

## ICRDM 2022 Paper Presentation Schedule

## Day 1- Link 2

Day 1: 24/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Prof. (Dr.) Jonnalagadda Venkateswara Rao, United States International University - Africa, Nairobi, Kenya.

**Session Chair 2:** Dr. K. Karthika, VIT, Vellore, India

Time Manuscript ID	Presenting Author and Title
10:30-10:45 8649	Dr. Ibrahim Nonkane, Université Thomas Sankara, Burkina Faso, Specht Polynomial and modules over the Weyl Algebra II
10:45-11:00 2998	Dr. Muhammad Mansur Zubairu, Bayero University, Kano Nigeria On certain semigroups of order-decreasing full contraction mappings of a finite chain
11:00-11:15 2596	Dr. E.S.R. Ravi Kumar, V.R.Siddhartha Engineering College Kanuru, India Interpratation of Skew Ideals with relators in Join Skew semilattice

Day 1: 24/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr T N KAVITHA, Sri Chandrasekharendra Saraswathi viswa Mahavidyalaya University Enathur Kanchipuram, India

**Session Chair 2:** Dr RAJASEKARAN G, VIT, Vellore

Time Manuscript ID	Presenting Author and Title
11:30-11:45 2221	Mr. Enoch Suleiman, Federal University Gashua Yobe State, Nigeria. New Classes of the Quotient Permutation BN-Algebras in Permutation BN-Algebras
11:45-12:00 8366	Dr. M. Premkumar, Sathyabama Institute of Science and Technology, India. On Algebraic Characteristics of $\mu$ -Anti-Q-Fuzzy Subgroups
12:00-12:15 6308	Dr. Md Salim Masud Molla, Darjeeling Govt.College, India. Correspondence between hyperideals and regular equivalence relations on multiplicative ternary hyperring
12:15-12:30 1709	Prof. Dr. Shuker Mahmood Khalil, College of Science University of Basrah Basrah, Iraq $N_{(\alpha)}$ - Separation Axioms in Topological Spaces
12:30-12:45 3948	Dr. Janani T, Vellore Institute of Technology, India. Third hankel determinants $h_3(1)$ and $h_3(2)$ for bi-starlike functions
12:45-13:00 7283	Ms. Surya M, Muthurangam Govt Arts College (A), India Study of MBJ - Neutrosophic level sets in beta - Ideal

Day 1: 24/08/2022 15:30 – 16:15 (GST)

**Session Chair:** Dr. A. Parthiban, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
15:30-15:45 0858	Ms. S. Kaviya, The Gandhigram Rural Institute-Deemed to be University, India. Detection of TCC-Domination number for some product related graphs
15:45-16:00 0836	Mr. L. Praveenkumar, The Gandhigram Rural Institute-Deemed to be University, India. Computing the CD-number of strong product of graphs
16:00-16:15 0785	Ms. C Yogalakshmi, Vellore Institute of Technology, India. Sigma chromatic number of Mycielski transformation of graphs

Day 1: 24/08/2022 16:30 – 18:00 (GST)

**Session Chair:** Dr Vishwajeet S. Goswami, Chandigarh University, India.

Time Manuscript ID	Presenting Author and Title
16:30-16:45 8106	Mrs. Girija M, Vellore Institute of Technology, India. A Specific key sharing protocol among multi users using non-commutative group for Telecare Medicine Information System
16:45-17:00 2577	Dr. Chikine ashok kumar, Palamuru University, India. Corrigendum to "a note on finite pst-groups"
17:00-17:15 3029	Ms. Shanmugapriya K P, Saveetha school of Engineering, India. A novel concept of neutrosophic set in z-algebra
17:15-17:30 2615	Ms. Vrinda Mary Mathew, Christ (deemed to be university), India. Non-zero component graphs of vector spaces over finite fields.
17:30-17:45 9371	Ms. Kuppan A, Vellore Institute of Technology, India. Arithmetic Decomposition of Zero Divisor Graph in a Commutative Ring
17:45-18:00 0256	Mrs. V. Saranya, Periyar University, India. A Statistical Analysis of Strip Plot Design Using Some Special Types of Graphs

**Day2- Link 2**

Day 2: 25/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Manimaran A, Vellore Institute of Technology, Vellore**Session Chair 2:** Dr.D V Chandrashekhar, Vivekananda Institute Of Technology

Time Manuscript ID	Presenting Author and Title
10:30-10:45 4350	Dr. Abdullahi Umar, Khalifa University, United Arab Emirates. Some combinatorial results for partial and full symmetric semigroups
10:45-11:00 7971	Ms. M. Kalaimathi, Vellore Institute of Technology, India. Computation of Complete Partite k-Zumkeller Graphs
11:00-11:15 5218	Mr. Arief Hakim, Institut Teknologi Bandung Jalan Ganesa 10, Indonesia. Forecasting extended CoVaR through an asymmetric model approach for crypto and non-crypto assets

Day 2: 25/08/2022 11:30 – 13:00 (GST)

Session Chair: Dr. P. Devaki, SRM Institute of Science and Technology

Time Manuscript ID	Presenting Author and Title
11:30-11:45 3260	Mrs. N Bhargavi, Vellore Institute of Technology, India. MHD-Conjugate Heat Transfer Analysis on a Viscous Fluid past a Vertical Permeable Plate.
11:45-12:00 6586	Mrs. Shyamala venkatraman, Government Science College, India. Onset of magneto-darcy-rayleigh-benard convection in a two layer system influenced by local thermal non-equilibrium
12:00-12:15 3770	Dr. N Maheshbabu, Dr. S.R.K Government Arts College, India. An Aligned Magnetic effect on Unsteady Heat Transfer Flow of non-Newtonian Fluid through Porous Medium
12:15-12:30 8486	Ms. Ansa Mathew, Mount Carmel College (Autonomous), India. Linear and Non-Linear Analysis of Triple Diffusive Convection in a Rotating Fluid Layer Under Sinusoidal and Non-Sinusoidal Modulation of the Rotation Speed
12:30-12:45 6942	Ms. Sandra Jestine, CHRIST (Deemed to be University), India. Linear and non-linear analysis of Rayleigh-Benard Magneto-convection in a micropolar fluid occupying different enclosures
12:45-13:00 9766	Ms. Jeevitha S, Thiruvalluvar University, India. Radiative Casson Fluid Flow with Chemical Reaction on a Rotating Cone through Porous medium

Day 2: 25/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr Sharief Basha S, Vellore Institute of Technology, Vellore

**Session Chair 2:** Kaspar S, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
15:30-15:45 6633	Ms. Lian Mathew, Stella Maris College, India . Secure Vertex Cover Pebbling Number for Families of Trees
15:45-16:00 5028	Mrs. R. Stalin Mary, VIT, India. Communication cost problem of certain graphs
16:00-16:15 8699	Mr. Rohith Raja M, CHRIST (Deemed to be University), India. Some new results on ei-Signed Graphs of Graphs

Day 2: 25/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Dr.Balamurugan B J, Vellore Institute of Technology, Chennai Campus

