

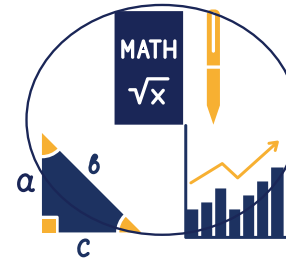


**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

**Faculty of Health, Natural
Resources and Applied Sciences**

Department of Mathematics,
Statistics and Actuarial Science

1st International Conference on Mathematical and Statistical Sciences(ICMSS-1)



Theme: Towards Multi-disciplinary Problem-Solving Research Advancements

 03 - 04 July 2023

 6th Floor, High-Tech Transfer Plaza Select (HTTPS), NUST Lower Campus, Windhoek, Namibia

Programme

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1st International Conference on Mathematical and Statistical Sciences(ICMSS-1)

Monday, 03 July 2023

07:30	Registration
09:00-10:00	CONFERENCE OPENING CEREMONY Venue: HTTPS Plaza, NUST Lower Campus
	Director of Ceremony: Prof. Rakesh Kumar
09:00-09:10	Welcoming Remarks by Dr Eroid Naomab, Vice Chancellor, Namibia University of Science and Technology (NUST)
09:10-09:20	Guest Speaker: Ms Natalie Russmann, Konrad Adenauer Stiftung (KAS) Resident Representative
09:20-09:40	Keynote Speaker: Dr Reinhold Kamati, Technical Expert at the Bank of Namibia
09:40-09:50	Vote of Thanks by Dr Onesmus Shuungula, Executive Dean (FHNRS)
09:50-10:15	Tea Break
10:15-10:55	Plenary Speaker: Professor Oluwole D. Makinde, Stellenbosch University, South Africa Topic: Mechanism of Fuel Flow in Automobile's Exhaust Catalytic Converter: A Mathematical Model Chair: Professor Tadeusz Czachorski (Polish Academy of Sciences, Poland)
10:55-11:35	Plenary Speaker: Professor (Dr.) Dhara Singh HOODA, GJ University of Science & Technology, India Topic: Information Theoretic Techniques for Dependence Analysis and Missing Data Estimation Chair: Professor V. Thangaraj (Vel Tech Dr RR & Dr RS Technical University, India)
11:35-11:40	Break
	Parallel Session 1

11:45-13:20	1A: Applied Mathematics and Related Fields Venue: HTTPS Plaza, NUST & Online Chairperson: Prof AS Eegunjobi (NUST) Co-Chairs: Prof H Garg (Thapar Univ, India) and Dr. S M Nuugulu (UNAM)	1B: Applied Statistics Venue: HTTPS Plaza, NUST & Online Chairperson: Prof Indra Rani (KUK, India) Co-Chairs: Dr D Ntirampeba (NUST) and Dr O Oyedele (UNAM)	1C: Multidisciplinary Research Venue: HTTPS Plaza, NUST & Online Chairperson: Prof Kalyan Das (NIFTEM, India) Co-Chairs: Prof Justice Emuoyibofarhe (Nigeria) and Dr Jacob Ong'ala (NUST)	1D: Queuing Theory and Applications Physical Venue: HTTPS Plaza, NUST & Online Chairperson: K Vytovtov (ASTU, Russia) Co-Chairs: Dr V Kumar (NIFTEM, India) and Dr SN Neossi-Nguetche (NUST)
11:45-12:05	Numerical simulation of a phenomenon of silting up of river banks Cyr-Séraphin Ngamouyih Moussata and Benjamin Mampassi, Marien Ngouabi University, Congo	Estimation Using Graph Sampling: a New Approach Prof (Dr) Diwakar Shukla, Dr. H.S. Gour Vishwavidyalaya, Sagar, India	Applications of Binary Petri nets and Binary Reachability Trees Dr. Gajendra Pratap Singh, Jawaharlal Nehru University, New Delhi, India	Stochastic Queues with Reverse Balking and Reverse Reneging Bhupender Kumar Som, GNIOT Institute of Management Studies, Greater Noida, India
12:05-12:20	Topological indices of zero-divisor graph of Zn Pradeep Singh, Maharishi Markandeshwar (Deemed to be University), India	The Determinants of Housing prices in Namibia Elisia Dula, University of Namibia, Namibia	Learners' Perceptions of the Challenges and Improvement Strategies in Distance and Online Undergraduate Mathematics Learning in Nigeria Comfort Reju, University of Lagos, Nigeria, Loyiso Jita, University of Free State, South Africa	Transient analysis of M/M/1/N queue with encouraged arrivals Bhupender Kumar Som, GNIOT Institute of Management Studies, India, Sunny Seth and Himanshu Goel, Jagan Institute of Management Studies, India
12:20-12:35	Variational Optimisation Method and Applications to Meteorological Modelling Gabriel Mbokoma, Sunday A. Reju, Nnnesi A. Kgabi and Benson Obabueki, Namibia University of Science and Technology, Namibia	A General Framework for Generating Three-component Heavy-tailed Distributions Patrick Osatohanmwun, Pan-Atlantic University, Nigeria	Grey wolf optimization and its improved version: Application for Reliability Optimization Doorgeshwaree Devi Heeramun, Deepika Garg and Alina Banerjee, GD Goenka University, India	Flexible group service, Bernoulli Feedback and Bernoulli Vacation Ayyappan G and Kalaierasi S, Puducherry Technological University, India



