

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

Schedule for Oral Presentation

Day-1: 19-07-2018 (Thursday)			
Session-IA		Room: PHY1-404	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
MM	Paper ID	Title of the paper	Presenting Author
	ICMMSC-127	Water boundary layer flow over an exponentially permeable stretching...	Abhishek Kumar Singh
	ICMMSC-82	Mathematical Modelling of Solar Cell	Manjusha Tomar
	ICMMSC-42	Reliability assessment of Transformer incorporating different parameters	Neelam Chantola
	ICMMSC-229	Mathematical Modeling of Moored Ship Motion in Vishakhapatnam ...	Prashant Kumar
	ICMMSC-162	Stability analysis of a film flow down an incline in the presence...	Muhammad Sani
ICMMSC-160	Mathematical modeling and analysis ...	Harsh Sharma	
Session-IB		Room: PHY1-406	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
WP	Paper ID	Title of the paper	Presenting Author
	ICMMSC-208	CASE WISE STUDY OF HETEROGENEITY ON THE TRAVERSAL ...	Chandani Kumari
	ICMMSC-24	Exact traveling wave solutions and bifurcation analysis for time fractional dual ...	Amiya Das
	ICMMSC-65	IMPACT OF IRREGULARITY ON THE PROPAGATION OF SH WAVE ...	Sayantana Guha
	ICMMSC-167	Dynamics of Polarised Shear waves propagating in Al/BaTiO3 composite structure	Sonal Nirwal
	ICMMSC-164	Wave interaction with a floating circular porous elastic plate	Harekrushna Behera
ICMMSC-109	INVESTIGATION OF THE DIABETIC LEVEL IN PATIENTS THROUGH..	Pardeep Bishnoi	
Session-IC		Room: PHY1-505	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
CFD	Paper ID	Title of the paper	Presenting Author
	ICMMSC-146	Comparative study of boundary conditions in LBM for incompressible l ...	Alankar Agarwal
	ICMMSC-136	Finite Element Analysis of MHD Blood Flow in Stenosed ...	Ankita Dubey
	ICMMSC-174	Computational Analysis of Buoyant Convection with Top-Heated ...	Arun K Raj
	ICMMSC-116	A solution to enhance the efficiency of CFD analysis results for real ...	Daniel Nayagam J
	ICMMSC-118	Mixed Convective Flow Past an Inclined ...	Md Reyaz Arif
ICMMSC-177	CFD Analysis of Aarterio Venous Fistula ..	Sachin C Kumar	
Session-ID		Room: PHY1-506	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
ALA	Paper ID	Title of the paper	Presenting Author
	ICMMSC-177	Numerical study of dragonfly wing section in Gliding Mode	Mohd Imran Ansari
	ICMMSC-12	Ball convergence theorems for Chebyshev's method in ..	Chandni Kumari
	ICMMSC-233	Optimal multi-echelon integrated supply chain selecting...	Isha Talti
	ICMMSC-190	PSI (?) invariant features for face recognition	Ajaykumar S Cholin
	ICMMSC-215	Position analysis of five bar mechanism under force	Akash Kumar Rajput
ICMMSC-95	Family of Perfect fluid Balls of Class One in General Relativity	Amit Kumar Prasad	

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Day-2 (Forenoon): 20-07-2018 (Friday)

Session-IIA		Room: PHY1-404	
		Session Chair:	
		Time: 11:45 AM - 1:15PM	
	Paper ID	Title of the paper	Presenting Author
MM	ICMMSC-212	Simplified multivariate GARCH (SGARCH) model: A survey	Anuja Gupta
	ICMMSC-14	A Green's function approach to analyze the dispersion characteristics...	Anusree Ray
	ICMMSC-180	Sustainable and Smart Manufacturing through Distributed Manufactur...	Nandini Vishwakarma
	ICMMSC-159	Development of dimensionally reduced model for a multilayered...	Arun Krishnan
	ICMMSC-84	Unsteady stagnation point nanofluid flow with MHD...	Bhuvan Chauhan
	ICMMSC-108	SIMULATION OF LIVESTOCK POPULATION IN INDIA ...	C. Vipin