**Session Chair 2:** Dr.Jagadeesha R D, University of Mysore

Time Manuscript ID	Presenting Author and Title
16:30-16:45 9710	Ms. A. Asha Rani, PSG College of Arts & Science, India. Mobius Cordial Labeling of Graphs.
16:45-17:00 6486	Dr. Fong Wan Heng, Universiti Teknologi Malaysia The De Bruijn Graph of Sequential Repetition of Patterns in DNA Strings
17:00-17:15 7749	Ms. Thilsath Parveen S, Vellore Institute of Technology, India. Independent Domination Number of Cyclic and Acyclic Graphs
17:15-17:30 0907	Dr. Suriya prabha, Idhaya College for Women, India. Bounds on Alpha Split Domination in Graphs
17:30-17:45 5137	Mr. Dhivviyanandam I, St Xavier's College (Autonomous), India. Pebbling number and 2-pebbling property for the deleted independent edges of middle graphs of $f_n(\hat{f})$
17:45-18:00 4934	Ms. Rajeshwari S, Vellore Institute of Technology, India. Optimal Embedding of 3-Ary n-Cubes into certain Necklace graphs

### Day 3- Link 2

Day 3: 26/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr. M. YAMUNA, VIT, Vellore, India

**Session Chair 2:** Dr.K.Madhusudhan Reddy, University Of Technolgy and Applied Sciences, Shinas

Time Manuscript ID	Presenting Author and Title
10:30-10:45 6500	Dr. Eugen Mandrescu, Holon Institute of Technology, Israel. On Minimal Critical Independent Sets of Almost Bipartite non-König-Egerváry Graphs
10:45-11:00 0993	Dr. Umadevi Elangho, CNHS Zayed University, United Arab Emirates. A Subclass of Close-To-Convex Function Involving Srivastava-Tomovski Operato
11:00-11:15 2695	Mr. Sarathy R, Vellore Institute of Technology, India Even Prime Graph of a Ring

Day 3: 26/08/2022 11:30 – 13:00 (GST)

**Session Chair:** Dr.Repalle V N SrinivasaRao, Wollega University, Ethiopia

**Session Chair:** Dr. K.THIRUSANGU, S.I.V.E.T.COLLEGE, Chennai-73, INDIA

Time Manuscript ID	Presenting Author and Title
11:30-11:45 0374	Ms. Kartik Pise, Karnatak University, Dharwad, India. Applications of Neighbors Degree Sum of a Vertex on Zagreb Indices
11:45-12:00 5158	Mr.Junaid Basha M, Vellore Institute of Technology, India. Fuzzy Arithmetic Mean Approach for Solving Completely Fuzzy Multilevel Multiple Objective Linear Programming Problems.
12:00-12:15 4479	Dr. D.Kalpanapriya, Vellore Institute of Technology, India. Solving Moderated mediation model using interval data on fuzzy elevation.
12:15-12:30 2182	Dr. Roy Santiago, Vellore Institute of Technology, India. Packing Chromatic Number of Windmill related Graphs
12:30-12:45 9958	Dr. Jomon Kottarathil, St. Joseph's College, India. Selfpendant and Extremal Pendant Graphs.
12:45-13:00 2123	Dr. Selva Rani B, Vellore Institute of Technology, India. Integrating Fuzzy Soft Expert Set with TOPSIS for Improved Decision Making.

Day 3: 26/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Rozaini Roslan, ANNA Systems

**Session Chair 2:** Dr Vishwajeet S. Goswami, Chandigarh University, India

Time Manuscript ID	Presenting Author and Title
15:30-15:45 9622	Dr. K M Lakshmi, Universidad de Tarapaca, Chile. Darcy-benard convection of newtonian liquids and alloy nanoliquids in cylindrical enclosures
15:45-16:00 9269	Mr. Debasish gorai, NIT Arunachal Pradesh, India. Radiation and heat generation effect on MHD nanofluid flow with variable Darcy-Forchheimer porous medium.
16:00-16:15 1790	Mr. Sunendra shukla, NIT Arunachal Pradesh, India. Effect of heat source on hybrid nanofluid stagnation-point flow under the influence of induced magnetic field.

Day 3: 26/08/2022 16:30 – 18:00 (GST)

Session Chair:

Keywords:

Time Manuscript ID	Presenting Author and Title
16:30-16:45	
16:45-17:00	
17:00-17:15	
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17:45-18:00	

### Day 1 - Link 3

Day 1: 24/08/2022 10:30 – 11:15 (GST)

**Session Chair:** Dr. Shallu Sharma, Jammu university, India

Time Manuscript ID	Presenting Author and Title
10:30-10:45 1263	Ms Tamilarasi W, Vellore Institute of Technology, India Degree-Based Topological Indices and QSPR Analysis of Some Drugs Used in the Treatment of Dengue
10:45-11:00 0976	Dr. Mbekezeli Nxumalo, Rhodes University, USA Remote Subsets in Pointfree Topology
11:00-11:15 0422	Dr. Frank Vega, CopSonic, France Note on the Riemann Hypothesis

Day 1: 24/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Prof. Teodor Bulboaca, Babeş-Bolyai University, ROMANIA

**Session Chair 2:** Dr. Moumita Mandal, IIT Jodhpur

Time Manuscript ID	Presenting Author and Title
11:30-11:45 3724	Mrs. K. Saraswathi, Thiruvalluvar Government Arts College, India Some Topological Operators Using Neutrosophic Nano M Open Sets
11:45-12:00 2640	Mrs. K. Saraswathi, Thiruvalluvar Government Arts College, India Neutrosophic Nano M Continuous Mappings Via Neutrosophic Nano Topological Spaces
12:00-12:15 3802	Dr. Soshal Saini, Shaheed Mangal Pandey Govt. Girls PG College Madhavpuram, India. Approximation of functions in a weighted $L^p$ -norm by summability means of Fourier series
12:15-12:30 1794	Dr. Mohammad Al-Gharabli, King Fahd University of Petroleum and Minerals Saudi Arabia. A new decay estimate for a weakly dissipative viscoelastic suspension bridge
12:30-12:45 0733	Paramaguru N, Annamalai University, India, Modular colorings of corona product of some graphs
12:45-13:00 9223	Dr. Kwara Nantomah, C. K. Tedam University of Technology and Applied Sciences, Ghana. A Certain Generalization of the Gamma Function and its Associated Properties

Day 1: 24/08/2022 15:30 – 16:15 (GST)

**Session Chair:** Dr. D. Easwaramoorthy, Vellore Institute of Technology, Vellore.

Time Manuscript ID	Presenting Author and Title
15:30-15:45 5684	Anthoni Amali A, Auxilium college (Autonomous), India. Operations on Alternate Quadra - Submerging Polar (AQSP) Fuzzy Graphs and its Applications
15:45-16:00 2149	Dr. Talal Al Mutairi, Shaqra University, Saudi Arabia Control and Synchronization of a Modified Chaotic Finance System with Integer and Non-Integer Orders
16:00-16:15 7967	Dr Banani Dutta, Darjeeling Govt. College, India. A note on hyper relative (p, q) order of entire functions in the light of central index