12:35-12:50	Digital technologies, Fourth Industrial Revolution and mathematics education nexus in emerging economies: A systematic analysis Ruth Eegunjobi, Shihaleni Ndjaba and Rosalia Mwalundilange, IUM, Namibia	An M/M/2 Queueing System with Differentiated Vacations Subject to Servers Breakdown V Karthick and V Suvitha, SRM Institute of Science and Technology, India	Optimal Policies for Replenishment, Pricing, Promotional efforts, and Preservation Investments for Deteriorating Items with Price- dependent Stochastic Demand Mamta Keswani, Dr Harisingh Gaur Central University, India	Numerical investigation on MAP/PH/1 Inventory Retrieval Queueing System With Constant Retrieval Rate, Single Vacation, Breakdown and Repair G Ayyappan and S Meena, Puducherry Technological University, India
12:50-13:05	Comparison of the WENO and RBF Methods for the Numerical Solution of the 2D Burgers Equation S.N Neossi- Nguetchue, Namibia University of Science and Technology, Namibia	M/M/c Heterogeneous Arrivals Queue with Two Kinds of Working Vacations and Impatient Customers. Yohapriyadharsini R S and Suvitha V, SRM Institute of Science and Technology, India	Pseudo Code and C++ Implementation of the Power Dominator Star Coloring Algorithms for Path and Cycles S Mathangi and Sharmila Mary Arul, Saveetha School of Engineering, India	M/M/1/N Queueing Model with Reverse Balking, Catastrophe and Restoration Letta Nm Thomas, Rakesh Kumar, Adetayo Eegunjobi and David liyambo, Namibia University of Science and Technology, Namibia
13:05-13:20	Magnetohydrodynamic Nanofluid Flow over Convectively Heated Plate on Radially Stretching Sheet Embedded on Porous Media Kulow Alai, Kenyatta University Nairobi, Kenya, Maurine Wafula, United State Internatinal University (USIU), Nairobi, Kenya and Lawrence Njau, Department of Mathematics and Actuarial Science, Kenyatta University Nairobi, Kenya	Algorithmic construction of Bayesian optimal block designs using the linear mixed effects model Dibaba Bayisa Gemechu, Namibia University of Science and Technology, Namibia, Legesse Kassa Debusho, University of South Africa, South Africa, Linda M. Haines, University of Cape Town, South Africa	Factors Influencing Adoption of UPI Payments by Indian Tourists: Extended UTAUT Model with Relative Advantage, Compatibility, Promotional Benefits, and Trust Sweta Yadav and Gurjeet Kaur, University of Delhi, India	M/M/1 queue with soft failures and N- Policy Janani B, Rajalakshmi Institute of Technology, India
13:20-14:10	LUNCH			