Session-IIB		Room: PHY1-404	
		Session Chair:	
		Time: 11:45 AM - 1:15PM	
	Paper ID	Title of the paper	Presenting Author
NA	ICMMSC-67	Numerical Solutions of Periodic Burgers' Equation using Collocation...	Amit Tripathi
	ICMMSC-81	Solution of Space-Time Fractional Order Partial Differential Equation...	Vidya Nilesh Bhadgaonkar
	ICMMSC-154	Vibrational Spectra of Ozone (O3) Using Lie Algebraic Method	J. Vijayasekhar
	ICMMSC-193	PERFORMANCE ANALYSIS OF A MODIFIED TWISTED SAVONIUS	Sourish Singha
	ICMMSC-201	Statistical Analysis of Cancer Data	C.P. Sri Chidambaram
	ICMMSC-194	Digital Mammogram Analysis using Bendlets	T. Krishna Chaitanya

Session-IIC		Room: PHY1-404	
		Session Chair:	
		Time: 11:45 AM - 1:15PM	
	Paper ID	Title of the paper	Presenting Author
SC	ICMMSC-124	Improved detection of anomalies via integrated multi-scale principal...	K Ramakrishna Kini
	ICMMSC-36	Numerical Study on the Pennes Bioheat Transfer Equation using finite ...	Sri Charan Akula
	ICMMSC-189	Numerical simulation of melting under the influence of magnetic field...	Sumer Bharat Dirbude
	ICMMSC-143	Disciplined Investigations to Fix Number of Neuron in Hidden Layer...	Dr. Arati R. Lende
	ICMMSC-155	RELIABLE ANALYSIS OF RIEMANN PROBLEM...	Dr. Mithilesh Singh
	ICMMSC-171	Hand Talk System for Deaf And Dumb Person	Vikash kumar

Session-IID		Room: PHY1-404	
		Session Chair:	
		Time: 11:45 AM - 1:15PM	
	Paper ID	Title of the paper	Presenting Author
CFD	ICMMSC-83	The MHD based numerical analysis of unsteady natural convection...	Ranjit J. Singh
	ICMMSC-7	CFD simulation of a trickle bed with foaming liquid	Rahul Omar
	ICMMSC-46	Numerical study on the efficiency of magnetophoresis...	Rekha S
	ICMMSC-191	CFD analysis of arteriovenous fistula for hemodialysis	Sachin C Kumar
	ICMMSC-239	Homotopy analysis solution of MHD Forced Convective Boundary ...	Kalpna Sharma
	ICMMSC-97	Numerical Study on Fluid Dynamics of Collapsible Channels	Vedant Dhruv
	ICMMSC-238	Analysis of the flow of two immiscible electrically conducting fluid...	Ruchika Mehta

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Day-2 (Afternoon): 20-07-2018 (Friday)

Session-III A		Room: PHY1-404	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
	Paper ID	Title of the paper	Presenting Author
MM	ICMMS-34	STABILITY ANALYSIS FOR AN SEIQR EPIDEMIC MODEL WITH ...	Deepti Mokati
	ICMMS-61	Mathematical modelling of UASB reactor: A detailed review	Varsha Parasar
	ICMMS-152	Modelling of Quantum Key Distribution Protocols ...	SATYA KUPPAM
	ICMMS-16	The role of adaptation in an aquatic predator-prey system ...	Nilesh Kumar Thakur
	ICMMS-93	ANALYSIS OF TIME-DELAYED NON-LINEAR EQUATIONS...	Shailesh Verma
	ICMMS-121	Controllability results for a nonlocal nonlinear fractional functional ...	Madhukant Sharma

Session-III B		Room: PHY1-404	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
	Paper ID	Title of the paper	Presenting Author
ALA & Fuzzy Set	ICMMS-115	Application of Integral transform in the solution of Fractional ...	Garima Agarwal
	ICMMS-21	Investigation of Transient stability in IEEE 9- bus system using Power...	ravishankar tiwari
	ICMMS-158	Certain Subclasses of Bi-starlike Functions Associated ...	M G Shrigan
	ICMMS-139	The fruit-basket proof for the theorem on disconnected graph stating ...	Mohd. Hasnain Meer
	ICMMS-224	Aggregation of LARK Vectors for Facial Image Classification	A Vinay, Vinayaka R Kamath
	ICMMS-101	Personnel Selection using Soft Set Theory	Leena Soni