Day 1: 24/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Dr. Swapna S Nair, Amity University, Dubai, UAE

**Session Chair 2:** Dr. G. Thirupathi, Ayya Nadar Janaki Ammal College, Sivakasi

Time Manuscript ID	Presenting Author and Title
16:30-16:45 4856	Ms. Achu aniyam, CHRIST (Deemed to be University), India. T-Connected Graph Topological Spaces
16:45-17:00 5825	Ms. P Reena Joice, Nirmala college for women, India. Generalized Pre- closed sets in Fermatean Neutrosophic Hypersoft Topological spaces
17:00-17:15 6710	Mr. K. C. Deshmukh, Swami Ramanand Teerth Nanded, India. Some Properties of Analytic Functions Connected with Hurwitz's- Double Zeta Function
17:15-17:30 7339	Mrs.T. Swaroopa Rani, Dr.B.R. Ambedkar Open University, India. A note on certain subclass of uniformly convex functions involving borel distribution series.
17:30-17:45 1249	Ms. Nadar Jenita Mary Masilamani Raja, SRM Institute of Science and Technology, India, Topological Analysis on Sombor Indices of Generalized Cartesian Graph Products
17:45-18:00 7278	Mrs. K. Kalaiselvi, Sri Vasavi College of Arts and Science, India. Method of construction for pbibd (2) using special types of graphs



### Day 2 - Link 3

Day 2: 25/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr. Rajesh Moharana, Vellore Institute of Technology, Vellore

**Session Chair 2:** Dr. Kalaivani K, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
10:30-10:45 0255	Ms. Dania Dallah, American University of Sharjah, United Arab Emirates, Outlier Detection using the Range Distribution
10:45-11:00	
11:00-11:15	

Day 2: 25/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr. Lakshmi Narayan Mishra, Vellore Institute of Technology, Vellore

**Session Chair 2:** Mubashir Unnissa, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
11:30-11:45 9123	M. Gayathri, Annamalai University, India. Efficiency of eco-friendly construction materials in interval valued picture fuzzy soft environment
11:45-12:00 3926	Dr. Ibrahim Nonkane, Université Thomas Sankara, Burkina Faso. Resultant of an equivariant polynomial system with respect to direct product of symmetric groups
12:00-12:15 3392	T. Umamakeswari, Annamalai University, India. Decision Making Problem based on Complex Picture fuzzy soft set using ELECTRE I Method
12:15-12:30 4864	R. Preethi, Annamalai University, India. Integrated tomato cultivation using Back Propagation Neural Network On Bipolar Fuzzy Sets
12:30-12:45 4122	G. Sathiyapriya, Annamalai University, India. Color Image Filtering using Convolutional Fuzzy Neural Network
12:45-13:00	

Day 2: 25/08/2022 15:30 – 16:15 (GST)

**Session Chair:** Nirmala P Ratchagar, Annamalai University, India

Time Manuscript ID	Presenting Author and Title
15:30-15:45 8989	Ms. Shamma Abdulla Yahlan Almazrouei, United Arab Emirates University, Al Ain, UAE. Thermogravitational convective flow in an enclosure containing a heated circular cylinder: a finite difference analysis via vorticity stream function approach.
15:45-16:00 9047	Mr. J. Bugga Ramulu, Osmania University, Hyderabad, India. An unsteady flow of fluid velocity, temperature and heat emission on MHD free convection flow of some nanofluids
16:00-16:15 1834	Dr. Victor Job, The University of the West Indies, Mona, Jamaica. Peristalsis and Taylor Dispersion of Solute in the Flow of Casson Fluid

Day 2: 25/08/2022 16:30 – 18:00 (GST)

**Session Chair:** Dr R Subba Rao, S R K R Engineering College, India

Time Manuscript ID	Presenting Author and Title
16:30-16:45 6461	Mr. Sahaya Vijay J, Vellore Institute of Technology, India. Computation of Wiener Descriptor for Melamine Cyanuric Acid Structure,
16:45-17:00 2112	Ms. Mishachandar, Vellore Institute of Technology, India. Automated Marine Acoustic Source Recognition System to Detect Bio Acoustic Events in Denoised Ocean Soundscape Data using Deep Learning,
17:00-17:15 7342	Prof. Geetha M, Bapuji Institute of Engineering and Technology, India. Exploring Vegetative Indices for Yield Prediction Using Sentinel 2 Data - A Study in a Select Region of Karnataka,
17:15-17:30 6640	Dr.S.PRAKASAM, A.V.V.M Sri Pushpam College(Autonomous), India. A Fuzzy Mathematical Model for The Parathyroid Hormone Secretion in Health Using Log Gamma Distribution,
17:30-17:45 7487	Mrs. Priya Satish, JAIN (Deemed-to-be University), India. Obesity in Children: A Mathematical Model.
17:45-18:00 5515	Mr. Tony Augustine, Vellore Institute of Technology, India. Packing Chromatic Number of Human Chain, Uniform (m, n)- Cyclic and Extension of Prism

### Day 3 - Link 3

Day 3: 26/08/2022 10:30 – 11:15 (GST)

**Session Chair:** BASARI KODI K, Ramco Institute of Technology

Time Manuscript ID	Presenting Author and Title
10:30-10:45 5398	Ms. G. Aruna, Auxilium College (Autonomous), India. Neutral - Bipolar fuzzy sets and its applications.
10:45-11:00 6640	Prakasam S, A.V.V.M Sri Pushpam College (Autonomous), India. A Fuzzy mathematical model for the parathyroid hormone secretion in health using log gamma distribution.
11:00-11:15 8678	N. Nishadevi, Annamalai University, India. Multi Criteria Decision Making with Bipolar Intuitionistic Fuzzy Soft Expert Sets

Day 3: 26/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** DR SR SUDHEENDRA, Presidency University, Bangalore

**Session Chair 2:** Dr. K. RAGHUNATH, Bheema Institute of Technology and Science, India

Time Manuscript ID	Presenting Author and Title
11:30-11:45 3471	Dr. R. Udhayakumar, Vellore Institute of Technology, India. Approximate controllability results for Volterra-Fredholm integro-differential equation of order $1 < r < 2$ .
11:45-12:00 1354	Ms. Vishalakshi A. B, Davangere University, India. System of highly nonlinear partial differential equations are mapped to highly nonlinear ordinary differential equations.
12:00-12:15 4085	Mrs. Maduru Lakshmi Rupa, Vellore Institute of Technology, India. An analytical approach for solving the generalised time fractional Fitzhugh-Nagumo equation via Shehu Adomian decomposition method.
12:15-12:30 3797	Mr. Agathiyan A, Vellore Institute of Technology, India. A study on various fractal interpolation functions in the Fourier transform.
12:30-12:45 5145	Mr. Thangaraj C, Vellore Institute of Technology, India. Fractals via Self-Similar Group of Fisher Contractions,
12:45-13:00 8669	Dr. D. Easwaramoorthy, Vellore Institute of Technology, India. Fuzzified Multifractal Dimensional Analysis for Human Monkeypox Infection.