14:10-14:50	Plenary Speaker: Professor Delfim FM Torres, Universite d' Aveiro, Portugal Topic – Mathematical Modeling of COVID-19 and Optimal Control Industry Chair: Professor Samuel John (Namibia University of Science and Technology)			
14:50-15:30	Plenary Speaker: Professor Yuliya Gaidamaka, RUDN University, Russia Topic: Resource Loss Systems and Performance Analysis of Wireless Networks Chair: Professor Oluwatosin T. Mewomo (University of Kwazulu Natal, South Africa)			
15:30 -15:50	Tea Break			
Parallel Session 2				
15:55-17:30	2A: Applied Mathematics and Related Fields Venue: HTTPS Plaza, NUST & Online Chairperson: Prof G C Rana (India) Co-Chairs: Prof A Singh Yadav (India) and Dr. Ram Singh (BGSBSU, India)	2B: Applied Statistics Venue: HTTPS Plaza, NUST & Online Chairperson: Prof SS Mishra (RMLAU Co- Chairs: Dr. UK Khedlekar (DHSGSU, India) and Dr. Blessings (IUM, Namibia)	2C: Multidisciplinary Research Venue: HTTPS Plaza, NUST & Online Chairperson: Prof Fungai Bhunu Shava (NUST, Namibia) Co-Chair: Prof Sandile Motsa (Eswatini)	2D: Queueing Theory, and Related Fields Venue: HTTPS Plaza, NUST & Online Chairperson: Prof G Ayyappan (PTUNIV, India) Co-Chairs: Dr. K Kumar (CUJ, India)
15:55-16:15	A Generalization of Truncated S-Fractional Derivative and Applications to Fractional Differential Equations Sushil Dhaneliya, ITM Goi Gwalior M.P., India, Dr. Manoj Sharma, RJIT BSF Tekanpur Gwalior (M.P), India	Application of Dummy Variable Regression Model in Business and Economics Prof. Manoj Kumar Mishra, Salale University, Ethiopia	Need of Cryptography: Introduction & Research Aspects Dr Varun Shukla, PSIT, Kanpur, Uttar Pradesh, India	Type I Heavy-Tailed Family of Generalized Burr III Distribution with Applications Wilbert Nkomo, Broderick Olusegun Oluyede and Fastel Chipepa, Botswana International University of Sc and Technology, Botswana
16:15-16:30	Penalised Portfolio Optimisation Models with Augmented Lagrangian Kornelia David, Sunday A. Reju and S N. Neossi, Namibia University of Science and Technology, Namibia	Dynamics of a virally infected phytoplankton and zooplankton system with delay, Rakesh Kumar, Amanpreet Kaur, Shaheed bhagat Singh State University, Ferozepur, India, and Ajender Kumar Malik, UP Rajarshi Tandon Open University, India	Deep learning classification algorithm for small laboratory animals' trajectories in Morris Water Maze Patatchona Keyela, RUDN University, Russia, Oksana Streltsova, Tatevik Bezhanyan and Yuri Severyukhin, Joint Institute for Nuclear Research (MLIT JINR), Russia	Transient Analysis of a Machine Repair Model with Hot Standbys and Retention of Reneged Machines C K Anjali and Sreekanth Kolledath, Amrita School of Physical Sciences, India



