Programme

Key-note talk | Contributed talk | Workshop

time	Saturday 27/8	Sunday 28/8	Monday 29/8	Tuesday 30/8	Wednesday 31/8	Thursday 1/9	Friday 2/9	Saturday 3/9
09:00 - 10:50	**Opening**	**Rothos V.** Introduction to continuous dynamical systems	**Vlachos L.** Complexity in astrophysical systems	**Boudourides M.** Boundary Stimulations of Social Influence Networks	**Halley J.** Complex dynamics in ecological populations and communities	**Argyrakis P.** Complex networks	**Vallianatos F.** From fracture to earthquake physics: A non extensive statistical physics view	**Basios V.** Biological Information Processing: the role of Complexity & Chaos revisited
10:50 - 11:10	Break - coffee							
11:10 - 13:00	**Kevrekidis I.** No equations, no variables, no parameters, no space: Data, and the modeling of complex systems	**Antoniou I.** Complexity, entropy, information, interdependencies, networks	**Drakopoulos V.** Introduction to the geometry of fractals and chaos	**Papadimitriou E..** Fractals in Geophysics	**Karakasidis Th.** Identification of states and correlations in spatiotemporal phenomena	**Aifantis E.** Complexity in Material Mechanics Across Scales and Disciplines	**Bezerianos A.** Complexity in Medicine: From Intracellular Networks to Brain Networks	**Tzovaras D.** Big Data Analytics
13:00 - 14:30	Break - Lunch							
14:30 - 15:20	**Voyatzis G.**	**Ioannidis E.** (till 15:00) Opinion and knowldegse networks	**Drosos L.** Complex dynamics and statistics in one dimensional Hamiltonian lattices	**Kugiumtzis D.**	**Kyrtsou C.**	**Zinoviadis Ch.** Hierarchy and Expansiveness in Two-Dimensional Subshifts of Finite Type	**Klados M.** Complexity in brain: functional connectivity networks at mathematical cognition	**Closing**
15:20 - 15:50		**Kasimatis Th.** (15:00-15:30) Periodic and ring chimaira states of coupled integrated-fired oscillators	**Mitsokapas E.** Statistical mechanics and entropy of complex systems		Complexity and interdependence in financial markets	**Kalosakas G.**	**Lab**	
15:50 - 16:20		**Kaloudis K.** (15:30-16:00) A Bayesian approach for dynamic noise reduction	**Chorozoglou D.** Randomizing networks from multivariate time series		**Kalimeris K.** Approaching traveling water waves of large amplitude			
16:20 - 16:30	Break							
16:30 - 17:00			**Science Debates?**	**Lab**	**FameLab ?**	**Lab**		
17:00 - 17:30								

Introduction to discrete dynamical systems

Nonlinear time series analysis

Modeling of drug release

Analysis of multivariate time series

Analysis of univariate time series

The percolation problem and solution with smart simulations