

**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	
<b>I</b>	<b>08:30-10:00</b>	<b>Registration + Breakfast [1<sup>st</sup> floor of CSE1]</b>				
	10:00-10:30	<b>Inauguration</b> Room No. POD-CSE1-201				
	<b>10:20-10:50</b>	<b>Tea/Coffee [1<sup>st</sup> floor of CSE1]</b>				
	10:50-11:35, <b>CSE1-201</b>	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, <b>CSE1-201</b>	Prof. Rama Bhargav	Prof. Mythily Ramaswamy	Plenary talks	Control of Some Fluid Models	
	12:10-12:35, <b>CSE1-201</b>	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)	<b>Poster presentation session [Ground floor of School Building]</b>				
	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
	<b>13:00-14:00</b>	<b>Lunch [SB-Ground Floor]</b>				
<b>II</b>	14:05-14:50, <b>SB-309</b>	Prof. Kumar Singh	Prof. Uday Banerjee	Keynote talks	Generalized Finite Element Method: Successes and Challenges	
	14:55-15:20, <b>SB-309</b>	Prof. Upadhyay	Prof. Rama Bhargav	Plenary talks	Meshfree Methods: Limitations and Applications	
	15:25-15:50, <b>SB-309</b>	Prof. Rafikul Alam	Prof. Kumar Singh	Plenary talks	Active Control with the Method of Receptances: Recent Progresses and its Application in Active Aeroelastic Control	
	<b>15:50-16:10</b>	<b>Tea/Coffee [SB-Ground Floor]</b>				
	16:15-17:45  (12-15 minutes for each)	Parallel sessions for contributed talk/paper presentation:				
		<b>Session 1A (MM), SB-309</b>	<b>Chair</b> Prof. Rama Bhargav	ICMMS-127 ICMMS-82	ICMMS-229 ICMMS-162	ICMMS-42 ICMMS-160
		<b>Session 1B (WP), SB 208</b>	Dr. Shailesh Kundalwal	ICMMS-24 ICMMS-65	ICMMS-167 ICMMS-208	ICMMS-164 ICMMS-109
		<b>Session 1C (CFD), SB-115</b>	Dr. Mahesh Dumaldar	ICMMS-146 ICMMS-136	ICMMS-116 ICMMS-118	ICMMS-174 ICMMS-177
		<b>Session 1D (ALA), SB 209</b>	Prof. Rafikul Alam	ICMMS-177 ICMMS-12	ICMMS-190 ICMMS-95	ICMMS-215 ICMMS-233]
	<b>17:50</b>	Bus will run from IIT Indore to Bee-Town Hotel Indore				
<b>19:00-22:30</b>	<b>Cultural Program and Dinner Hotel Bee-Town Indore</b>					

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

## 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	<b>08:30-09:30</b>	<b>Registration + Breakfast [SB-Ground Floor]</b>					
	09:30-10:15, <b>SB-309</b>	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, <b>SB-309</b>	Prof. Upadhyay	Prof. G. Rangarajan	Plenary talks	A Mathematical Model for Storage and Recall of Images in the Human Brain		
	10:50-11:15, <b>SB-309</b>	Prof. J. Prakash	Dr. Mani Mehra	Plenary talks	Extension of Wavelets to Topologically Complicated Domains		
	<b>11:15-11:30</b>	<b>Tea/Coffee [SB-Ground Floor]</b>					
	<b>11:15-12:00</b>	<b>Panel Discussion on</b>		<b>Panel Members</b>			
		<b>“How to minimize the Mathematician and Engineers in Real life problem”</b>		Prof. G. Rangarajan ( <b>Chairman</b> ) Prof. Santosh Kapuria Prof. Debasis Chakraborty	Prof. Uday Banerjee Prof. R.K. Upadhyay Prof. J.C. Misra	Prof. J. Prakash Dr. Safique Ahmad Dr. Santanu Manna	
	12:00-13:30 (12-15 minutes for each)	Parallel sessions for contributed talk/paper presentation:					
		<b>Session 11A</b> (MM), <b>SB-309</b>	<b>Chair</b> Dr. Mani Mehra	ICMMS-232 ICMMS-172 ICMMS-75	ICMMS-153 ICMMS-178	ICMMS-214 ICMMS-204	
		<b>Session 11B</b> (SC), <b>SB-209</b>	Prof. G. Rangarajan	ICMMS-173 ICMMS-186 ICMMS-27	ICMMS-217 ICMMS-230	ICMMS-195 ICMMS-197	
<b>Session 11C</b> (SM), <b>SB-208</b>		Prof. S. Kapuria	ICMMS-192 ICMMS-22	ICMMS-98 ICMMS-222	ICMMS-205 ICMMS-209		
<b>Session 11D</b> (NF), <b>SB-314A</b>		Prof. J.C. Misra	ICMMS-45 ICMMS-198 ICMMS-76	ICMMS-210 ICMMS-202	ICMMS-211 ICMMS-234		
<b>13:30-14:30</b>	<b>Lunch [SB-Ground Floor]</b>						
VI	14:30-15:00	Valedictory Session <b>SB-309</b>					
	15:00-15:30	<b>Tea/Coffee [SB-Ground Floor]</b>					
	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.