16:30-16:45	Upper bounds for the complex growth rates in the Darcy-Brinkman convection in a binary viscoelastic fluid saturated porous layer Renu Bala, Madhu Aneja and Tania Bose, Chitkara University Institute of Engineering and Technology, India	Stochastic Inventory Model for Imperfect production with FRW Scheme Under Uncertainties Lalji Kumar, Harisingh Gour Cenral University Sagar, India	The Digital Transformation of the Dairy Industry with Artificial Intelligence: A Systematic and Bibliometric Analysis Mohit Malik, Vijay Kumar Gahlawat, National Institute of Food Technology Entrepreneurship and Management, India, Rahul Mor, University of Northampton, United Kingdom, Vijay Dahiyar, Maharaja Surajmal Institute, India	Analysis of a Single Server Queueing Model with Working Vacation, Customer Impatience and Bernoulli Interruption K.V Vijayashree and K. Ambika, Madras Institute of Technology, India
16:45-17:00	Neural Networks Applications to Ecological Modelling Nikodemus Amon, Sunday A. Reju and Benson Obabueki, Namibia University of Science and Technology, Namibia	A comparison of the discrimination and calibration performance of the Logit-power and Pareto Families of Links in discrete survival models Susan Maposa, Midlands State University, Zimbabwe, Alphonse Bere, Caston Sigauke, University of Venda, South Africa, and Charles Chimedza, Wits University, South Africa	Optimal Analysis of a Sustainable Inventory Model for a Controllable Carbon Emission with Two Warehouse System and Hybrid Cash-Advance Payment Ankur Saurav, Vijender Yadav and Chandra Shekhar, BITS PILANI, India	Cost & Profit Analysis of Two- Dimensional state M/M/2 Queueing Model with Correlated Servers, Multiple Vacations, Balking and Catastrophes Sharvan Kumar and Dr. Indra, Kurukshetra University, India
17:00-17:15	Fractional Calculus Approach in RLC Circuit Using Miller and Ross Function Kiran Sharma, Shri Venkateshwara University, India, Manoj Sharma, Rustamji Institute of Technology, India	Artificial Intelligence Integrated Queuing Model for the Dairy Industry: A Conceptual Approach Vijay Kumar Gahlawat, Mohit Malik, NIFTEM, India, Rahul Mor, University of Northampton, United Kingdom, Vijay Dahiy, Maharaja Surajmal Institute, India	Impact of Mathematical Modelling for Control Strategies of Listeriosis Diseases in RTE Food Kapil Toor and Kalyan Das, National Institute of Food Technology Entrepreneurship and Management, India	Approximating Fixed Points of Nonexpansive Type Mappings via General Picard–Mann Algorithm Rahul Shukla and Rekha Panicker, Walter Sisulu University, South Africa
17:15-17:30	Dynamical analysis of a phytoplankton- zooplankton model with time delay Dr. Rakesh Kumar, Shaheed Bhagat Singh State University, India, and Navneet Rana, Guru Nanak College, India	Markov Chain Analysis for Rainfall Pattern Distribution : A Case Study Ritu Gupta, Gurpreet Kaur, Amity University, India, Shashi Kant Mishra, Ministry of Earth Sciences, India	Modelling of Flood Hazards in Zambezi Kwando Linyanti Basin, Namibia; a 1D Flood Hazard Model Dianah Ireng, Sunday Reju, Namibia University of Science and Technology, Namibia, Nnnesi Kgabi, North West University, South Africa	Genetic Algorithm for Redundant Multi-server Machine Repair System under Generalized Triadic Policy Parmeet Kaur Chahal and Kamlesh Kumar, Central University of Jammu, India



