

# 2nd International Conference on Computational Sciences – Modelling, Computing and Soft Computing (CSMCS-2022)

28 March 2022 - 30 March 2022

Department of Mathematics, Manipal Institute of Tecnology, Manipal 576 104, India

## DAY-1- 28 March 2022 ONLINE SESSION SCHEDULE

**MS Team Link For Day 1: <https://tinyurl.com/2p8nsnz6>**

Time	Programme	
10:00 AM-10:45AM	<b>Inaugural Function</b>	
<b>Chairperson: Dr. P. G. Bhat, MIT, Manipal</b>		
11:00 AM-12:00 Noon	Keynote Address: Dr. A K PANI, IIT Bombay.	
	<b>Title:</b> Through eyes of viscoelastic fluids: How can an external stimulus influence research in theoretical and computational PDEs?	
12:15PM-1:00PM	Keynote 1: Dr. Sivaji Chakravorti	
	<b>Title:</b> Mathematical Morphology Filter-A Time Domain Approach	
1:00PM-1:45PM	Lunch Break	
<b>Chairperson: Prof. Rangarajan, University of Mysore, Mysore</b>		
1:45PM-2:30PM	Keynote 2: Dr. S. Sundar, IIT Madras.	
	<b>Title:</b> Particles in Fluids: Models and Analysis	
2:30PM-3:15PM	Keynote 3: Dr. Raju K. George, IIST Kerala, India	
	<b>Title:</b> Modelling and Control of Artificial Satellites	
3:30PM-4:15PM	Key note 4: Dr. Shiv Prasad Yadav, IIT Roorkee, India	
	<b>Title:</b> Development of FFDEA Models to Measure the Performance Efficiencies of Decission Making Units (DMUs)	
<b>Day-1: Oral Session 1 Time : 4:30PM-6:30PM</b>		
Chair: Dr. Sayinath Udupa, MIT, Manipal		
MS Team Link for Oral Session 1: <a href="https://tinyurl.com/ycknttpz">https://tinyurl.com/ycknttpz</a>		
Abstract ID	Presenting Author	Title of the paper
AbsID00101	G.Thirupathi	Thermal Radiation, Viscous Dissipation and MHD Stagnation Point Flow of Micropolar Fluid over a Shrinking Sheet
AbsID00102	Richa Rani	Overview of Soliton and its Applications
AbsID00121	G. ASHOK	A New Kind of Cryptosystem using Polynomials and Fibonacci Numbers
AbsID00126	Stephy Stephen	AN IVNP TODIM-CRITIC METHOD FOR THE SELECTION OF PESTICIDES USING AGGREGATION OPERATORS
AbsID00128	Abirami S.	Asort on Intuitionistic Fuzzy-Hypergroups and Mimic Hyper groups
AbsID00136	Komal Deswal	A highly accurate numerical approach for variable order time-fractional constant elasticity of variance model for option pricing
AbsID00137	Sowmya S. B.	Mixed convection past a vertical heated plate with nano fluids and variable fluid properties
AbsID00138	Dr. Nanjundaswamy. N.	Adomian Decomposition Method for an Integro - differential equation involving an analytic function at origin

