

CSAS 2016 Schedule



Day 1 : Monday 01-02-2016

09:00-09:30	Registration	
09:30-10:00	Inauguration by Director IIT Madras	
10:00-10:30	Coffee break	
	Topic	Speaker
10:30-11:30	Predicting critical transitions in spatial-temporal systems	Surovyatkina E, Potsdam Institute for Climate Impact Research
11:30-12:00	Divisibility patterns of natural numbers on a complex network	Ambika G, IISER Pune
12:00-13:30	Photo session & Lunch Break	
13:30-14:00	Thermodynamics vs. Dynamics: Equilibrium vs. Nonequilibrium	Verma M K, IIT Kanpur
14:00-14:30	Extreme events and approach to network failure	Santhanam M S, IISER Pune
14:30-15:00	An improved algorithm for characterizing low and high dimensional chaotic attractors	Ritupan Sarmah, Tezpur University
15:00-16:30	Coffee break -Poster session	
16:30-17:00	A multi-scale approach to acoustic emission during plastic deformation: Intermittent character during conventional yield, Potevin-Le Chatelier and Luders bands	Jagadish Kumar, Utkal University
17:00-17:30	Predicting transitions in thermoacoustic systems	Sujith R I, IIT Madras
19:00	Conference dinner	



Day 2 : Tuesday 02-02-2016

	Topic	Speaker
09:00-10:00	Role of symmetry breaking in the collective dynamics of networks of coupled nonlinear oscillators	Lakshmanan M, Bharathidasan University
10:00-10:30	Pattern formation and proportionate growth in growing sandpiles	Dhar D, TIFR Bombay
10:30-11:00	Coffee break	
11:00-11:30	Constructive role of heterogeneity in coupled dynamics	Dana S K, IICB Kolkata
11:30-12:00	Restoration of rhythmicity in diffusively coupled dynamical networks	Senthilkumar, IISER Thiruvananthapuram
12:00-13:30	Lunch break	
13:30-14:00	Intermittent plastic deformation of small volume systems	Ananthakrishn G, IISc Bangalore
14:00-14:30	Population dynamics of an active bacterial colony	Perlekar P, TIFR Hyderabad
14:30-15:00	Settling, collisions, coalescences of inertial particles in turbulent flows	Ray S S, TIFR Bangalore
15:00-15:30	Non-linear behaviour of a coupled reactor separator system under different control strategies	Pushpavanam S, IIT Madras
15:30-16:00	Coffee break	
16:00-16:30	Diversity in bacteria-virus ecosystems is facilitated by weak defences against viruses	Krishna S, NCBS Bangalore
16:30-17:00	Survival probability distribution of a sample space reducing stochastic process	Yadav AC, Central University, Haryana
17:00-17:30	Random fibre bundle model: an improved scheme to maximise the strength	Sen P, University of Calcutta
17:30-18:00	TBA	Jensen M, Niels Bohr Institute, University of Copenhagen



Day 3 : Wednesday 03-02-2016

	Topic	Speaker
09:00-10:00	Networks in Biology: Regulation and misregulation	Ramaswamy R, JNU Delhi
10:00-10:30	Bacteria farming enhances <i>C. elegans</i> population growth	Shashi Thutupalli, NCBS Bangalore
10:30-11:00	Coffee break	
11:00-11:30	Imposing order by inducing chaotic traps: A new paradigm for controlling driven dynamical systems	Sitabhra Sinha, IMSc Chennai
11:30-12:00	Criticality in cell differentiation	Bose I, Bose Institute Kolkata
12:00-13:30	Lunch break	
13:30-14:00	The principle of self organization in controlling diseases - A computational perspective	Namboori K, Amrita University
14:00-14:30	A simplified model for monsoon dynamics	Apte A, TIFR Bangalore
14:30-15:00	Abrupt transitions in ecological systems	Guttal V, IISc Bangalore
15:00-15:30	Mean-field dispersion induced spatial synchrony, oscillation and amplitude death, and temporal stability in an ecological model	Dutta P, IIT Ropar
15:30-16:30	Coffee break - Poster session	
16:30-17:00	Dynamic patterns and logic gates	Murali K, Anna University
17:00-17:30	Patterns of social self-organisation in cyber space revealed by temporal correlations and co-evolving networks	Tadic B, Jozef Stefan Institute, Slovenia
17:30-18:00	Robust transport in crowded biological environments	Menon G, IMSc Chennai



Day 4 : Thursday 04-02-2016

	Topic	Speaker
09:00-10:00	Fluid dynamics, clouds and raindrops	Govindarajan R, TIFR Hyderabad
10:00-10:30	Methods for comparing attractors	Caroll T L, U S Naval Research Lab
10:30-11:00	Coffee break	
11:00-11:30	Extreme-value distributions in deterministic dynamics	Balakrishnan V, IIT Madras
11:30-12:00	Using Lagrangian coherent structures to inspect potential sound sources	Nair V, IIT Bombay
12:00-13:30	Lunch break	
13:30-14:00	Learning by going with the flow	Balasubramanian K, Goldman Sachs
14:00-14:30	Lagrangian investigations in turbulent premixed flames	Chaudhuri S, IISc Bangalore
14:30-15:00	Is Parkinson's disease a "dynamical disease"?	Srinivas Chakravarthy , IIT Madras
15:00-15:30	Metapopulation dynamics in ecology	Somdatta Sinha, IISER Mohali
15:30-16:00	Coffee break	
16:00-17:00	Panel discussion	
17:00-17:30	Felicitation/Vote of Thanks	



Day 5 : Friday 05-02-2016

	Topic	Speaker
09:00-10:00	Autoregressive processes	Rangarajan G, IISc Bangalore
10:00-11:00	Complexity measures from time series	Ambika G, IISER Pune
11:00-11:30	Coffee break	
11:30-12:30	Multi-scale analysis and correlation studies for unraveling fine structure of stock market dynamics	Panigrahi P K, IISER Kolkata
12:30-13:30	Demo session on time series analysis	Harikrishnan K P, Cochin College

