

International Conference on
Mathematical Modelling and Scientific Computing
 (ICMMS – 2018), **July 19-21, 2018**
 Email-id: [icmmsc\[at\]iiti.ac.in](mailto:icmmsc[at]iiti.ac.in)
 Conference URL: <http://icmmsc.iiti.ac.in/>

Programme Schedule

Conference day-1: (19-07-2018, Thursday)

Session	Time/Room No.	Chair	Task / Speaker Name	Type of the talk	Title of the talk	
I	08:30-10:00	Registration + Breakfast [1st floor of CSE1]				
	10:00-10:30	Inauguration Room No. POD-CSE1-201				
	10:20-10:50	Tea/Coffee [1st floor of CSE1]				
	10:50-11:35, CSE1-201	Prof. Uday Banerjee	Prof. R. K. Upadhyay	Keynote talks	Modeling Chaotic Systems & Spatiotemporal Transmission Dynamics of Recent Ebola Spread and Outbreak	
	11:40-12:05, CSE1-201	Prof. Rama Bhargav	Prof. Mythily Ramaswamy	Plenary talks	Control of Some Fluid Models	
	12:10-12:35, CSE1-201	Prof. Mythily	Prof. J.C. Misra	Plenary talks	Mathematical Modeling of Electro-osmotic Flows in Physiological Systems	
	11:30-18:00 (Expert time 12:35-13:00)	Poster presentation session [Ground floor of School Building]				
	ICMMS-48	ICMMS-135	ICMMS-166	ICMMS-216	ICMMS-240	ICMMS-123
	ICMMS-71	ICMMS-147	ICMMS-184	ICMMS-219	ICMMS-241	ICMMS-243
	ICMMS-74	ICMMS-151	ICMMS-200	ICMMS-225	ICMMS-242	ICMMS-244
	13:00-14:00	Lunch [SB-Ground Floor]				
II	14:05-14:50, SB-309	Prof. Kumar Singh	Prof. Uday Banerjee	Keynote talks	Generalized Finite Element Method: Successes and Challenges	
	14:55-15:20, SB-309	Prof. Upadhyay	Prof. Rama Bhargav	Plenary talks	Meshfree Methods: Limitations and Applications	
	15:25-15:50, SB-309	Prof. Rafikul Alam	Prof. Kumar Singh	Plenary talks	Active Control with the Method of Receptances: Recent Progresses and its Application in Active Aeroelastic Control	
	15:50-16:10	Tea/Coffee [SB-Ground Floor]				
	16:15-17:45 (12-15 minutes for each)	Parallel sessions for contributed talk/paper presentation:				
		Session 1A (MM), SB-309	Chair Prof. Rama Bhargav	ICMMS-127 ICMMS-82	ICMMS-229 ICMMS-162	ICMMS-42 ICMMS-160
		Session 1B (WP), SB 208	Dr. Shailesh Kundalwal	ICMMS-24 ICMMS-65	ICMMS-167 ICMMS-208	ICMMS-164 ICMMS-109
		Session 1C (CFD), SB-115	Dr. Mahesh Dumaldar	ICMMS-146 ICMMS-136	ICMMS-116 ICMMS-118	ICMMS-174 ICMMS-177
		Session 1D (ALA), SB 209	Prof. Rafikul Alam	ICMMS-177 ICMMS-12	ICMMS-190 ICMMS-95	ICMMS-215 ICMMS-233]
	17:50	Bus will run from IIT Indore to Bee-Town Hotel Indore				
19:00-22:30	Cultural Program and Dinner Hotel Bee-Town Indore					