AbsID00142	Anjaly Jose	Semi-invertible fuzzy-topological spaces
<b>Day-1: Oral Session 2 Time : 4:30PM-6:30PM</b>		
<b>Chair: Dr. Prathima J., MIT, Manipal</b>		
<b>MS Team Link for Oral Session 2: <a href="https://tinyurl.com/mwtzn7t">https://tinyurl.com/mwtzn7t</a></b>		
Abstract ID	Presenting Author	Title of the paper
AbsID00095	D. Anu Radha	Mixed modular equations of degree two
AbsID00004	Ajay C. K.	Viscous Dissipation, Radiation and MHD effects on Mixed Convection Flow from a Vertical Flat Plate with Internal Heat Generation (Absorption)
AbsID00005	Ajaykumar M.	The Effect of Variable Heat Flux on Unsteady Laminar MHD Boundary Layer Flow and Heat Transfer Due to a Stretching Sheet
AbsID00017	Harish G. Siddalingaiah	Comparative study of Classical Recursive Numerical schemes based Automatic Regularization parameter estimation for Diffuse Optical Tomographic image reconstruction
AbsID00041	MADUGULA RITHVIK	A Predictive Analysis on the Learning Pedagogies in Computer Science and Engineering
AbsID00070	Anil Kumar	A Taylor Series approach for Solution of Nonlinear Pantograph Equations
AbsID00072	BOTSA DEVAKI RANI	Ranking generalized trapezoidal fuzzy numbers by defuzzification in centroid range decision level
AbsID00100	MOHD RAFIQ	Fibonacci wavelets collocation method for the numerical solution of the Chen–Lee–Liu equation
<b>Day-1: Oral Session 3 Time : 4:30PM-6:30PM</b>		
<b>Chair: Dr. Rakshith B. R., MIT, Manipal</b>		
<b>MS Team Link for Oral Session 3: <a href="https://tinyurl.com/2p8secrc">https://tinyurl.com/2p8secrc</a></b>		
Abstract ID	Presenting Author	Title of the paper
AbsID00145	Sathya P.	Improving Clustering Efficiency in Machine learning for Agricultural Data to Enhance Yield Productivity
AbsID00152	Abhimanu Singh	Mathematical Foundation of the Working of an Artificial Neural Network/Convolutional Neural Network for Classification and Detection of Brain Tumors
AbsID00158	Vanshika Aggarwal	Numerical solution of a partial differential equation to predict COVID-19 cases
AbsID00160	HIMANSHU	Random Phase mask Encoding of color Image in Fourier Domain
AbsID00169	Srijani Samanta	In-silico exploring the effect of potential phytochemicals as diabetes therapeutics
AbsID00170	R. Vetriselvi	CONSTRUCTION OF EFFICIENCY BALANCED DESIGN FOR ONESIDED CIRCULAR NEIGHBOUR-BALANCED DESIGN
AbsID00173	DEVIKA SURESH	COMPARISON OF CPU EXECUTION TIME AND MEMORY SPACE BASED ON DIFFERENT KEY SIZES FOR CERTAIN CLASS OF CRYPTOGRAPHIC ALGORITHMS
AbsID00183	PANKAJ TIWARI	Approximation of the generalized Zygmund by the product means of Derived Fourier Series
<b>Day-1: Oral Session 4 Time : 4:30PM-6:30PM</b>		
<b>Chair: Dr. A. H. Srinivasa, Maharaja Institute of Technology, Mysore</b>		
<b>MS Team Link for Oral Session 4: <a href="https://tinyurl.com/2xkbkya3">https://tinyurl.com/2xkbkya3</a></b>		

Abstract ID	Presenting Author	Title of the paper
AbsID00006	Sathya K B	Deskew Translation of real scene License Plate recognition using GPU-YOLO
AbsID00014	S. Balaji	Bernoulli wavelet method for Duffing equations
AbsID00177	Jamel Kenouza	Comparative study between the least squares method and the maximum likelihood to estimate the tow parameters of Wiebull model
AbsID00067	Sithara Mary Sunny	Mathematical representation of physical and psychological aspects during human locomotion
AbsID00077	Bharatha K.	A New Perturbation Method to Solve Hirota-Satsuma Coupled KdV Equation
AbsID00079	SHREEKANT KANGUR	Lubrication of Squeeze Film Between Porous Secant Curved Circular Plates are Coupled with Surface Roughness and Micropolar Fluids
AbsID00083	Soulef BOUGUEROUA	Numerical Comparison Of Some Algorithms In Image Processing
AbsID00086	Priya Mathews	Hamming Distance of Neutrosophic Fuzzy Sets for Medical Diagnosis
AbsID00087	Kushi Mahar	A Short Discussion on CPM/PERT Problem under Uncertainty

**Day-1: Oral Session 5 Time : 4:30PM-6:30PM**

**Chair: Dr. Manjunatha G, MIT, Manipal.**

**MS Team Link for Oral Session 5: <https://tinyurl.com/2p8zkwyx>**

Abstract ID	Presenting Author	Title of the paper
AbsID00088	Niya Elizabeth Shaji	A Short Discussion on Transshipment Problem under Uncertainty
AbsID00090	Ajoy Hatibaruah	Production inventory model under the effect of inflation for ameliorating and deteriorating items with shortages
AbsID00092	Gudipudi Jhansi Priya	A Short Discussion on LPP Model under Uncertainty
AbsID00094	Abdelkader Rassoul	Asymptotic normality of the nonparametric conditional hazard function estimate with functional variables for the quasi-associated data
AbsID00098	SANGEETHA J	IMPACTS OF ELECTROMAGNETIC AND POROUS MEDIUM ON TIME- DEPENDENT FLOW OF TWO IMMISCIBLE FLUIDS IN A CHANNEL
AbsID00103	Prasanna B. M.,R	Numerical Study of Natural Convection in Vertical Cylindrical Annulus with Internal Heat Generation
AbsID00105	Sarun Soman	Design Of A Hip Joint Trajectory Tracking Controller For An Exoskeleton
AbsID00106	Ms. Divya Mol K T	Complex Fuzzy Matrices in Decision Supporting System for Management of Breast Cancer

