National Conference on Advances in Applied Mathematics and Statistics (NCAAMS 2017) <u>CONFERENCE REPORT</u>

The "National Conference on Advances in Applied Mathematics and Statistics" (NCAAMS-2017) was organized by the Department of Mathematics, Mata Sundri College For Women (University of Delhi) on 7-8 September, 2017. The conference was sponsored by Department of Science and Technology(DST-SERB) and Defence Research and Development Organization (DRDO), The inauguration ceremony was held on 7th September at Mata Sahib Kaur Auditorium in the college premises. The principal Dr. Kawarjit Kaur welcomed the chief guest and other distinguished guests. The chief guest Dr.(Mrs) Pankaj Mittal, Additional Secretary-I, University Grants Commission appreciated the efforts and talked about the significance of team work for the success of every event. Dr. Preeti Ahuja and S.Prithipal Singh Sawhney, honorable Members, Governing Body and the guests of honour Prof. Sudhir R. Ghorpade, IIT, Mumbai and Prof. B.K. Dass, University of Delhi graced the function with their presence. The objective of organizing the conference was to enhance the knowledge of every participant while providing a vibrant and dynamic platform to renowned researchers and academicians to present research papers followed by discussions to enable dissemination of recent advances in various fields of mathematics. The conference addressed prevalent key questions on the subject of applied mathematics and statistics and attempted to bridge the gap between academia and industry. The two day event was attended by over 125 research scholars and delegates from renowned institutions of India including Central/ State universities such as University of Delhi, Jamia Millia Islamia University, South Asian University, Amity University (Noida), University of Allahabad, IIT's, NIT's and several others. There was international participation as well with two speakers from Italy and one from U.A.E. The keynote address was delivered by Prof. Ayman Badawi, American University of Sharjah, U.A.E and the plenary talk by Prof. Stefano Innamorati, University of L'Aquila, Italy. Prof. Madhu Raka, Punjab University, Prof. C.S.Lalitha, University of Delhi, Dr. Indivar Gupta, DRDO, Prof. Fulvio Zuanni, University of L'Aquila, Italy and many other speakers discussed many facets of applied mathematics and statistics with emphasis on both theory and applications to the real world problems. Session wise details are provided below.

	Day 1: September 7, 2017
9.00 am	Registration
10.00-11.00 am	Inauguration
	Venue: Mata Sahib Kaur Auditorium
11.00-11.30 am	High Tea
	Session I
	Venue: Mata Sahib Kaur Auditorium
	Keynote Address
	Chair: Prof. Sudhir Ghorpade
	Graphs associated to commutative rings
	Ayman Badawi, American University of Sharjah, UAE
11.30 am -1:00 pm	Plenary Talk
L	Chair: Prof. Ayman Badawi
	On two-intersection sets in the three dimensional projective space
	on a finite field of order q
	Stefano Innamorati, University of L'Aquila, Italy
1.00-2.00 pm	Lunch
tion find	Session II: Invited Talks
	Venue: Mata Gujri Hall
	Chair: Prof. Stefano Innamorati
	Some nonlinear time-series models and their applications
	Prajneshu, IASRI, Delhi
	Inversion Techniques in Solving Industrial Problems
2.00-3.30 pm	S.S. Raghuvanshi, AMD Hyderabad
	Many facets of affine Grassmann codes
	Sudhir R. Ghorpade, IIT, Mumbai
3.30-3.45 pm	Tea Break
	Session III: Paper Presentations
3.45-4.45 pm	Parallel Sessions
	Day 2: September 8, 2017
	Session I: Invited talks
	Venue: Mata Gujri Hall
	Chair: Prof. Ayman Badawi
	Convergence of Solution Sets in Vector Optimization
	C.S. Lalitha, University of Delhi (South Campus)