Session No.	Time/Room No.	Chair	Task / Speaker Name	Type of the talk	Title of the talk
III	08:30-09:00	Registration + Breakfast [SB-Ground Floor]			
	09:00-09:45, SB-309	Prof. Rafikul Alam	Prof. B.N. Datta	Keynote talks	Computational and Optimization Methods for Quadratic Inverse Eigen value Problems Arising in Mechanical Vibration and Structural Dynamics
	09:45-10:30, SB-309	Prof. D. Chakraborty	Prof. Rafikul Alam		Fiedler and Generalized Fiedler Pencils for Rational Eigenvalue Problems
	10:35-11:00, SB-309	Prof. Kumar Singh	Prof. Debasis Chakraborty	Plenary talks	Numerical Methods in Aeropropulsive Characterization of Flight Vehicles
	11:05-11:30, SB-309	Prof. J.C. Misra	Prof. Souymendu Raha		Data Assimilation by Directly Projecting the Nominal Dynamics on the Data Manifold
	11:30-11:45	Tea/Coffee [SB-Ground Floor]			
11:45-13:15 (12-15 minutes for each)	Parallel sessions for contributed talk/paper presentation:				
	Session 11A (MM) SB-309	Chair Dr. Antony Vijish	ICMMSC-212 ICMMSC-14	ICMMSC-159 ICMMSC-84	ICMMSC-180 ICMMSC-108
	Session 11B (NA) SB-209	Dr. Safique Ahmad	ICMMSC-67 ICMMSC-81	ICMMSC-193 ICMMSC-201	ICMMSC-154 ICMMSC-194
	Session 11C (SC) SB-314 A	Prof. S. Raha	ICMMSC-124 ICMMSC-36	ICMMSC-143 ICMMSC-155	ICMMSC-171 ICMMSC-189
	Session 11D (CFD) SB-115	Prof. Debasis Chakraborty	ICMMSC-83 ICMMSC-7, ICMMSC-46	ICMMSC-97 ICMMSC-191	ICMMSC-238 ICMMSC-239
13:00-14:15	Lunch [SB-Ground Floor]				
IV	14:15-15:00, SB-309	Prof. S. Raha	Prof. Volker Mehrmann	Keynote talks	Energy Based Modeling, Simulation, and Control of Coupled Systems
15:05-15:30 SB-309 15:05-15:30 SB-208	15:40-16:05, SB-309	Prof. R.B. Pachori	Prof. J. Prakash	Plenary talks	Heat and Mass Transfer E ectson MHD nanoflow over a semi infinite flat plate embedded in a porous medium & two-phase MHD flow and heat transfer in a horizontal channel
		Dr. Safique Ahmad	Dr. Mohammad Sajid		Chaos in Mathematical Modelling
	Dr. S. Dhinakaran	Dr. G. K. Vishwakarma	Bio-marker Prediction using Bayesian State-Space Modeling in Gene Expression Data Analysis		
	SB-208 SB-209	Dr. Santanu Manna	Dr. Muslim Malik		Controllability of Fractional Differential Equations with Non-instantaneous Impulses
	Dr. N.K. Shukla	Dr. Punit Sharma	Computing Nearest Stable Matrices		
16:05-16:15	Tea/Coffee [SB-Ground Floor]				
16:15-17:45 (12-15 minutes for each)	Parallel sessions for contributed talk/paper presentation:				
	Session IIIA (MM) Room No. SB-309	Chair Prof. R.K. Upadhyay	ICMMSC-34 ICMMSC-61	ICMMSC-16 ICMMSC-93	ICMMSC-121 ICMMSC-152
	Session IIIB (ALA & Fuzzy) SB-208	Dr. Md. Sajid	ICMMSC-115 ICMMSC-21	ICMMSC-139 ICMMSC-101	ICMMSC-158 ICMMSC-224
	Session IIIC (SC & NN) SB-209	Dr. M. Tanveer	ICMMSC-105 ICMMSC-176	ICMMSC-125 ICMMSC-10	ICMMSC-143 ICMMSC-213
Session IIID (NF) SB-115	Dr. S.K. Sahu	ICMMSC-25 ICMMSC-47	ICMMSC-156 ICMMSC-157	ICMMSC-179 ICMMSC-199	
17:50	Bus will run from IIT Indore to Bee-Town Hotel Indore				
19:00	Bus will run from Bee-Town Hotel to Hotel WOW				
19:00-22:30	Conference Banquet Dinner: Hotel WOW Indore				

Conference day-3: (21-07-2018, Saturday)

Session No.	Time/Room No.	Chair	Task / Speaker Name	Type of the talk	Title of the talk	
V	08:30-09:30	Registration + Breakfast [SB-Ground Floor]				
	09:30-10:15, SB-309	Prof. G. Rangarajan	Prof. Santosh Kapuria	Keynote talk	Mixed field Multiterm Extended Kantorovich Method for Accurate Prediction of Edge Stresses in Piezothermoelastic Laminates	
	10:20-10:45, SB-309	Prof. Upadhyay	Prof. G. Rangarajan	Plenary talks	A Mathematical Model for Storage and Recall of Images in the Human Brain	
	10:50-11:15, SB-309	Prof. J. Prakash	Dr. Mani Mehra	Plenary talks	Extension of Wavelets to Topologically Complicated Domains	
	11:15-11:30	Tea/Coffee [SB-Ground Floor]				
	11:15-12:00	Panel Discussion on		Panel Members		
		“How to minimize the Mathematician and Engineers in Real life problem”		Prof. G. Rangarajan (Chairman)	Prof. Uday Banerjee	Prof. J. Prakash
				Prof. Santosh Kapuria	Prof. R.K. Upadhyay	Dr. Safique Ahmad
				Prof. Debasis Chakraborty	Prof. J.C. Misra	Dr. Santanu Manna
	12:00-13:30 (12-15 minutes for each)	Parallel sessions for contributed talk/paper presentation:				
	Session 11A (MM), SB-309	Chair Dr. Mani Mehra	ICMMS-232 ICMMS-172 ICMMS-75	ICMMS-153 ICMMS-178	ICMMS-214 ICMMS-204	
	Session 11B (SC), SB-209	Prof. G. Rangarajan	ICMMS-173 ICMMS-186 ICMMS-27	ICMMS-217 ICMMS-230	ICMMS-195 ICMMS-197	
	Session 11C (SM), SB-208	Prof. S. Kapuria	ICMMS-192 ICMMS-22	ICMMS-98 ICMMS-222	ICMMS-205 ICMMS-209	
	Session 11D (NF), SB-314A	Prof. J.C. Misra	ICMMS-45 ICMMS-198 ICMMS-76	ICMMS-210 ICMMS-202	ICMMS-211 ICMMS-234	
	13:30-14:30	Lunch [SB-Ground Floor]				
VI	14:30-15:00	Valedictory Session SB-309				
	15:00-15:30	Tea/Coffee [SB-Ground Floor]				
	16:00	Bus will run from IIT Indore to Bee-Town Hotel Indore				

Remarks:

MM: Mathematical Modeling;

ALA & NA: Applied Linear Algebra & Numerical Analysis;

CFD: Computational fluid Dynamics;

SM & WP: Solid Mechanics & Wave Propagation;

SC & NN: Scientific Computing & Neural Network;

Porous & NF: Flow heat in porous media & Nano-fluids for heat transfer.

@ Everyday a bus will be started at 7:40 AM (**Exact**) from Bee-Town Hotel to IIT Indore via IT Park.