frustration in soft matter sys.</i>	
17:00-17:30	Poster session Snacks	Hands on <i>Geometric frustration in soft matter sys.</i>	Hands on <i>Spreading phenomena in networks</i>	Hands on <i>Transport in nanosystems</i>	
17:30-18:30					
18:30-18:50					

Seminar: Damià Gomila, IFISC (CSIC-UIB). *Reduction of Power Grid Fluctuations by Using Smart Devices*

Seminar: Miguel Cornelles, IFISC (CSIC-UIB). *Chaotic time-series prediction and attractor reconstruction using machine learning.*

Seminar: Raúl Toral, IFISC (CSIC-UIB). *Noise-induced transitions vs. Noise-induced phase transitions*

Seminar: Rosa López. IFISC (CSIC-UIB). *Heat Transfer in Interacting Quantum Dot Systems*

Antoni M. Alcover building, Room 5. Lectures.

IFISC, Seminar room. Posters & Coffee Breaks.

Anselm Turmeda building, Classroom 7. Hands-on sessions.

Cafeteria Son Lledó building. Lunches.