Day 3: 26/08/2022 15:30 – 16:15 (GST)

**Session Chair:** Dr Om P Suthar, Malaviya National Institute of Technology Jaipur

**Session Chair:** Dr.Sujatha Ingishetty, Gulbarga University, Kalaburagi

Time Manuscript ID	Presenting Author and Title
15:30-15:45 3839	Dr. A Subramanyam Reddy, Vellore Institute of Technology, India. Pulsating flow of MHD couple stress nano fluid in a channel with viscous dissipation
15:45-16:00 8031	Dr. Manikandan, St. Joseph's institute of technology, India. Digital Time: A Finite Field T_F
16:00-16:15 6388	Ms. Rajani punukollu, Acharya Nagarjuna University, India. $\mathcal{A}E$ • eutrosophic N-ideals and N-filters of BF-algebra

Day 3: 26/08/2022 16:30 – 18:00 (GST)

Session Chair:

Keywords:

Time Manuscript ID	Presenting Author and Title
16:30-16:45	
16:45-17:00	
17:00-17:15	
17:15-17:30	
17:30-17:45	
17:45-18:00	

### Day 1 - Link 4

Day 1: 24/08/2022 10:30 – 11:15 (GST)

**Session Chair:** C Monica, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
10:30-10:45 4045	Prof. Mo'tassem Al-arydah, Khalifa University, UAE Choosing between vaccine efficacy and vaccine price: mathematical model for COVID19
10:45-11:00 7931	Mrs. Pullooru Bhavana, Vellore Institute of Technology, India. Lomax distribution for uncertain parameters.
11:00-11:15	

Day 1: 24/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr. Prasanna BMR, VTU

**Session Chair 2:** Dr R Udhayakumar, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
11:30-11:45 1004	Prof. Fadi Awawdeh, The Hashemite University Zarq-Jordan High-Precision Quadrature Schemes for Fredholm Integral Equations
11:45-12:00 6273	Dr. S. Salim Messaoudi, University of Sharjah, Saudi Arabia. A stability result for a nonlinear damped suspension-bridge problem
12:00-12:15 8365	Dr. Armen Bagdasaryan, American University of the Middle East Egaila, Kuwait. Some Analytic and Arithmetic Properties of Integral Models of Algebraic Tori
12:15-12:30 2333	Prof. Alberto Gandolfi, New York University Abu Dhabi, United Arab Emirates, Dutch Books for linear ODE's
12:30-12:45 2261	Dr. Kwara Nantomah, C. K. Tedam University of Technology and Applied Sciences, Ghana. On a New Generalization of the Exponential Integral Function and Some Associated Properties
12:45-13:00 3981	Dr Md Azizul Hoque, Sreegopal Banerjee College, India. A Note on $(p,q)$ th-Proximate Order and $(p,q)$ th -Proximate Type of Entire Function

Day 1: 24/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr. Maimouna Said Al Manthari, UTAS-Ibri, Oman

**Session Chair 2:** Dr. FADUGBA, Sunday Emmanuel, Ekiti State University, Ado Ekiti, Nigeria

Time Manuscript ID	Presenting Author and Title
15:30-15:45 4824	Prof. Tzon-Tzer Lu, National Sun Yat-sen University, Taiwan. Three Types of Adomian Solutions for First Order Linear PDE Systems
15:45-16:00 9273	Ms. Manisha Krishna Naik, Tumkur University, India An application of the Caputo fractional domain on rumor dynamical model
16:00-16:15	

Day 1: 24/08/2022 16:30 – 18:00 (GST)

**Session Chair:** Dr. Usha, Bharathiyar University, Coimbatore, India

Time Manuscript ID	Presenting Author and Title
16:30-16:45 2734	Mr. Abin Thomas, Vellore Institute of Technology, India. A sustainable circular economic supply chain system with waste minimization using 3D printing and emissions reduction in plastic reforming industry
16:45-17:00 403	Mrs. Abinaya G, SRM Institute of Science and Technology, India. Sentiment Analysis to detect mental depression
17:00-17:15 559	Ms. Jeni Seles Martina D, Vellore Institute of Technology, India. The Relationship and Energy of Multi-Valued Neutrosophic Matrix and Hesitant Neutrosophic Matrix in Multi-Criteria Decision-Making Applications
17:15-17:30 0742	Noha Youssef, The American University in Cairo, Egypt, presenting a flexible class of INAR(p) models to analyze the COVID-19 series in Mauritius
17:30-17:45	
17:45-18:00	

## Day 2 - Link 4

Day 2: 25/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr. G. Arul Joseph, SRM Institute of Science and Technology

**Session Chair 2:** Dr. Pushpa B V, University of Technology and Applied Sciences, Nizwa, Oman

Time Manuscript ID	Presenting Author and Title
10:30-10:45 4383	Mr. Varun Bose C S, Vellore Institute of Technology, India. A note on nonlocal controllability of Hilfer fractional differential equations via almost sectorial operator
10:45-11:00 2059	Mr. Sivasankar S, Vellore Institute of Technology, India. A new conversation on the existence of Hilfer fractional stochastic Volterra-Fredholm integro-differential inclusions via almost sectorial operators
11:00-11:15 9501	Ms. Premakumari R N, Tumkur University, Tumakuru, India. Dynamical analysis of the atmospheric circulation model in the fractional framework.

Day 2: 25/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr C V Vinay, JSS Academy of Technical Education, Bangalore

**Session Chair 2:** Dr. Sanjay Kumar Mohanty, VIT Vellore, India

Time Manuscript ID	Presenting Author and Title
11:30-11:45 7022	Mr. Mallanagoud Mulimani, Bangalore University, India. A novel scheme for the hyperbolic partial differential equation through fibonacci wavelets
11:45-12:00 3228	Ms. S. Kirusakthika, Bharathiar University, India. A comparative study on hybrid nanoparticles with Newtonian/non-Newtonian base fluids over a vertical rotating cone with magnetic field.
12:00-12:15 8888	Mrs. Yashodha S, Bharathiar University, India. Effect of uniform heat generation or absorption on magnetic and non-magnetic nanoparticles in Water-Ethylene glycol (50:50) mixture.
12:15-12:30 2427	Mr. Rajamani S, Vellore Institute of Technology, India. Hydromagnetic non-Newtonian nanofluid flow between parallel walls with entropy generation.
12:30-12:45 3528	Mr. K Govindarajulu, Vellore Institute of Technology, India. Hydromagnetic pulsating flow of non-Newtonian nanofluid between two walls with thermal radiation.
12:45-13:00	

Day 2: 25/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** M Chandru, Vellore Institute of Technology, Vellore

**Session Chair 2:** Dr. GIRISH N, JSS Academy of Technical Education, Bengaluru, India.

Time Manuscript ID	Presenting Author and Title
15:30-15:45 5061	Ms. Vidya Shree R, Tumkur University, India. Accurate laguerre parseval frame technique to solve initial valued problems
15:45-16:00 2413	Mr. Salman Zaheer, VIT University, India Iterative methods for approximating fixed points of various nonexpansive mappings in Banach spaces
16:00-16:15 1097	Ms. Davita Devi Soibam, CHRIST (Deemed to be University), India. Darcy-Be'nard convection using third-type boundary condition at the upper surface.