Tuesday, 04 July 2023

07:30 - 09:00	Registration			
09:00-09:40	Plenary Speaker: Professor Dr Andreas Meister, University of Kassel, Germany Topic – Unconditionally Positive and Conservative Time Integration Schemes Chair: Professor Vijay Kumar Sehgal (Bundelkhand University, India)			
09:40-10:20	Plenary Speaker: Associate Professor (Dr) Manoj Sharma, Rustamji Institute of Technology (BSF), Tekanpur, India Topic – Fractional order Linear Kinetic Equation Chair: Professor Dharm Singh Jat (Namibia University of Science and Technology)			
10:20-10:40	Tea Break			
Parallel Session 3				
10:45-12:35	3A: Applied Mathematics and Related Fields Venue: HTTPS Plaza, NUST & Online Chairperson: Professor Sylvanus Onjefu (NUST) Co -Chair: Prof Mallikarjun Pillalamarry (NUST)	3B: Reliability Theory and its Applications Venue: HTTPS Plaza, NUST & Online Chairperson: Dr D liyambo (NUST) Co-Chair: Prof Kamlesh Shukla (India)	3C: Multidisciplinary Applications of Mathematics Venue: HTTPS Plaza, NUST & Online Chairperson: Dr Shihaleni Ndjaba (IUM) Co-Chair: Dr Azeta Ambrose (NUST)	3D: Mathematics and Related Fields (Group-2) Venue: HTTPS Plaza, NUST & Online Chairperson: Professor Joshua Abolarinwa (NUST) Co-Chair: Prof Guy-Alain Lusilan Zodi (NUST)
10:45-11:05	Applications of Multi Criteria Decision Making Techniques for the Medical Diagnosis of Vector-Borne Diseases Vijay Kumar, MRIIRS, India	Reliability Availability Maintainability analysis and optimization for Pharmaceutical Industries Deepika Garg, GD Goenka University, India	Electronic-Word-of-Mouth in Online Markets Anu Gupta Aggarwal, University of Delhi, India	Customer Discouragement in Unreliable Single Server Double Orbit Retrial Queue Khushbu Antala, Sudeep Singh Sanga, NIT-SURAT, India, and Khushbu Antala, SVNIT SURAT, India
11:05-11:20	Intuitionistic Fuzzy k-Ideals of Intra Regular Gamma semirings Tilak Sharma, HPU Regional Centre Dharamshala(HP), India, Rajesh Kumar, Government College Dharamshala(HP), India	Integrating Testing Coverage, Effort and Change Point in a Software Reliability Growth Model: A Comprehensive Analysis Sudeep Kumar, Amity University Uttar Pradesh, India, Anu G Aggarwal, University of Delhi, India and Ritu Gupta, Amity University Uttar Pradesh, India	Exploration of autonomous vehicles in smart city environment Shubham Prakash, Begishev Vyacheslav Olegovich and Shubham Prakash, Peoples' Friendship University of Russia (RUDN University), Russia	Single server bulk service priority queue with Differentiate Breakdown, Repair, Close down, Set up and Multiple vacation G Ayyappan and S Nithya, Puducherry Technological University, India
11:20-11:35	Wavelet Application to Geomagnetic Monitoring and Modelling of Power Networks Ilenikemanya Ndadi and Sunday A. Reju, Namibia University of Science and Technology, Namibia	Inventory Control System for Seasonal Products for Small Retailers Priyanka Arora, SRM Institute of Science and Technology, India	Markov Models for Dimensioning and Provisioning of Battery Energy Storage Systems (BESS) for Off-Grid Green Mobile Network Base Station Sites Godlove Suila Kuaban, Tadeusz Czachórski, Institute of Theoretical and Applied Informatics, Poland, and Piotr Czekalski, Silesian University of Technology, Poland	Service control for an M/M/1 queueing system with a single unreliable server Nidhi Nidhi, NIT SURAT, India
11:35-11:50	Opposition-Based Learning and Biogeography Based Optimization: Application for Reliability Optimization Nakul Vashishth, Doorgeshwaree Devi Heeramun and Deepika Garg, GD Goenka University, India	Cost-Benefit Analysis of a Three Non- Identical Unit Standby System with Weibull Failure and Repair Laws Laxmi Raghuvanshi, Rakesh Gupta and Pradeep Chaudhary, C.C.S. University Meerut, India	Mathematical Analysis of Foot and Mouth Disease with Optimal Control: A Case study of FMD in Namibia Palivamwe Merolly Ndevelo, Adetayo Samuel Eegunjobi and Nega Chere, Namibia University of Science and Technology, Namibia	Holistic Approaches in Queueing Analysis: Incorporating a Multi-Feature Queue with Failover Server, Multiple Vacations, Timely Feedback, Flexible Offering, Disruptions, and Restoration Ayyappan G, Puducherry Technological University, India, Sankeetha S, Saradha Gangadharan College, India

