

Contributory Talks: ICNCS 2024 (Virtual Mode)

*as per the IST (GMT + 05:30)

DAY 01 (07 FEB, 2024)

Contributory Talks (16:15-17:45) - Panel - 01 GMeet Link: https://meet.google.com/osi-kbep-noi

Session Chairs: Dr. Ramasamy S, Madanapalle Institute of Technology & Science, Andhra Pradesh, India Dr. Mini Ghosh, Vellore Institute of Technology, Chennai

- ID:05 **Dang Thi Kiem Hong**, University of Finance and Accountancy, Vietnam State estimation for the permanent magnet synchronous motor using a recurrent neural network learning algorithm and an event-triggered state observer
- ID:36 **Karuppusamy M**, Bannari Amman Institute of Technology, Erode An Enhanced Delay-Dependent Criterion and H-Infinity Filters for Continuous-Time Systems with Time-Varying Delays
- ID:47 **Revathi V M**, Bannari Amman Institute of Technology, Erode A Novel H-Infinity Filtering Design for Continuous-Time T-S Fuzzy Systems with Time Delays
- ID:50 **T. Elizabeth Jeyanthi**, Bharathiar University, Coimbatore Stability of stochastic systems driven by Poisson process

Contributory Talks (16:15-17:45) - Panel - 02 GMeet Link: https://meet.google.com/pif-xxps-rhg

Session Chairs: Dr. Mathiyalagan K, Bharathiar University, Coimbatore, India Dr. Vijay Kumar P, Vellore Institute of Technology, Chennai

ID:169 **Shahid Abdullah**, Vellore Institute of Technology, Bhopal A Novel Optimal Eight-Order Three-Point Iterative Method for Solving Non-Linear Equations with Applications

- ID:11 **P Vaidehi**, SRM Institute of Science and Technology, Kattankulathur Analysis of Entropy Generation on MHD Oscillatory Jeffrey Fluid Flow in a Tapered Wavy Channel
- ID:14 **Kailash Chand Swami**, BITS Pilani, Hyderabad Scattering of Water Waves by Thick Porous Breakwater in the Presence of Ocean Current
- ID:56 **S. Selvi** , Bannari Amman Institute of Technology, Erode Elastic Waves in a Layered Medium

Contributory Talks (16:15-17:45) - Panel - 03 GMeet Link: https://meet.google.com/nva-jkew-uyn

Session Chairs: Dr. Govindharaj V, National Institute of Technology, Pondicherry, India Dr. Sowndar Rajan PT, Vellore Institute of Technology, Chennai

- ID:04 **Dao Thi Hai Yen**, Phu Yen university, Vietnam State estimate intervals for a class of fractional-order interconnected systems
- ID:46 **Vinoth Seralan**, Chennai institute of Technology, Chennai Fractional-order dynamics and fear-induced bifurcation in delayed food chain model
- ID:79 **P. Umamaheswari**, Chennai institute of Technology, Chennai Solvability of Stochastic Fractional Differential Equations With Deviating Arguments
- ID:82 **K. Anukiruthika**, GRI (Deemed to be University), Dindigul Optimal Control System of Multi-Term Fractional Stochastic Inclusion with Clarke's Subdifferential

Contributory Talks (16:15-17:45) - Panel - 04 GMeet Link: https://meet.google.com/gbo-jdbo-juy

Session Chairs: Dr. Gowrisankar A, VIT, Vellore, India Dr. Radha S, Vellore Institute of Technology, Chennai

- ID:144 **Manju John**, Catholicate College, Pathanamthitta gsl-Groups and some of its properties

- ID:29 **R.Sowndariya**, Kongunadu Arts and Science College Application of Genetic Matrix via bms Topological Spaces
- ID:44 **Malathi M**, Bannari Amman Institute of Technology, Erode Planarity of combination of graphs in Commutative Ring
- ID:99 **Mahadeer A**, SRM Institute of Science and Technology, Kattankulathur Partial Petri Net Languages and their Properties
- ID:123 Gargi Patel, Ramanujan Institute for Advanced Study in Mathematics, Chennai Moduli Space of Projective Sheaves on Smooth Projective Surfaces
- ID:207 C. Thangaraj, Vignan's Foundation for Science, Technology and Research, Andhra Pradesh Multifractal Analysis in Age Based Classification for COVID-19 Patients' CT-Scan Images with Different Noise Levels