Day 2: 25/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Dr. Animasaun, I. L., United Arab Emirates University, Al Ain, Abu Dhabi, UAE

**Session Chair 2:** Kiran S , Nitte Meenakshi institute of technology Bangalore

Time Manuscript ID	Presenting Author and Title
16:30-16:45 9749	Dr. P. Lakshminarayana, VIT Vellore, India. Convective flow of MHD non-Newtonian nanofluids on a chemically reacting porous sheet with Cattaneo-Christov double diffusion.
16:45-17:00 3660	Mrs. Sneha Kolkar Nanjappa, Davanagere University, India. Highly Nonlinear differential equation arising in laminar boundary layer flow.
17:00-17:15 2744	Dr. Meghana J, Mount Carmel College, India. Individual effect of sinusoidal/non-sinusoidal concentration modulation on ferroconvection in Boussinesq-Stokes Suspension.
17:15-17:30 762	Ms. T Arul Selvamary Bengaluru City University, India. Uniform and uniform temperature gradients and magnetic field impact on the onset of Darcy Rayleigh Benard convection in a composite system filled with couple stress fluid.
17:30-17:45 5969	Dr. G Kalpana, Mount Carmel College, India. Numerical study on the combined effects of Brownian motion and thermophoresis on an unsteady magnetohydrodynamics nanofluid boundary layer flow,
17:45-18:00 5526	Mr. R Mahesh, Davanagere university, India. Mathematical modelling of laminar boundary layer flow due to porous shrinking sheet with heat transfer.



### Day 3 - Link 4

Day 3: 26/08/2022 10:30 – 11:15 (GST)

**Session Chair:**

**Keywords:**

Time Manuscript ID	Presenting Author and Title
10:30-10:45	
10:45-11:00	
11:00-11:15	

Day 3: 26/08/2022 11:30 – 13:00 (GST)

**Session Chair:**

**Keywords:**

Time Manuscript ID	Presenting Author and Title
11:30-11:45	
11:45-12:00	
12:00-12:15	
12:15-12:30	
12:30-12:45	
12:45-13:00	

Day 3: 26/08/2022 15:30 – 16:15 (GST)

**Session Chair:**

**Keywords:**

Time Manuscript ID	Presenting Author and Title
15:30-15:45	
15:45-16:00	
16:00-16:15	

Day 3: 26/08/2022 16:30 – 18:00 (GST)

**Session Chair:**

**Keywords:**

Time Manuscript ID	Presenting Author and Title
16:30-16:45	
16:45-17:00	
17:00-17:15	
17:15-17:30	
17:30-17:45	
17:45-18:00	

### Day 1 - Link 5

Day 1: 24/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Prof. M. C. Raju, JNTUACEP (A), Pulivendula

**Session Chair 2:** Dr. Sandip Saha, VIT Chennai, India

Time Manuscript ID	Presenting Author and Title
10:30-10:45 0824	Prof. Ajaykumar M, Maharaja Institute of Technology, India. Effect of Variable Viscosity on Magneto hydrodynamics Mixed Convection Flow from a Vertical Flat Plate
10:45-11:00 0331	Ms. M. Padma Devi, VIT-AP University India. Heat transfer effects on the oscillatory MHD flow in a Porous Channel with two Immiscible fluids
11:00-11:15	

Day 1: 24/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr. N. Sandeep, Central University of Karnataka

**Session Chair 2:** Prof Prasannakumara B C Davangere University, India

Time Manuscript ID	Presenting Author and Title
11:30-11:45 1702	Dr. Manjunatha N, REVA University Rukmini Knowledge Park, India. Combined Effects of Magnetic field and Constant Heat Source on Double Diffusive Convection in Fluid-Porous Structure
11:45-12:00 6458	Dr. Kiran S, NITTE Meenakshi Institute of Technology, India. Buoyant Convection of Nanofluid in a linearly heated annular geometry
12:00-12:15 6252	Dr Keerthi Reddy N, Ulsan National Institute of Science and Technology, South Korea. Hybrid Nanofluid Flow and Thermal Transport Analysis in a Vertical Annular Enclosure: Effect of Linear and Uniform Heating
12:15-12:30 5155	Dr. Pushpa B V, University of Technology and Applied Sciences Nizwa, Oman. Conjugate Buoyant Convection of Nanoliquids in a Porous Saturated Annulus
12:30-12:45 9709	Prof. Ravindra P, East Point College of Engineering and Technology, India. Thermosolutal Convection in a Tilted Porous Parallelogrammic Enclosure with Discrete Heating and Salting
12:45-13:00 9654	Dr. Victor M. Job, The University of the West Indies Mona Campus Kingston-7, Jamaica. Finite Element Analysis of Unsteady Dispersion in Casson Fluid Flow

Day 1: 24/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr. Rex Macedo, University of Technology and Applied Sciences, Ibri, Oman

**Session Chair 2:** Dr. A. Subramanyam Reddy, VIT, Vellore-632014, Tamil Nadu, India.

Time Manuscript ID	Presenting Author and Title
15:30-15:45 6853	Ms. Komal Goyal, VIT-AP University, India. Hydromagnetic two-layered immiscible fluid flow with heat source
15:45-16:00 9836	Ms. Revathi A, Presidency School, India. An application of generalized Fourier and Fick's law over a different non-Newtonian fluid
16:00-16:15 6298	Mr. Vishwanatha S, Jain University, Bangalore, India. Influence of non-uniform heating on buoyant convection of nanofluid in an inclined parallelogrammic porous enclosure

Day 1: 24/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Dr. Mani Sankar, UTAS-Ibri, Oman

**Session Chair 2:** Dr. Seethi Reddy Reddisekhar Reddy, Chennai Institute of Technology

Time Manuscript ID	Presenting Author and Title
16:30-16:45 6542	Mr. H. A. Kumara Swamy, Presidency University Rajankunte, India. Thermal and entropy management of nanofluid in a discretely heated inclined square geometry
16:45-17:00 0789	Mr. Laltesh, Radiation and chemical reaction effects on the boundary layer MHD Casson fluid on a vertical plate embedded in the non-Darcy porous medium taking Soret and Dufour effects
17:00-17:15 7248	Dr. Riya Baby, CHRIST (Deemed to be University). The effect of rotation on the onset of rayleigh benard-marangoni convection in a micropolar fluid
17:15-17:30 0914	Mr. Kapil Dev, MNIT Jaipur, India. Linear and global stability analyses of double-diffusive convection in a Darcy porous layer established by inclined temperature gradient and incorporating the Soret effect
17:30-17:45 4288	Ms. Ananth Subray P V, Reva University, India. Dynamics of heat transfers analysis of convective-radiative fins with variable thermal conductivity and heat Generation: DTM Approximations
17:45-18:00 3719	Dr. Devulapalli RVSRK Sastry, SASTRA Deemed to be University, India. Effect of squeezing on an unsteady MHD micropolar bio convection fluid through two parallel plates

## Day 2 - Link 5

Day 2: 25/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr.A.K. Abdul Hakeem, Bharathiar University, Coimbatore