11:50-12:05	Optimizing Costs for the Multi-unit Machine Repair Problem with Primary and Secondary Repairer in the M/M/R+1 Configuration Mahendra Devanda, Suman Kaswan and Chandra Shekhar, Birla Institute of Technology and Science, India	A Bayesian Study of a Two Non- Identical Unit Cold Standby System with Preparation for Repair and Correlated Failure and Repair Times Vashali Saxena, Rakesh Gupta and Bhupendra Singh, C.C.S. University Meerut, India	The Holiday Effect on Stock Return: an Empirical Evidence from the Tourism and Hospitality Industry of India Gaurav Kumar, Prof. Bhartendu Singh and Jagadish Behera, Mizoram University, India	V-modules, SSI-modules and Idempotent of hereditary pretorsion classes in $\sigma[M]$ Nega Chere, Namibia University of Science and Technology, Namibia
12:05-12:20	Transient Solution of a Multi- Heterogeneous Servers' Queuing System with Impatience and Catastrophes Sapana Sharma, Maharishi Markandeshwar Deemed to be University, India, Prof Rakesh Kumar, Namibia University of Science and Technology, Namibia	Latent Growth Mixed Model Of The Progression Of Hiv Using Cd4 Counts: A Case Study Of Namibia Samuel Ndungula And Victor Katoma, Namibia University of Science and Technology, Namibia	Gesturing as a problem solving strategy in mathematics: The case of nonverbal reasoning Beata Dongwi, St Paul's College, Namibia	Gaussian and Weak Gaussian Gamma Semirings Tilak Sharma, HPU Regional Centre Dharamshala (HP), India, Anuj Sharma, Government College Shillai, India
12:20-12:35	Turning $N\delta$-sets into Discrete Dynamical Systems Alfred H Kamuningene, Triumphant College, Windhoek, Namibia Zechariah Mushaandja, Botswana International University of Science and Technology, Botswana	A Partially Backlogged Two- Warehouse Inventory Model for Deteriorating Items With Selling Price and Time Sensitive Demand and Carbon Emission Under Green Technology Investment Krishan Kumar Yadav, Ajay Singh Yadav and Shikha Bansal, SRM Institute of Science and Technology, India		Dominator Sum Coloring Algorithm for Linear Graphs: Pseudo Code and C++ Implementation V Indhumathi and Sharmila Mary Arul, Saveetha School of Engineering, India
12::35-14:00	LUNCH			
Parallel Session 4				
14:00-15:35	4A: Queueing Theory & Related Fields Venue: HTTPS Plaza, NUST & Online Chairperson: Prof Dmitry Kozyrev (Russia) Co-Chair: Dr Dibaba Gemechu (NUST)	4B: Inventory Management and Applications Venue: HTTPS Plaza, NUST & Online Chairperson: Prof CK Jaggi (India) Co-Chair: Prof Michael Mutingi (NUST)	4C: Multidisciplinary applications of Mathematics Venue: HTTPS Plaza, NUST & Online Chairperson: Prof Justice Emuoyibofarhe (Nigeria) Co-Chair: Dr Joseph Akande (NUST)	4D: Mathematics and Related Fields (Group-2) Venue: HTTPS Plaza, NUST & Online Chairperson: Professor Dipti Ranjan Sahu (NUST) Co-Chair: Prof David Uchezuba (NUST)
14:00-14:20	Sustainable EOQ Model for Weibull Deteriorating Items with Back-Ordering and Constant Demand Chandra Shekhar, BITS Pilani, India	Inventory Model with Non- instantaneous Deteriorating Items A. K. Malik, UP Rajarshi Tandon Open University, Prayagraj (UP), India	Profiling jobseekers in Senegal Jean Pierre Adiouma Ndiaye, National Agency of Statistics, Senegal	Analysis of phase type queueing system with startup times and single vacation Ayyappan Govindan, Puducherry Technological University, India, Thilagavathy Karthikeyan, Hindustan Institute of Technology and Science (Deemed to be University), India
14:20-14:35	Stochastic Modelling of a Multi-Layer HAP- LEO System for Energy Saving and Energy Harvesting through Semi-Markov Process Raina Raj, Indian Institute of Technology Delhi, India	Model of Partial Backlog Inventory for Deteriorating Goods in Two Warehouses with Quadratic Demand Under Inflationary Conditions Krishan Pal, Ajay Singh Yadav and Seema Agarwal, SRMIST NCR Campus Modinagar Ghaziabad, India	Bridging the Gap: Mathematical Modelling and Climate Change in Marine Ecosystems - A Systematic Examination Ashish Mor and Kalyan Das, NIFTEM, India	Analysis of MAP1, MAP2/P H1, P H2/2 with Working vacation, Re-service, Interrupted closedown, Unreliable server, Feedback and Impatient customers Ayyappan Govindan, Puducherry Technological University, India, G. Archana Alias Gurulakshmi, Puducherry Technological University, India