Session-III C		Room: PHY1-404	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
	Paper ID	Title of the paper	Presenting Author
NN	ICMMS-105	SIMULATION AND PREDICTION OF CEREALS RATING USING...	Monisha G
	ICMMS-176	Comparative Study of Artificial Neural Network (ANN) and Multilinear...	A. K. Raj
	ICMMS-143	Disciplined Investigations to Fix Number of Neuron in Hidden Layer of ...	Arati R. Lende
	ICMMS-125	COMPARISON OF REGRESSION AND NEURAL NETWORK MODEL FOR...	Karthick Kumar G
	ICMMS-10	Probabilistic intuitionistic fuzzy set based intuitionistic fuzzy time series ...	Krishna Kumar Gupta
	ICMMS-57	Analysis and Comparative Study of Various Performance Measures of...	Pradeep K. Joshi

Session-III D		Room: PHY1-404	
		Session Chair:	
		Time: 16:15 PM - 17:45PM	
	Paper ID	Title of the paper	Presenting Author
NF	ICMMS-179	Heat Transfer Analysis of CNT-Nanofluid between Two Rotating Plates	Amit Kumar
	ICMMS-199	Numerical investigation of natural convection heat transfer of...	Suhail Ahmad Khan
	ICMMS-25	Thermal radiation and viscous-Ohmic dissipation influence on ...	Ashish Mishra
	ICMMS-156	ANALYSIS OF COOLING EFFECT BY SPRAY IMPINGEMENT OF ..	Bikash Pattanayak
	ICMMS-157	EXPERIMENTAL AND NUMERICAL VALIDATION OF HYBRID ...	Abhishek Mund
	ICMMS-47	Analysis and Comparative Study of Various Performance Measures	Shejal Gupta

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Day-3: 21-07-2018 (Saturday)

Session-IVA			
Room: PHY1-404			
Session Chair:			
Time: 11:45 AM - 1:15PM			
	Paper ID	Title of the paper	Presenting Author
MM	ICMMSC-232	Effect of the heterogeneity, initial stress and viscosity on	Raju Kumhar
	ICMMSC-172	Study of Memory Effect in an Inventory Model With Quadratic Type...	Rituparna Pakhira
	ICMMSC-75	Switching stability of a delayed e-epidemic model in wireless sensor	Sangeeta Kumari
	ICMMSC-204	Mathematical Modeling and Analysis of Green Sand Casting Process ...	Sanjay Aloni
	ICMMSC-153	Modelling of Avalanches and Streamers in Resistive Plate Chambers	Jaydeep Datta
	ICMMSC-214	Analysis and Comparative Study of Various Performance Measures of...	Pradeep K. Joshi
	ICMMSC-178	On the Dynamics of Transverse Domain Walls in Ferromagnetic...	Sharad Dwivedi

Session-IVB			
Room: PHY1-404			
Session Chair:			
Time: 11:45 AM - 1:15PM			
	Paper ID	Title of the paper	Presenting Author
SC	ICMMSC-173	CIT Communication Architecture for Improved Security and Data ...	Dhileepan Thangamanimaran
	ICMMSC-186	Modeling of Viscoelastic Fluid Flow Past a Non-Linearly Stretching ...	Arnab Bhattacharyya
	ICMMSC-195	Aggregation of LARK Vectors For Facial Image Classification	A Vinay, Vinayaka Kamath
	ICMMSC-197	Robust and Efficient Face Recognition Using Minimum Barrier...	A Vinay, Rahul R Bharadwaj
	ICMMSC-217	Facial Image Classification using Rotation, Illumination, Scale ...	Vinay A, Ankur
	ICMMSC-230	A Copy Detection Technique based on Discrete Cosine Transformation	Shikha Srivastava