Contributory Talks (16:15-17:45) - Panel - 05 GMeet Link: https://meet.google.com/rto-sbvr-ukw

Session Chairs: Dr. Reegan J, Sathyabama Institute of Science and Technology, Chennai, India Dr. Kaliyappan M, Vellore Institute of Technology, Chennai

- ID:152 **Pranav. V**, Vellore Institute of Technology, Vellore Cancer classification based on Single cell RNA Sequence
- ID:198 Afila A S, Indian Institute of Information Technology, Kottayam Exploring the Dynamics of Van der Pol equation: A Physics-Informed Neural Network Approach
- ID:58 Sangeetha Alias Sheeba M , V. V. Vanniaperumal College for Women, Virudhunagar Handwritten Text Recognition with Deep Learning and Data Augmentation
- ID:111 **S.Narmadha**, Kongunadu Arts and Science College, Coimbatore Deep Learning based Imputation and Prediction Model for Vehicle Traffic Congestion

DAY 02 (08 FEB, 2024)

Contributory Talks (14:00—15:30) - Panel - 01 GMeet Link: https://meet.google.com/osi-kbep-noi

Session Chairs: Dr. Arthi G, PSGR Krishnammal College for Women, Coimbatore, India Dr. Durga Nagarajan, Vellore Institute of Technology, Chennai

- ID:51 **N. Soundarya Lakshmi**, Bharathiar University, Coimbatore Passivity based boundary control design for reaction-diffusion equations with delays
- ID:112 **K. Sri Raja Priyanka**, GRI (Deemed to be University), Dindigul Exponential Function Projective Synchronization of Delayed Discrete-Time Neural Networks via Saturation-based Feedback Controller
- ID:163 **M. Antonyronika**, PSGR Krishnammal College for Women, Coimbatore $H\infty$ control for discrete-time coupled interconnected systems with stochastic disturbances and time-varying delay
- ID:172 **A. Karnan**, GRI (Deemed to be University), Dindigul Design of event-triggered extended dissipative state estimator for neural networks with multiple time-varying delays
- ID:211 **G.Brundhashree**, Gobi Arts & Science College, Gobichettipalayam Fault-tolerant T-S Fuzzy synchronization control for complex dynamical networks with coupling delay

Contributory Talks (14:00—15:30) - Panel - 02 GMeet Link: https://meet.google.com/pif-xxps-rhg

Session Chairs: Dr. V.P.M. Senthil Nayaki, PSNA College of Engineering and Technology,Dindigul, India Dr. Sudip Debnath, Vellore Institute of Technology, Chennai

- ID:80 **N Ramya**, Karpagam Academy of Higher Education, Coimbatore Analysis of Thermophoretic and Brownian Motion along with Casson Micropolar Fluid Flow Over an Inclined Surface
- ID:135 **Rahul Choudhary**, University of Rajasthan, Jaipur Investigation of Melting Heat Transfer in Viscous Nanofluid Flow including Micro-Organisms and Entropy Generation due to an Inclined Exponentially Stretching Sheet

- ID:137 **Mukesh Kumar**, University of Rajasthan, Jaipur Entropy Analysis in Second Grade Non- Newtonian Fluid Flow and Heat Transport in a Channel with Thermal Radiation
- ID:143 **A. Vanav Kumar**, National Institute of Technology, Arunachal Pradesh Unsteady fractional time derivative of nanofluid past a stretching sheet with time varying temperature and concentration

Contributory Talks (14:00—15:30) - Panel - 03 GMeet Link: https://meet.google.com/nva-jkew-uyn

Session Chairs: Dr. Kokila J, Central University of Tamil Nadu, Thiruvarur, India Dr. Padmaja N, Vellore Institute of Technology, Chennai

- ID:96 **K.S. Priyendhu**, Amrita Vishwa Vidyapeetham, Coimbatore On the solutions of coupled system of time-fractional reaction-diffusion equations with time delays
- ID:121 V. Padmapriya , New Prince Shri Bhavani Arts and Science College, Chennai
 Adomian Decomposition Method and Homotopy Analysis Method for Fuzzy Fractional Differential Equations through 1-cut and 0-cut equations
- ID:125 **B. Krithika**, Amrita Vishwa Vidyapeetham, Coimbatore Exploring Tumor-Induced Immunosuppression dynamics by Myeloid-Derived Suppressor Cells: Insights via a fractional order mathematical model with time delay
- ID:141 Ramasamy Subramaniam , Madanapalle Institute of Technology and Science, Andhra Pradesh Passivity Based Sampled-Data Controller for T-S Fuzzy System with the Refined Fractional Delayed-State