**Day-1: Oral Session 6 Time : 4:30PM-6:30PM**

**Chair: Dr. Lavanya B. MIT, Manipal**

**MS Team Link for Oral Session 6: <https://tinyurl.com/ycku3hua>**

Abstract ID	Presenting Author	Title of the paper
AbsID00108	Vinyas	An assessment of Yeoh strain energy function for annulus of Intervertebral disc using MATLAB and ABAQUS
AbsID00110	Salma Fauzia	Deep Learning Models For Alzheimers Disease Detection
AbsID00164	Mohsin Fayaz	Prediction of Rainfall induced Landslides using Adaptive networkbased fuzzy inference system (ANFIS)
AbsID00113	Anju Thomas	Analysis of Transportation Problem under Spherical Fuzzy Environment
AbsID00116	Senthil Kumar J.P.	A COMPARISON OF STOCK MARKET PREDICTION PERFORMANCE OF ARIMA AND RNN-LSTM MODEL – A CASE STUDY ON INDIAN STOCK EXCHANGE
AbsID00117	Haresh P. Jani	Comparision of Concentration in Longitudinal Dispersion Phenomenon by Aboodh transform perturbation method with numerical method
AbsID00118	Amit Kumar	HEART DISEASE PREDICTIOR APP USING MACHINE LEARNING
AbsID00119	Umarkhonov Sadillakhon	On stress state of earth dams under the action of their own weight

**Day-1: Oral Session 7 Time : 4:30PM-6:30PM**

**Chair: Dr. Divya Shenoy, MIT, Manipal**

**MS Team Link for Oral Session 7: <https://tinyurl.com/5n6sm9jt>**

Abstract ID	Presenting Author	Title of the paper
AbsID00125	Rikhsieva Barno	Numerical simulation of soil behavior under shear interaction of an underground pipeline with soil
AbsID00132	Monika Tiwari	Reservoir Optimization by using Rao Algorithm
AbsID00143	Laala Zeyneb	How does communities are in network?
AbsID00133	Dr. S.M.CHITHRA	Energy Consumption and Network Lifetime amplified in Wireless Sensor Networks by Game Theory
AbsID00174	Sneha M R	Evaluation Of CMORPH Satellite Precipitation Product For Modelling Rainfall Over South Peninsular Region Of India
AbsID00140	V. Rema	Structural Equation Modelling of Integrated Healthcare Delivery System KPIs on Operational Performance and Physician Outcomes
AbsID00141	Neethu M	Properties of Semi-invertible and Generalized semi-invertible topological space
AbsID00091	Thenmozhi Ganesan	Deep learning based recommender system techniques – An overview

**Day-1: Oral Session 8 Time : 4:30PM-6:30PM**

**Chair: Dr. Devadas Nayak C., MIT, Manipal**

**MS Team Link for Oral Session 8: <https://tinyurl.com/yc5595c8>**

Abstract ID	Presenting Author	Title of the paper
AbsID00065	Jaber Hussain Asalool	Generalized dot total graph of a commutative ring
AbsID00075	HONNEGOWDA C. K.	On Certain Combinatorial Properties of Brahmagupta - Chebyshev pair
AbsID00076	DAVID A. KALARKOP	Chromatic Polynomial of Complement of a Cycle
AbsID00084	Dr. MANJUSHA O. T.	SET DOMINATION IN FUZZY GRAPHS USING STRONG ARCS
AbsID00109	Joseph Paul R	Geo Chromatic Number of Middle, Central and Total Graph for Pn and Cn
AbsID00122	Dr. P. KRISHNAVENI	E-Super (a, d) Edge-antimagic Graceful labeling of Disconnected Graphs
AbsID00123	Dr. PREMODKUMAR K P	k-Forcing Number of Graphs and Splitting Graphs
AbsID00129	Magi P M	Computing the distance eigenvalues of the zero divisor graph

**Day-1: Oral Session 9 Time : 4:30PM-6:30PM**

**Chair: Dr. Harikrishnan P. K, MIT, Manipal**

**MS Team Link for Oral Session 9: <https://tinyurl.com/yy4y76s9>**

Abstract ID	Presenting Author	Title of the paper
AbsID00127	Dr. Naresh Dudi	ON THE GENERALIZED EXTENDED WRIGHT FUNCTION
AbsID00002	Fathima Perveen P A	Relation on Spherical Fuzzy Soft Sets
AbsID00011	M.Jyothirmai	Diabetic Neuropathy Based on Feature Extraction and Classification using GLCM, SVM, and NN
AbsID00074	Bhubaneswari Mishra	Data Analytics for Risk Forecasting in the Financial Industry
AbsID00081	Jayanth Somuri	Identifying and authenticating Different Currency Notes and coins
AbsID00112	Yogendra Nayak	In silico drug repurposing by docking and molecular dynamic studies to target focal adhesion kinase in non-small cell lung cancer
AbsID00114	Binu R	Tracing of Tumour Motion Using Nutrosophic Distance Function
AbsID00153	Dr.V.Jyothsna	A Multi-Layered Hybrid Approach for Intrusion Detection System