Session-IVC			
Room: PHY1-404			
Session Chair:			
Time: 11:45 AM - 1:15PM			
	Paper ID	Title of the paper	Presenting Author
SM	ICMMSC-192	CT scan based modeling and finite element analysis of femur bone ...	Hasin Khan
	ICMMSC-22	A Coupled Field Finite element analysis of a Dielectric Elastomer...	Chinmay Jivani
	ICMMSC-222	Design and Analysis of Chassis of Hydraulic Test Trolley	Roshan Gawande
	ICMMSC-205	Structural analysis of hydraulic aircraft jack using solid mechanics and...	SANDEEP RATHOR
	ICMMSC-209	Kinematic Analysis of Five Bar Mechanism under Tolerance	Aditya Rathore
	ICMMSC-98	A nonlinear mathematical study of Tropical Cyclone Eye: A review	Shashi Kant

Session-IVD			
Room: PHY1-404			
Session Chair:			
Time: 11:45 AM - 1:15PM			
	Paper ID	Title of the paper	Presenting Author
Porous + NF	ICMMSC-198	A Finite Difference Approach to Study the Three-Dimensional Rotating...	Rajan Kumar
	ICMMSC-210	Facial Analysis using Jacobians and Gradient Boosting	Abhijay Gupta
	ICMMSC-202	Experimental investigation on optimization of concentration of ...	Sagar Bhingare
	ICMMSC-76	UNSTEADY NATURAL CONVECTION IN A FLUID-SATURATED ...	Chordiya Jayesh Subhash
	ICMMSC-45	Convective flow in an anisotropic porous wavy channel	V. K. Narla
	ICMMSC-211	Theoretical study of dynamics of the micro-nanomotor	Sunny Kumar
	ICMMSC-234	Haar Wavelet: History and Its Applications	Kshama Sagar Sahu

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Remarks:

MM: Mathematical Modeling; ALA: Applied Linear Algebra; NA: Numerical Analysis; CFD: Computational fluid Dynamics; SM: Solid Mechanics; WP: Wave Propagation; SC: Scientific Computing & Simulation; Porous: Flow heat and mass transfer in porous media; NF: Nano-fluids for heat transfer; NN: Neural Network

Schedule for Poster Presentation

Day-1: 19-07-2018 (Thrusday)

Session-IA		Room: PHY1-404	
		Session Chair:	
		Time: 16:00 PM - 16:30 PM	
Poster	Paper ID	Title of the paper	Presenting Author
	ICMMSC-27	Reliability and sensitivity estimation of shuffle exchange network ...	Soni Bisht
	ICMMSC-48	Discrete Time Minimum Variance Control of Satellite System ...	D Y Dube
	ICMMSC-71	Effect of Environmental Pollutants on Rain due to Stakeholders ...	Nita H. Shah
	ICMMSC-74	Scrutinization of Discrepancy in Nozzle Throat Diameter for ...	Rahul Shukla
	ICMMSC-123	Image Segmentation of Breast Cancer Histopathology Images using ...	Vandana Kate
	ICMMSC-135	Study of source influx on interdependent calcium and ...	Nisha Singh
	ICMMSC-147	Spatiotemporal Dynamics of Immunogenic Tumors ...	Teekam Singh
	ICMMSC-151	A Survey of Time Series Data Prediction Using Multi Agent ...	Mohammed Ali Shaik
	ICMMSC-166	Stability aspects of the first order Hayes equation with scalable hysteresis	Santhosh Kumar Balija
	ICMMSC-184	Predator-prey model with prey group defense and non-linear predator harvesting	Rajat Kaushik
	ICMMSC-200	ESTIMATION OF ANNUAL RICE PRODUCTION AND ITS METHANE EMISSION IN PADDY FIELDS	C.S. Rahul
	ICMMSC-213	Torque Minimization in Surgical Bone Drilling by Particle Swarm Optimization	Ponnusamy Pandithevan
	ICMMSC-216	Design of Novel Efficient circuit switching for Quantum-dot Cellular Automata	Mahaboob Subani Shaik
ICMMSC-219	Role of subducting slab age and dip on the development of fore-arc topography	Ritabrata Dasgupta	
ICMMSC-225	SIMULATION OF I-V CHARACTERISTIC OF SINGLE ELECTRON TRANSISTOR (SET) WITH SCILAB'S MODEL BASED DESIGN CODES	S. Kumar	

Some more will be updated in the poster session

@ There will be an Award for Best Poster in ICMMSC-2018

@ There will be an Award for the area of i) MM; ii) CFD; iii) NF; iv) SC; v) WP & SM; vi) ALA & NA in Oral present presentation also.