Contributory Talks (14:00—15:30) - Panel - 04 GMeet Link: https://meet.google.com/gbo-jdbo-juy

Session Chairs: Dr. Manimaran A, VIT, Vellore, India Dr. Balamurugan BJ, Vellore Institute of Technology, Chennai

- ID:13 Arathy K D, Sree Narayana College, Kerala On reciprocal distance spectrum of neighbourhood corona of graphs
- ID:66 **V. R. Sunil Kumar**, Rajalakshmi Engineering College, Chennai Detour simplicial graphs

- ID:78 **S. Sherly Jasmin**, Scott Christian College (Autonomous), Nagercoil Note on "Edge geodesic number of a fuzzy graph"
- ID:103 **R Pavithra**, Kongunadu Arts and Science College, Coimbatore On Grundy Number of Ladder Graph Families
- ID:175 S. Sowmya, Sree Devi Kumari Women's College,Kuzhithurai On various Zagreb indices of the drug Trimethoprim

Contributory Talks (14:00—15:30) - Panel - 05 GMeet Link: https://meet.google.com/rto-sbvr-ukw

Session Chairs: Dr. Vidhusha S, Shiv Nadar University, Chennai, India Dr. Somnath Bera, Vellore Institute of Technology, Chennai

- ID:216 Utkarsh Kedia, Vellore Institute of Technology, Chennai Predictive Modelling for Life Expectancy Classification: A Comprehensive Comparative Analysis of Ensemble Learning and Neural Network Approach
- ID:147 **Johnsi. R**, Vellore Institute of Technology, Chennai A Comprehensive Survey on Methodologies for Automatic Essay Scoring
- ID:157 **Sujithra Sankar**, Hindustan Institute of Technology and Science, Chennai Transfer Learning in Thyroid Malignancy Prediction Explained with Grad-CAM
- ID:116 Johnson B , Thiagarajar College of Engineering, Madurai MetaOptiRice: A Metaheuristic Approach to Elevate Imaging Precision in Paddy Disease Detection

Contributory Talks (14:00—15:30) - Panel - 06 GMeet Link: https://meet.google.com/pwq-otjm-xsp

Session Chairs: Dr. Devi Priya, Sri Krishna Adithya College of Arts & Science, Coimbatore, India Dr. Vidhya V, Vellore Institute of Technology, Chennai

- ID:35 **Sukhwinder Singh Rawat**, Doon University, Dehradun Continuous Archimedean Triangular Norms based Intuitionistic Fuzzy Hamy Mean Operator
- ID:55 **M.Parimala**, Bannari Amman Institute of Technology, Erode Neutrosophic $\alpha \psi$ supra compactness in neutrosophic supra topological space

- ID:113 Anitha G, SRM Institute of Science and Technology, Kattankulathur Solving fuzzy non-linear fixed charge transportation problems using modified gauss elimination technique
- ID:174 **Rajeshwari S**, Annamalai University, Chidambaram On Half range Fourier Cosine and sine series of Octagonal Fuzzy number
- ID:43 **Premkumar Munusamy A**, Sathyabama Institute of Science and Technology, (Deemed to Be University), Chennai A New Constrain of Doubt κ – Q Group Operating on Fuzzy Algebraic Structures

Contributory Talks (15:30—17:00) - Panel - 01 GMeet Link: https://meet.google.com/wpq-nmvw-hyh

Session Chairs: Dr. Baranibalan N, Central University of Tamil Nadu, Thiruvarur, India Dr. Prabhakar V, Vellore Institute of Technology, Chennai

- ID:212 **R. Preetha**, Bannari Amman Institute of Technology, Erode Synchronization analysis of switched neural networks with time-delays
- ID:203 **B. Ram Kumar**, GRI (Deemed to be University), Dindigul QGA based Reliable sampled data control for T-S fuzzy systems with applications
- ID:27 **Stephen Arockia Samy**, Kunsan National University, South Korea A memory state-feedback controller scheme for multi-agent systems on time scale and its application to circuit network
- ID:84 **Humaira Aslam**, Adamas University, West Bemgal Optimal intervention strategies for Visceral Leishmaniasis model -A case study in South Sudan