Programme Day 1: September 7, 2017

	On sate of two $(m + a) = DC(2 - a)$
	On sets of type $(m,m+q)_2$ in PG(3, q) Fulvio Zuanni, University of L'Aquila, Aquila, Italy
10.00-11.30 am	Computational Hard Problems and their Application in Cryptography
	Indivar Gupta,DRDO, Delhi
11.30-11.45 am	Теа
	Session II: Invited Talks
	Venue: Mata Gujri Hall
	Chair: Prof. Sudhir Ghorpade
11.45 am-1.15 pm	Polynomial Matrices over Finite Fields with given Invariant Factor
	Samrith Ram, IIIT Delhi
	Some sum form of functional equations related to entropies
	Dhiraj Kumar Singh, Zakir Husain Delhi College, DU
	Some special cyclic codes over a finite non-chain ring and their Gray image
	Madhu Raka, Panjab University
1.15-2.00 pm	Lunch
	Session III: Paper Presentations
2.00-3.00 pm	Parallel Sessions
3.00 pm - 4.00 pm	Valedictory Function
	Venue: Mata Gujri Hall
4.00 pm	High Tea
	Paper Presentations
	eptember 7, 2017- Timing: 3.45-4.45 pm
Parallel Session I: Applied Mathematics	Venue: Room No. 326 Chair: Dr. S. S. Raghuvanshi, AMD Hyderab
1. Applications to Robe's Problem Dr. Bhavneet Kaur	
Assistant Professor, Lady Shri Ram Colleg	e for Women (University of Delhi)
2. Numerical Solution of Boundary Layer Pro	
Dr. Manoj Kumar	
Associate Professor, Motilal Nehru Nation	al Institute of Technology, Allahabad
	hen less massive primary is an heteroge-neous oblate body with N-layers
UT KUMATI MAIIMI	
Dr. Kumari Shalini Assistant Professor, Zakir Hussain Delhi C	ollege (University of Delhi)
Assistant Professor, Zakir Hussain Delhi C 4. A New High Accuracy Numerical Method I	ollege (University of Delhi) Based on Polynomial Cubic Spline Approx-imations for the System of 1D Quasi-
 Assistant Professor, Zakir Hussain Delhi C 4. A New High Accuracy Numerical Method I Linear Hyperbolic Equations 	ollege (University of Delhi) Based on Polynomial Cubic Spline Approx-imations for the System of 1D Quasi-
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	Reetu Goel
	Research Scholar, Department of Statistics, Ch. Charan Singh University, Meerut
2.	The Exponentiated Perks Distribution And its Application
	Neha Choudhary
3	Research Scholar, Department of Statistics, Ch. Charan Singh University, Meerut Cost-Benefit Analysis of a Three Unit Complex System with Load Sharing Units Working in Parallel
5.	Arti Tyagi
	Research Scholar, Department of Statistics, Ch. Charan Singh University, Meerut
4.	A Two Non-Identical Unit Parallel System with Correlated Failure and Repair Times of Repair-Machine Vaishali
	Research Scholar, Department of Statistics, Ch. Charan Singh University, Meerut
5.	A Discrete Parametric Markov-Chain Model of a Two Warm Standby System with Rest-Period of Repairman
	Parul Bhardwaj
Do	Research Scholar, Department of Statistics, C.C.S. University Campus, Meerutrallel Session IV: Applied AlgebraVenue: Mata Gujri HallChair: Prof. Ruch Das, Dept. of Mathematics, DU
	rallel Session IV: Applied AlgebraVenue: Mata Gujri HallChair: Prof. Ruch Das, Dept. of Mathematics, DUPerfect Codes in Poset Spaces and Poset Block Spaces
	Namita
	Research Scholar, Department of Mathematics, University of Delhi
	Predicting Attacker behavior in Cyber Physical System (CPS) based on Stochastic Game K.C. Lalropuia
	Research Scholar, University of Delhi
	Betti Numbers of Some Stanley-Reisner Rings Associated to Linear Codes
	Prasant Singh Research Scholar, Department of Mathematics, IIT Bombay
4.1	Research Scholar, Department of Mathematics, ITT Bonday Restricted three-body problem when one of the primaries is an Ellipsoid
	Dr. Mohd. Javed Idrisi
	Assistant Professor, Al-Falah University, Faridabad (Haryana) rallel Session V: Optimization/Analysis Venue: Room No. 327 Chair: Dr. Rama Verma, DU
	An optimal rejuvenation scheme for maximizing reliability of wireless sensor networks
	Dr. Vandana Gupta
2	Assistant Professor, Department of Operational Research, University of Delhi Potfolio Optimization with Option: A Case Study
۷.	Meena Baweja
_	Assistant Professor, Mata Sundri College for Women (University of Delhi)
3.	Economic Production Policy for an Inventory System under Reverse logistics and Inflation Dr. Himani Dem
	Assistant Professor, SRM University Delhi NCR Campus, Modinagar
4.	Reliability study of LTE-Vehicular technology (LTE-V)
	Shivani Gupta Research Scholar, University of Delhi
5.	Qualitative Uncertainty Principle for Gabor Transform on Certain Locally Compact Groups
	Jyoti Sharma
	Research Scholar, Department of Mathematics, University of Delhi
n	Day 2: September 8, 2017- Timing: 2.00-3.00 pm
	rallel Session I: Applied MathematicsVenue: Room No. 326Chair: Dr. Dhiraj Kumar Singh, DUA Fuzzy Decision Making Method with Information Measures
	Dr. Anjali Munde
ŀ	Assistant Professor, Amity University, Noida
	Elastodynamic Interactions of Laser Pulse in Microstretch Thermoelastic Mass Diffusion Medium with Dual Phase Lag Model Arvind Kumar
	Research Scholar, Punjab Technical University, Jalandhar
3. V	Vavelet Analysis for Ground Level Ozone
	Dimple Pruthi Research Scholar, Guru Gobind Singh Indraprastha University, Delhi
	Time Series Analysis of HIV
	Aashima Bangia
5	Research Scholar, Guru Gobind Singh Indraprastha University, Delhi Neural Networks Implementations for Classification and Prediction
Э.	Ishmita Loona
	Indira Gandhi Delhi Technical University, Delhi
	rallel Session II: Applied MathematicsVenue: Room No. 327Chair: Prof. Indivar Gupta, SAG ,DRDOInvestigation of Complexity and Chaos in Kraut Model
1.	Investigation of Complexity and Chaos in Kraat Model