14:35-14:50	Steady-State Analysis of an M/M/1 Queue with Differentiated Vacations, Reverse Balking and Retention of Renege Customers Miyawathura Ihala Gamage Suranga Sampath, Wayamba University of Sri Lanka, Sri Lanka	Stock Chain Management for Inventory Models Deep Kamal Sharma and Om Pal Singh, SRMIST Delhi NCR Campus, India	Small area estimation of consumption expenditure in Khomas region, Namibia using the Fay-Herriot EBLUP estimator Selma Shifotoka, Dibaba Gemechu, Dismas Ntirampeba and Rakesh Kumar, Namibia University of Science and Technology, Namibia	An investigation on M/PH/1 queueing model with single working vacation, breakdown, repair and standby Server K Baby Saroja and V Suvitha, SRM Institute of Science and Technology, India
14:50-15:05	Maximum Likelihood and Bayesian Estimation on M/M/1 Queueing Model with Balking Himanshi Sharma and Gulab Singh Bura, Banasthali Vidyapith, India	Two-Warehouse Inventory Models for Decaying Items with Inflation and Partial Backlogging Vishakha Chaudhary, SRM Institute of Science and Technology, India	Spares Parts Optimization of a Phased Mission Systems Preeti Wanti Srivastava and Satya Rani, University of Delhi, India	Optimizing inventory in business environments: Combining matrix analytical techniques with a cancellation policy, working vacation and working breakdown G Ayyappan and N Arulmozhi, Puducherry Technological University, India
15:05-15:20	Analysis of $M[X_1], M[X_2]/G_1, G_2/1$ Retrial Queueing System with Priority Services, Breakdown Delayed Repair and Bernoulli Vacation Dr.G Ayyappan and Thamizhselvi P, India	Economic Analysis of a Retrial Queueing System with Balking, Orbit Search, Multiple Vacation, and Unreliable Server Suman Kaswan, Mahendra Devanda and Chandra Shekhar, Birla Institute of Technology and Science Pilani, India	The correlation between depression and attitudes towards suicide amongst students of the University of Namibia Main Campus Windhoek Hilma Dhiginina Vulikeni Kasheeta and Poonam Dhaka, University of Namibia, Namibia	Incorporating Dynamic Market Potential in Product Diffusion Model under Uncertain Marketing Environment Shiva, Neetu Gupta, J. C. Bose University of Science and Technology, India, Anu G. Aggarwal, University of Delhi, India
15:20-15:35	Economical Order Inventory Policies for Perishable Items with Permissible Delay in Payment under Credit Policy and Effect of Advertisement, Time, and Price-Discount Vijender Yadav, Ankur Saurav and Chandra Shekhar, Birla Institute of Technology and Science Pilani, India		Understanding the impact of review and reviewer characteristics on reviewer popularity Sanchita Aggarwal and Abhishek Tandon, University of Delhi, India	On the Power Dominator Equitable Coloring of Wheel Graphs Sharmila Mary Arul, Saveetha School of Engineering, India
15:40-16:10	CLOSING SESSION			



NAMIBIA UNIVERSITY
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Resources and Applied Sciences
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