Contributory Talks (15:30—17:00) - Panel - 02 GMeet Link: https://meet.google.com/jmo-wtuu-eks

Session Chairs: Dr. Sivaraj, PSG Arts & Science College, Coimbatore, India Dr. Durga Prasad P, Vellore Institute of Technology, Chennai

ID:15 **Santanu Kumar Dash**, BITS Pilani, Hyderabad Iterative boundary element method for modeling an inverted T-type porous barrier in presence of ocean currents

- ID:136 **Subhendu Paul**, BITS Pilani, Hyderabad Effect of ocean current on interaction of water waves with perforated barriers placed over undulated seabed
- ID:06 Nitish Gupta , National Institute of Technology, Warangal Impact of Magnetic Field at the Entrance Region of Porous Filled Duct under the LTNE Model with Viscous Dissipation and Axial Conduction
- ID:165 **Sanjit Das**, Vellore Institute of Technology, Chennai LRS Bianchi II in higher order teleparallel gravity
- ID:160 **Karthik**, National Institute of Technology, Warangal Modeling of COVID-19 with Vaccination and Optimal Control

Contributory Talks (15:30—17:00) - Panel - 03 GMeet Link: https://meet.google.com/weu-geej-cpw

Session Chairs: Dr. Easwara Moorthi D, VIT, Vellore, India Dr. Devi Yamini S, Vellore Institute of Technology, Chennai

- ID:131 Indumathi S M, Amrita School of Physical Sciences, Mysuru Optimizing Edge Coloring in Undirected Graphs through Efficient Adjacency Matrix Representation
- ID:162 R. Ponraj , Sri Paramakalyani College, Alwarkurichi Pair Mean Cordial Labeling in the Context of Vertex Switching of Path, Cycle, Shell and Wheel Graphs
- ID:164 **D.Anusha**, Sree Devi Kumari Women's College,Kuzhithurai The upper and the forcing geodetic hop domination numbers of a graph
- ID:206 K.S. Nithiya, Vellore Institute of Technology, Vellore Enumeration of Multi-Variate Independence Polynomial for Iterations of Sierpinski Triangle Graph

Contributory Talks (15:30—17:00) - Panel - 04 GMeet Link: https://meet.google.com/pec-jofp-rxo

Session Chairs: Dr. Shanger Ganesh L, National Institute of Technology, Goa, India Dr. Felix A, Vellore Institute of Technology, Chennai

ID:190 S. Sumathi, Vellore Institute of Technology, Chennai Performance assessment of Fuzzy Inference System on Medical data ID:85 **S. Vanitha**, A.E.T College, Salem On Nano Soft s(1) Topological Space and its Application in Decision Making for Medical Diagonsis in the Risk Factors for Cancer

- ID:86 G. Tamilarasi, Kalasalingam Academy of Research and Education, Virudhunagar
 A Hybrid Approach of Neutrosophic TOPSIS and LINMAP Method for Developing Enterprise Selection Criteria
- ID:184 **A Anna Sheela**, Saradha Gangadharan college, Puducherry Modified Approach for Multi-Objective Integer Linear Programming Problems
- ID:81 **G. Nithyakala**, Thiagarajar College of Engineering, Madurai Integrating Fuzzy Promethee 2 Language Modelling Method for Detecting Intrinsic Plagiarism

DAY 03 (09 FEB, 2024)

Contributory Talks (11:50—13:00) - Panel - 01 GMeet Link: https://meet.google.com/osi-kbep-noi

Session Chairs: Dr. Gunasekaran N, Beibu Gulf University, China Dr. Kalyan Manna, Vellore Institute of Technology, Chennai

- ID:07 J. Vimala , Alagappa University, Karaikudi Revolutionizing Wind Energy: A Novel Approach to Site Selection Employing Lq* q-Rung Orthopair Multi-Fuzzy Soft Matrix
- ID:42 **Ramasamy Saravanakumar**, Shenzhen MSU BIT University, China Memory Sampled-data Control for Fuzzy Chaotic Systems: An Extended Looped Functional Approach
- ID:181 **Girija P**, Vellore Institute of Technology, Vellore Coupling memory sampled data control for PMSM model with stochastic disturbances
- ID:65 Kavitha.P , Theivanai Ammal College for Women (Autonomous),
 Villupuram
 Application Of Butcher'S Seventh Order Rk Methods In Magdm Using Itrfs