**Session Chair 2:** R.Tamizharasi, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
10:30-10:45 8738	Mr. Gunisetty Ramasekhar, Vellore institute of technology, India. Entropy generation on EMHD Darcy-Forchheimer flow of Carreau hybrid nanofluid over a permeable rotating disk with radiation and heat generation: Homotopy perturbation solution
10:45-11:00 1286	Ms. Akanksha Bansal, MNIT Jaipur, India. Onset of porous convection in a viscoelastic fluid using an internal heat source under local thermal non-equilibrium
11:00-11:15 9241	Mr. Dinesh Singh Bhandari, National Institute of Technology, India. Transmission of SARS-COV-2 through Saliva Movement: A Fluid Dynamics Approach

Day 2: 25/08/2022 11:30 – 13:00 (GST)

**Session Chair:** Prof. Suripeddi Srinivas, VIT-AP University, Inavolu, Amaravati -522 237, INDIA

**Session Chair:** Dr. T. Poornima, Vellore Institute of Technology

Time Manuscript ID	Presenting Author and Title
11:30-11:45 0300	Ms. Tanuja T N, Sree siddaganga college of Arts, Science and Commerce for women, India. Heat and mass transfer analysis of aligned conducting fields in the presence of Casson hybrid nanofluid with radiation in an inclined channel
11:45-12:00 1376	Mr. Jeevankumar, Central University of Karnataka, India. Impact of an induced magnetic field on the flow of cross nano liquid above a stretched region
12:00-12:15 3897	Mrs. Arshiya Kousar K, Reva University, India. Effect of viscosity variation and slip velocity on the squeeze film characteristics between a cylinder and a plane plate with couple stress fluid
12:15-12:30 2732	Mr. B. Chandra sekhar, GITAM (Deemed to be University), India.

	Analytical study on Unsteady MHD Convective flow past porous medium past an infinite vertical plate.
12:30-12:45 4771	Mr. T. Maranna, Davangere university, India. Impact of radiation on similarity solution to laminar boundary layer flow through a permeable media with mass transpiration.
12:45-13:00 6740	Dr. Abhishek Kumar Singh, Vellore Institute of Technology, India. Boundary layer forced convective flow of non-Newtonian Casson nano fluid over vertical plate - A numerical study

Day 2: 25/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr. Thameem Basha H, Chennai Institute of Technology

**Session Chair 2:** Dr Anne Susan Georgena S, Anna University, Chennai

Time Manuscript ID	Presenting Author and Title
15:30-15:45 5286	Ms. Noor Arshika S, CHRIST (Deemed to be University), India Study of Pre-Chaotic and Post-Chaotic Regimes in Mono-Nanofluids and Hybrid-Nanofluid for a Rayleigh-Bénard Convection Problem
15:45-16:00 6663	Mr. M.Dinesh kumar, Gitam school of sciences, India Comparative analysis of dual dynamical slips on hydro-magnetic flow in a suspension of water-based hybrid nanoparticles with Fourier flux.
16:00-16:15 1808	Ms. Keerthana S, CHRIST (Deemed to be University), India Triple Diffusive Convection in a Casson Fluid layer with Cross diffusion effects

Day 2: 25/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Dr.K.Ramesh Babu, Osmania University

**Session Chair 2:** Dr. Khaleel Ahmed, University of Technology and Applied Sciences, Suhar, Oman

Time Manuscript ID	Presenting Author and Title
16:30-16:45 7404	Mr. K.Sakkaravarthi , Vellore Institute of Technology, India. Entropy generation on hybrid nanofluid slip flow across a Curved Stretching Sheet with thermal radiation in Semi-Analytical and Numerical Simulations
16:45-17:00 0498	Dr. P. Bala Anki Reddy, Vellore Institute of Technology, India. Biomedical aspects of entropy generation on electromagnetohydrodynamic blood flow of hybrid nanofluid with nonlinear thermal radiation
17:00-17:15 7760	Mr. Niraj Rathore, Central university of Karnataka, India. Effects of GO-TiO <sub>2</sub> hybrid particles on blood flow through stenosis artery: A nano drug delivery application
17:15-17:30 1342	Dr. N.Indumathi, Sri Ramakrishna Engineering College, India. Heat dissipative MHD forced convective boundary layer flow of SiO <sub>2</sub> /H <sub>2</sub> O past a flat sheet.
17:30-17:45	Mr. Kiran, GITAM University Bangalore, India.

8118	Nonlinear Boussinesq and Rosseland approximations on 3D flow in an interruption of Ternary nanoparticles with various shapes of densities and conductivity properties.
17:45-18:00 7113	Ms. M Vijatha, Vellore Institute of Technology, India. Entropy optimization on MHD flow of non-Newtonian hybrid nanofluid with Cattaneo-Christov heat flux: A comparative study on stretching cylinder and sheet.

### Day 3 - Link 5

Day 3: 26/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr. K. S. Balamurugan, RVR & JC College of Engineering, Acharya Nagarjuna University, Guntur.

**Session Chair 2:** Dr. H. Niranjan, Vellore Institute of Technology, Vellore

Time Manuscript ID	Presenting Author and Title
10:30-10:45 9207	Mrs. Pavithra K M, REVA University, India. Heat and mass transport analysis in radiative chemically reactive two-phase flow of Kerosene-GO and Kerosene-GO+MoS <sub>2</sub> fluids through a porous medium.
10:45-11:00 3725	Mrs. Geetika, REVA University, India. Magnetic field and Heat transfer analysis of couple stress fluid flow in an inclined channel with temperature dependent viscosity
11:00-11:15 5843	Ms. Umadevi K B, Tumkur University, Tumakuru, India. An aligned magnetic field impact on non-newtonian fluid boundary-layer flow across a wedge subjected to slip effects.

Day 3: 26/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr. M S Jagadeesh Kumar, VIT, Vellore, India

**Session Chair 2:** Dr. Satyanarayana Badeti, VIT-AP University, India

Time Manuscript ID	Presenting Author and Title
11:30-11:45 3159	Mr. Suresha R , Jain (Deemed-to-be University), India. Combined Effect of Magneto Hydrodynamics, Couple Stress and Viscosity Variation on Squeeze Film characteristics on Cylinder and a Rough Flat Plate.
11:45-12:00 4427	Ms. Shobha K C, Tumkur University, India. Thermodynamical analysis of casson nanofluid in a channel impacted by inclined MHD and suction/injection using Buongiorno's model.
12:00-12:15 1125	Mrs. Shivaleela Patil, Gulbarga University, India.

	Ramification of heat generation/absorption on conducting convective flow in a microchannel.
12:15-12:30 6390	Mr. Chandan K G, Tumkur university, India. MHD Double diffusive in mixed convective flow of Williamson nanofluid through porous medium.
12:30-12:45 9269	Mr. Debasish gorai, NIT Arunachal Pradesh, India Radiation and heat generation effect on MHD nanofluid flow with variable Darcy-Forchheimer porous medium.
12:45-13:00 9986	Ms. Anusha T, Davangere University, India. Mixed convective radiative flow and heat transfer of Casson fluid with CNTs and heat source/sink: An analytical study.