Dr. Til Prasad Sarma Associate Professor, Department of Education in Science and Mathematics N C E R T, Delhi 2. Computational Thinking: An Algorithmic Approach to Solving Problems and Designing Systems Sangeeta Pathak Vocational Center, Mata Sundri College for Women (University of Delhi) 3. Mathematical Analysis of SH-type Waves in a Parabolic Heterogeneous Structure of Orthotropic and Isotropic Media Parvez Alam Research Scholar, IIT (Indian School of Mines), Dhanbad 4. Combination-Combination projective synchronization of chaotic dynamical systems Aysha Ibraheem Research Scholar, Department of Mathematics, University of Delhi Parallel Session III: Statistics I Venue: Room No. 211 Chair: Dr. Manish Kant Dubey, SAG, DRDO 1. Ratio Estimation of the Mean under RRT Models Dr. Geeta Kalucha Sr. Asst. Professor, P.G.D.A.V. College (University of Delhi) 2. A Two Non- Identical Unit Standby System with Waiting Time Distribution of Re-pairman and FCFS Repair Discipline Dr.Pradeep Chaudhary Assistant Professor, Ch. Charan Singh University, Meerut 3. A Two Non- Identical Unit Standby System with Preventive Maintenance and Two Phase Repair by Two Repairmen Anika Sharma Research Scholar, Department of Statistics, Ch. Charan Singh University, Meerut 4. A two identical unit cold standby system with fault detection under repair Shivali Sharma Research Scholar, Department of Statistics, Ch. Charan Singh University, Meerut 5. Reliability Estimation in Load-Sharing System Model with Applications to Real Data Puneet Kumar Gupta Research Scholar, Department of Statistics, University of Allahabad Parallel Session IV: Statistics II/Analysis Venue: Room No. 311 Chair: Prof. Fulvio Zuanni, University of L'Aquila 1. Bayes Prediction of Poisson Regression Superpopulation Mean with a Non-Gamma Prio Dr. Priyanka Aggrawal Assistant Professor, Hindu College (University of Delhi) 2. Multi-stage optional unrelated question RRT Model Dr. Samridhi Mehta Assistant Professor, Hindu College (University of Delhi) 3. Stochastic Outlook of Two Non-Identical Unit Parallel System With Priority in Repair Rohit Patawa Research Scholar, Department of Statistics, University of Allahabad, Allahabad 4. Fixed Point Theorems for Compatible Mappings of Type (A) in Metric Spaces Monika Research Scholar, Baba Mastnath University, Rohtak (Haryana) 5. Fixed Points For Compatible Maps, Weakly Compatible Maps, (E.A) Property and CLRg Property Indu Bala Research Scholar, Baba Mastnath University, Rohtak (Haryana) Parallel Session V: Applied Mathematics Venue: Mata Gujri Hall Chair: Dr Prof. Madhu Raka, Panjab University 1. Hankel Transform – An Interpretation tool in Earth Science Dr. Sunil K Garg Senior Scientist, Madhya Pradesh Science and Technology 2. Resonance in a Geo-centric Satellite due to Earth's Equatorial Ellipticity Dr. Sushil Yadav Assistant Professor, Maharaja Agrasen College (University of Delhi) 3. Existence of Periodic Orbits of the First Kind in the Restricted Problem of Three Bodies when the Smaller Primary Is Triaxial Rigid Body And The Bigger Primary An Oblate Spheroid Dr. Awadesh Kumar Podhar Assistant Professor, Maharaja Agrasen College (University of Delhi) 4. Restricted Three Body Problem with Stokes Drag Effect when one of the Primary is a Finite Straight Segment Satyendra Kumar Satya Research Scholar, Vinoba Bhave University, Hazaribagh

The conference concluded with the valedictory function held on 8th September where the speakers and the participants shared their personal experiences over the past two days. The participants found the discussions illuminating and interesting interaction took place throughout the session. This was followed by distribution of participation certificates and the vote of thanks. It was an enriching experience for all the participants who were motivated for research in various disciplines of mathematical sciences.