Contributory Talks (11:50—13:00) - Panel - 02 GMeet Link: https://meet.google.com/pif-xxps-rhg

- Session Chairs: Dr. Nagamani G, Gandhigram Rural Institute, Gandhigram, Dindigul, India Dr. Dhivya M, Vellore Institute of Technology, Chennai
- ID:69 **Praveen Kumar Lagisetty**, JNTUH College of Engineering, Hyderabad Fixed points of Additive Cellular Automata in General Systems
- ID:114 **Kamatchi A**, SRM Institute of Science and Technology, Kattankulathur Modeling SEIR Epidemics with a Finite Automaton
- ID:117 **M. Suguna**, Saveetha Institute of Medical and Technical Sciences, Chennai Comparison of homotopy perturbation method and new analytical method for solving nonlinear equations in the enzymatic reaction of glucose in a Spherical matrix

Contributory Talks (11:50—13:00) - Panel - 03 GMeet Link: https://meet.google.com/nva-jkew-uyn

Session Chairs: Dr. Tamilalagan P, Amrita Vishwa Vidyapeetham, Coimbatore, India

Dr. Rajivganthi C, Vellore Institute of Technology, Chennai

- ID:149 **Gandhimathi R**, Vellore Institute of Technology, Vellore Numerical Scheme for Attractors of Dynamical Systems with Fractal Fractional Derivatives
- ID:59 **R Sivasangari**, PSGR Krishnammal College for Women, Coimbatore Controllability of impulsive fractional damped integrodifferential systems with distributed delays
- ID:204 **T. Sathiyaraj**, UCSI University, Malaysia Finite time stability of non-instantaneous impulsive large-scale neutral fractional stochastic system
- ID:156 **A. Vanav Kumar**, National Institute of Technology, Arunachal Pradesh Fractal fractional unsteady time derived Casson fluid flow past the parallel plates with top plate oscillating in the direction of flow

Contributory Talks (11:50—13:00) - Panel - 04 GMeet Link: https://meet.google.com/gbo-jdbo-juy

Session Chairs: Dr. Vinay Madhusuthanan, MIT, Manipal, India Dr. Uma Maheswari S, Vellore Institute of Technology, Chennai

- ID:64 J. Suja , Holy Cross College, Nagercoil The Steiner Global Domination Number of a Graph
- ID:118 **Vinodhini K**, SRM Institute of Science and Technology, Kattankulathur Generative power of Hyper-edge replacement graph P system
- ID:105 Mariya C Joy , Bharata Mata College, Kerala On Some Bounds of Fuzzy Secure Domination Number
- ID:148 **D. Abisha**, Scott Christian College (Autonomous), Nagercoil The geodetic and the Steiner numbers of a hollow coronoid HC(C1,C2,C3)

Contributory Talks (11:50—13:00) - Panel - 05 GMeet Link: https://meet.google.com/rto-sbvr-ukw

Session Chairs: Dr. Veeramani S, Shiv Nadar University, Chennai, India Dr. Ramesh Babu N, Vellore Institute of Technology, Chennai

- ID:68 **Pushpa Nb**, JSS Medical College, Mysore Automated Detection of Breast Lump or Masses through Mammogram Image Analysis
- ID:199 Ansmol George A, Indian Institute of Information Technology, Kottayam A Comprehensive Analysis on Regularisation Techniques in Image Denoising Autoencoder
- ID:217 **Thomas Abraham J V**, Vellore Institute of Technology, Chennai Enhancing Disease Identification Through Machine Learning and Swarm Intelligence-Based Feature Selection
- ID:72 Geethika P R, Vellore Institute of Technology, Chennai Improving Chemical-Induced Pulmonary Toxicity Prediction with Ensemble Learning and Explainable AI
- ID:192 **B. Ravikumar**, CSIR Central Leather Research Institute, Chennai Data driven inference to study the relationship between FDI and GDP using multiple mediation model with special reference to leather sector