Day 3: 26/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr. Ram Prakash Sharma, National Institute of Technology Arunachal Pradesh

**Session Chair 2:** Dr Kushal Sharma, Malaviya National Institute of Technology Jaipur, India

Time Manuscript ID	Presenting Author and Title
15:30-15:45 6853	Ms. Komal Goyal, VIT-AP University, India. Hydromagnetic two-layered immiscible fluid flow with heat source.
15:45-16:00 8194	Dr. Nahid Fatima, Prince Sultan University, Saudi Arabia. Modified VIM for the Solutions of Gas Dynamics.
16:00-16:15 1693	Dr. K Venkatadri, Indian Institute of Information Technology, India, Simulation of two-phase nanofluid model for a quadratic natural convection of magnetohydrodynamic flow in a square enclosure with thermal radiation effect.

Day 3: 26/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Dr S Vijayakumar Varma, Reva University, India

**Session Chair 2:** Dr. Abhishek Kumar Singh, VIT Chennai, India

Time Manuscript ID	Presenting Author and Title
16:30-16:45 6983	S Charles, PSG College of Arts and Science, India. Effect of Viscous Dissipative on a Casson Nanofluid flow over a flat surface
16:45-17:00 5580	Dr. Sameena Tarannum , CHRIST (Deemed to be University), India Triple diffusive convection in a horizontal layer of water with aqueous solutions.
17:00-17:15 2039	Mr. S Abhilash anand kumar, GITAM [deemed to be university, India Heat and mass transfer on Unsteady MHD convective flow through porous medium between two vertical plates with Chemical reaction.
17:15-17:30 8360	Ms. Deepa R Acharya, Bangalore City University, India. Triple Diffusive Non-Darcian Benard Marangoni Convection in a composite layer with temperature dependent heat source,
17:30-17:45	Dr. Reena Nandal, Christ (Deemed to be University), India.



4647	Rayleigh-Bénard ferroconvection with rough boundary condition on velocity and Robin boundary condition on temperature.
17:45-18:00 2064	Ms. Gayathri M, CHRIST (Deemed to be University), India. Study of Marangoni convection in hybrid nanoliquids in inclined geometry.

### Day 1 - Link 6

Day 1: 24/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr. Rajendran P, VIT Vellore, India

**Session Chair 2:** Dr. Purusotham Singamsetty, VIT Vellore, India

Time Manuscript ID	Presenting Author and Title
10:30-10:45 0819	Ms R. Harini, Vellore Institute of Technology, India. Performance assay of a M[X]G1 retrial queue with Second Discretionary Service under Bernoulli Vacation, Server Breakdowns and Consumer Balking
10:45-11:00 3185	Mr. N. Micheal Mathava Visakan, Vellore Institute of Technology, India. Performance scrutiny of an MG1 retrial queue with Two-Phase Service and Preemptive Resume under working vacations and working breakdowns
11:00-11:15	

Day 1: 24/08/2022 11:30 – 13:00 (GST)

**Session Chair:** Dr. K. Kavitha, Vellore Institute of Technology

Time Manuscript ID	Presenting Author and Title
11:30-11:45 7854	Mrs. Daisyjose D, SRM Institute of Science and Technology, India. Algorithmic Testing of Special Partial Word
11:45-12:00 5255	Dr. Vishal Patil, Jain University, India. Nonlinear Programming Model in Least Cost Feed Formulation for Lactating Cattle
12:00-12:15 3033	Ms. S. Sandhiya, Vellore Institute of Technology, India. Solving Bi-objective Assignment Problem under Neutrosophic Environment
12:15-12:30 1314	Dr. D. Anuradha, Vellore Institute of Technology, India. A New Approach for Solving Solid Transportation Problems
12:30-12:45 2123	Dr. Selva Rani B, Vellore Institute of Technology, India. Integrating Fuzzy Soft Expert Set with TOPSIS for Improved Decision Making
12:45-13:00	Dr. Nandhini S, Vellore Institute of Technology, India.

6667	A study on Quantum Computers.
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Day 1: 24/08/2022 15:30 – 16:15 (GST)

**Session Chair:** Dr Linda Smail, Zayed University

Time Manuscript ID	Presenting Author and Title
15:30-15:45 9644	Ms. S Priyanka, Vellore Institute of Technology, India. Simple linear fuzzy regression model using fractional calculus
15:45-16:00 5436	Ms. Priyadarshini S, Vellore Institute of Technology, India. Critical path in an intuitionistic triangular fuzzy number for Time Cost Trade Off in project network by the modified traditional method
16:00-16:15 7765	Ms. P. Sri Devi, Periyar University, India. A Statistical Analysis of Confounding Factorial Experiments Using Fuzzy Probabilistic Approach

Day 1: 24/08/2022 16:30 – 18:00 (GST)

**Session Chair:** Dr Asit Saha, Sikkim Manipal University, Sikkim

Time Manuscript ID	Presenting Author and Title
16:30-16:45 4140	Mrs. Bharathy shanmugam, Vellore Institute of Technology, India. Stochastic analysis of M/G/1 retrial queue with two phases of service with single working vacation, starting failure.
16:45-17:00 1016	Mr. Sundarapandiyar. S, Vellore Institute of Technology, India. Non-Markovian Retrial G-Queue with Working Vacations and Bernoulli Schedule and Server Breakdown.
17:00-17:15 850	Mr. Thandra Jithendra, Vellore Institute of Technology, India. A novel COVID-19 infection-forecasting model based on artificial neural networks with backpropagation and gradient descent algorithm
17:15-17:30 1572	Dr. Tesymol Cyriac, Muthoot Institute of Technology and Science, India. A study on the characteristics of a rough sine slider bearing
17:30-17:45 1828	Dr. USHA V, Bharathiar University, India. A couple of results on non-local Type Differential Equations with deviation of arguments and Non-Instantaneous Impulses

17:45-18:00 4841	Dr. V. Usha, Dr.P. Kalamani, Dr.M. Anuradha, Bharathiar University, India. Existence and uniqueness results for Atangana-Baleanu fractional stochastic integro-differential equation with nonlocal condition
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### Day 2 - Link 6

Day 2: 25/08/2022 10:30 – 11:15 (GST)

**Session Chair 1:** Dr. D. Anuradha, Vellore Institute of Technology, Vellore.

**Session Chair 2:** Dr Vishal Patil, Jain University, India

Time Manuscript ID	Presenting Author and Title
10:30-10:45 7457	Ms. A. Kokila, Vellore Institute of Technology, India, Finding an Optimal Solution for Intuitionistic Fuzzy Transportation Problems by Using a New Approach with Some Software Packages
10:45-11:00 3380	Ms. Porchudar T, Sacred Heart College (Autonomous), India. An MCDM based on Neutrosophic Fuzzy SAW Method for New Entrepreneurs in Organic Farming.
11:00-11:15 2944	Dr. Ushangi Goginava, United Arab Emirates University, UAE. Summability in measure of two-dimensional Walsh-Fourier series

Day 2: 25/08/2022 11:30 – 13:00 (GST)

**Session Chair 1:** Dr. Muslum Arici, Kocaeli University

**Session Chair 2:** Dr. Keerthi Reddy N, Ulsan National Institute of Science and Technology

Time Manuscript ID	Presenting Author and Title
11:30-11:45 2584	Mr. Rajkumar D, Vellore Institute of Technology, India. MHD pulsating flow of Au-blood micropolar nanofluid in a channel.
11:45-12:00 8199	Mr. Sanjay Kumar, Malaviya National Institute of Technology, India. Insights into comparative study of water conveying nanoparticles flow over vertically moving rotating disk.
12:00-12:15 3500	Mrs. I Sakthi, Vellore Institute of Technology, India. A comparative analysis of entropy generation on MHD Hybrid Nanofluid flow over a permeable Converging/Diverging channel with thermal radiation.

