

# Program Schedule: (Subject to change)

Day 1: December 13, 2018 (Thursday)			
Registration: 8.00 hrs -13.00 hrs			
9.00 hrs- 9.30 hrs	Welcome ceremony and Introduction		
Technical session 1			
Duration	Title	Speaker	Session Organizer
09.30hrs- 10.30hrs	<b>Rotational Synchronization: Experiments and Numeric</b>	Prof. P Paramananda	Prof. B K Goswami
10.30 hrs- 11.30 hrs	<b>Nonlinear Dynamics Perspective on Breaking of a Chemical Bond</b>	Prof. Keshavamurthy	
11.30hrs 11.45hrs	Tea Break		
11.45 hrs- 12.30 hrs	<b>Existence of Perpetual Points in Nonlinear Dynamical Systems And its Applications</b>	Prof. A Prasad	Prof. Keshamurthy
12.30 hrs- 13.15 hrs	<b>Soft Computing Based Modelling of Chaotic System</b>	Prof. J Vajpai	
Workshop Lunch			

Technical session 2

Duration	Title	Speaker	Session Organizer
14.15 hrs- 15.15 hrs	<b>Instabilities in Natural Circulation Systems</b>	Prof. Kannan Iyer	Prof. B Ravindra
15.15 hrs 16.00 hrs	<b>Intermittent Chaotic Behavior of high Speed Bearing</b>	Prof. S P Harsha	
16.00 hrs 16.30 hrs	<b>High tea &amp; Poster presentation</b>		
16.30 hrs- 17.15 hrs	<b>Aspects of Nonlinear Dynamics and Chaos in Evolutionary Game Dynamics</b>	Prof. S Chakraborty	Prof. S Vadera
17.15 hrs- 18.00 hrs	<b>Concealed Communication Through Optical Chaos</b>	Prof. B K Goswami	
<b>CLOSING DAY 1</b>			

# Program Schedule: (Subject to change)

Day 2: December 14, 2018 (Friday)			
Technical session 3			
Duration	Title	Speaker	Session Organizer
09.00hrs 10.00 hrs	<b>Dynamics of Rewired Networks</b>	Prof. S Sinha	Prof. P Paramananda
10.00 hrs- 11.00 hrs	<b>Keratinocytes-Immune Cells Cross Talk: A Mathematical Perspective on Psoriasis</b>	Prof. N Bairagi	
11:00hrs – 11.15hrs	Tea break & Poster Presentation		
11.15 hrs- 12.00 hrs	<b>On The Use of Low Dimensional Nonlinear Dynamic Models in Engineering Design</b>	Prof. B Ravindra	Prof. K P N Murthy
12.00 hrs- 12.45 hrs	<b>Synchronization and its Application in Plant Sciences</b>	Prof. A Prasad	
12.45 hrs- 13.30 hrs	<b>Synchronizing by Occasionally Uncoupling Chaotic Oscillators</b>	Prof. S Chakraborty	
Workshop Lunch break			

Technical session 4

Duration	Title	Speaker	Session Organizer
14.30 hrs- 15.30 hrs	<b>Nonlinear Dynamic Analysis of Smart Piezoelectric and Magneto-Rheological Elastomer Based Structures</b>	Prof. S K Dwivedy	Prof. B Ravindra
15.30 hrs- 16.30 hrs	<b>Computational Bifurcation Analysis of Multi-parameter Nonlinear Dynamical Systems in Constrained Conditions</b>	Prof. N Sinha	
16.30 hrs- 17.00 hrs	Tea break with Poster Presentation		
17.00 hrs- 17.45 hrs	<b>Detection of Chaos from Analysis of a Scalar Time Series</b>	Prof. K P N Murthy	Prof. N Sinha
17:45 hrs – 18.30 hrs	<b>Fractal Geometry, Dynamics and Chaos</b>	Prof. M Shrimali	

CLOSING DAY 2

## Program Schedule: (Subject to change)

Day 3: December 15, 2018 (Saturday)			
Technical session 5			
Duration	Title	Speaker & Affiliation	Session organizer
9.00 hrs- 9.45 hrs	<b>Entropy Then and Entropy Now</b>	Prof. K P N Murthy	Prof. S K Dwivedy
9.45 hrs 10.30 hrs	<b>Bifurcation Theory and Stability analysis</b>	Prof. B K Goswami	
10.30 hrs – 10.45hrs	Tea Break		
10.45 hrs- 11.30 hrs	<b>Nonlinear Dynamics in Brain: Some insights</b>	Prof. A Garg	Prof. S P Harsha
11.30 hrs- 12.15 hrs	<b>Selectivity Predation of Zooplankton and Nutritional Value of Phytoplankton Jointly Influence a Rich Variety of Dynamics in Plankton Population</b>	Prof. N Bairagi	
12.15 hrs- 13.00 hrs	<i>On the Understanding of Dust Transport and Deposition in an Absorber Pore and on a Flat Plate of the Solar Energy Systems</i>	<i>Prof. L Chandra</i>	

Lunch Break

14.00 hrs- 14.45 hrs	<b>Numerical Method and Simulation of Nonlinear Dynamical Systems</b>	Prof. K Choubesia	Prof. S K Dwivedy
14.45 hrs- 15.30 hrs	<b>Control of Multi-stability</b>	Prof. M Shrimali	
15.30 hrs- 16.00 hrs	<b>Control of Nonlinear Systems: Sliding Mode Approach</b>	<i>Prof. D Fulwani</i>	
16.30 hrs 17.00 hrs	<b><i>Unsolved Non-Linear Misfolded Proteins Aggregation: Can Cause Neurodegenerative Diseases</i></b>	Prof. A Misra	

*Closing Remark*

High Tea