12:15-12:30 8958	Mrs. M. A. Archana, Government Science College (Autonomous), India. Triple diffusive surface tension driven convection in a composite layer with temperature dependent heat sources.
12:30-12:45 2713	Mr. L. Nagaraju, Osmania University, India. Thermal radiation and Hall effects on Unsteady MHD Free Convective flow through porous medium between two vertical plates
12:45-13:00 4319	Mr. Anoop Suresh, CHRIST (Deemed to be University), India. Theoretical Analysis of Thermal Instabilities in Rayleigh-Benard Magneto-convection using a Cubic Ginzburg-Landau Model.

Day 2: 25/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr. S.Jagatheswari, Vellore Institute of Technology

**Session Chair 2:** Dr. P. Durgaprasad, Vellore Institute of Technology, Chennai Campus

Time Manuscript ID	Presenting Author and Title
15:30-15:45 4437	Mrs. Mythili R, SRM Institute of science and technology, India. Link Prediction of biomedical data using Graph Neural Networks,
15:45-16:00 8383	Mr. Praveen Immanuel Paulraj J, Karunya Institute of Technology and Sciences, India. Social Recommendation System using Graph Neural Networks.
16:00-16:15 2625	Mrs. Shalini.V, VIT chennai, India. Total and inverse domination numbers for certain necklace graphs.

Day 2: 25/08/2022 16:30 – 18:00 (GST)

**Session Chair 1:** Reenu Rani, VIT Vellore, India

**Session Chair 2:** Dr. M.Chandramouleeswaran, Saiva Bhanu Kshatriya College, Aruppukottai

Time Manuscript ID	Presenting Author and Title
16:30-16:45 1176	Ms. LAKSHMI M, Vellore Institute of Technology, India. Detection of Covid-19 using Deep Neural Network.
16:45-17:00 8011	Mr. Balakrishnama Manohar, Vellore Institute of Technology, India. Training of artificial neural network using learning algorithms and evolutionary algorithms for Prediction of surface roughness in electrical discharge machining: a comparative study.
17:00-17:15 3438	Mrs. Sabitha Jose, CHRIST (Deemed to be University), India. Further Results on Equitable Near Proper Coloring of Derived Graph Families.
17:15-17:30	Ms. S. Kither iammal, MS-University, India.

682	Monophonic pebbling number of dutch windmill graph.
17:30-17:45 6162	Ms. Syeda Afiya, Vellore Institute of Technology, India. Embedding $(K_9-C_9)$ into 2-Caterpillar and Triangular snake graph.
17:45-18:00 2909	Mr. B. I. Andrew, SRM Institute of Science and Tecnology, India. On Graph Energy and Spectral Radius of Bistar graph and Halin Bistar graph.

### Day 3 - Link 6

Day 3: 26/08/2022 10:30 – 11:15 (GST)

**Session Chair:** NORHALIZA BINTI ABU BAKAR, UNIVERSITI TUN HUSSEIN ONN MALAYSIA

Time Manuscript ID	Presenting Author and Title
10:30-10:45 0331	Ms. M. Padma Devi, VIT-AP University, India. Heat transfer effects on the oscillatory MHD flow in a Porous Channel with two immiscible fluids.
10:45-11:00 7818	Dr. K Venkatadri, Indian Institute of Information Technology India. Performance of magnetic dipole contribution on ferromagnetic heat and mass transfer flow with the influence of non-linear radiative heat flux, chemical reaction and quadric thermal radiation.
11:00-11:15 1328	Ms. Shamma Abdulla Yahlan Almazrouei, United Arab Emirates University, Al Ain, UAE. Soret and Dufour effects on radiative MHD thermosolutal viscoplastic nanofluid mixed flows past a bidirectional stretching sheet.

Day 3: 26/08/2022 11:30 – 13:00 (GST)

**Session Chair:** T. Sree Rama Murthy, Shri Vishnu Engineering college for Women

**Keywords:** queueing models, game theory, transportation, sequencing, LPP

Time Manuscript ID	Presenting Author and Title
11:30-11:45 7374	Ms. K Baby Saroja, SRM Institute of Science and Technology, India. Analysis of Single Server Markovian Queue with Phase Type Service, Breakdown and Standby Service.
11:45-12:00 0830	Mr. Karthick V, SRM Institute of Science and Technology, India. An Analysis of Three Servers Markovian Multiple Vacation Queueing System with Server Breakdown

12:00-12:15 8134	Mr. Vemula Sadanandam, Vellore Institute of Technology, India. Investigating the effect of Covid-19 pandemic on human health using Survival Analysis with Cox Proportional Hazard Model and Kaplan-Miere Curves.
12:15-12:30 2146	Ms. R Madhumidha, Vellore Institute of Technology, India. Analysis of M/G/1 Retrial Queueing System with Starting Failure and Feedback under Working Vacations,
12:30-12:45 4605	Ms. Bharathi J, Vellore Institute of Technology, India. An MX G 1 retrial queue with G queue and impatient customers.
12:45-13:00 6997	Ms. Divya K, Vellore Institute of Technology, Vellore, India, Heterogeneous Queueing Model with Intermittently Obtainable Server with Feedback

Day 3: 26/08/2022 15:30 – 16:15 (GST)

**Session Chair 1:** Dr.Ashok Misra, Centurion University of Technolgy and Management, Odisha, India **Session Chair 2:** Dr. K. Palanivel, Vellore Institute of Technology, Vellore.

Time Manuscript ID	Presenting Author and Title
15:30-15:45 1697	Mrs. Harshitha Urs, Reva University, India. Windmill Global Sourcing in an Initiative Using a Spherical Fuzzy Multiple Criteria Decision Prototype
15:45-16:00 7188	Dr. A.Thangam, Pondicherry university, India. Risk neutral and risk averse optimal decision policy for a fuzzy inventory system under bilevel trade credit financing and imprecise transport
16:00-16:15 3246	Dr. M. Kavitha, Bharath Institute of Higher Education and Research, India. Controllable Fuzzy Neutrosophic Soft Matrices.

Day 3: 26/08/2022 16:30 – 18:00 (GST)

**Session Chair:**

**Keywords:**

Time Manuscript ID	Presenting Author and Title
16:30-16:45	
16:45-17:00	
17:00-17:15	