Applied Linear Algebra, Probability, and Statistics (ALAPS 2023)

A two-day symposium in honor of Prof. C R Rao September 24 – 25, 2023 Center for Advanced Research in Applied Mathematics and Statistics MAHE, Manipal, India

SCHEDULE

	SCHEDULE	
September 24, 2023 Student Activities		
09:00 - 09:45 10:00 - 10:30 10:00 - 11:00 11:00 - 12:30 10:30 - 13:00	Registration + High Tea Quiz Prelims Collage Preparation Oral Presentation* Contributory talks (5 online +3 offline)#	
13:00 - 14:00	Lunch Break	
14:00 - 15:00 15:00 - 15:30	Quiz Final Distribution of participation certificates + Tea	
*Oral Presentation		
11:00 - 11:10 11:10 - 11:20 11:20 - 11:30 11:30 - 11:40 11:40 - 11:50 11:50 - 12:00 12:00 - 12:10 12:10 - 12:20 **Contributory Talks	Nikshitha, <i>Dr. NSAM First Grade College Nitte</i> K Varsha, <i>Mangalore University, Konaje</i> K Shreevathsa, <i>PSPH, MAHE, Manipal</i> Cyril Biji, <i>PSPH, MAHE, Manipal</i> Fathimath Thoufira, <i>St. Aloysius College, Mangaluru</i> Chaithanya N Bhat, <i>Poornaprajna College, Udupi</i> Subrahmanya Shenoy, <i>Poornaprajna College, Udupi</i> Rakshitha R Adiga, <i>Poornaprajna College, Udupi</i>	
September 24, 202	23	
Chair – Sudhakara G	, Poorna Prajna College, Udupi	
10:30 - 10:50	David Raj Micheal, <i>VIT Chennai</i> Title: Note on the divisibility of k-nomial coefficients	

Savitha V, *PSPH*, *MAHE*, *Manipal*

Title: GCN decomposition in the context of Rings

10:50 - 11:10

11:10 - 11:30	Umashankara Kelathaya, <i>PSPH, MAHE, Manipal</i> Title: Computing <i>s</i> -g Inverse – A few Methods	
11:30 - 11:50	Debajit Kalita, <i>Tezpur University, Tezpur</i> Title: First eigenvectors of nonsingular weighted directed graphs	
Chair – Arathi Bhat, Manipal Institute of Technology, MAHE		
11:50 - 12:10	Mr. Shrinath Hadimani, <i>Indian Institute of Science Education and Research, Thiruvananthapuram</i> Title: Bounds on the eigenvalues of special type of matrix rational functions	
12:10 - 12:30	Pallavi B, Indian Institute of Science Education and Research, Thiruvananthapuram Title: The Hoffman-Wielandt (type) inequality for quaternion matrices and quaternion matrix polynomials	
12:30 - 12:50	Shubham Khansili, <i>The University of Sheffield, United Kingdom</i> Title: PDE-based deployment with communicating leaders for large-scale multi-agent systems	
12:50 - 13:10	Argha Ghosh, <i>Manipal Institute of Technology, MAHE, Manipal</i> Title: Ideal convergence of sequences of metric-valued random variables	

September 25, 2023 - Monday

09:30 - 11:15	Release of Edited Book-Volume and Special Issue of AKCE Int. J. Graph. Comb. in honor of Rao & Lal
09:30 - 09:35	Welcome Address: K. Manjunatha Prasad Lighting the Lamp Floral Tribute to CR Rao by the dignitaries
09:35 - 09:40 09:40 - 09:45 09:45 - 09:50 09:50 - 09:55 09:55 - 10:00 10:05 - 10:10 10:10 - 10:15	About CARAMS, MAHE: Savitha V About Rao: Bhagyajyothi Rao About book dedicated to Rao & Lal: R B Bapat, ISI Delhi Release of book-volume and special issue Address: BLS Prakasa Rao, CR Rao AIMSCS (Chief Guest) Address: Narayana Sabhahit, Pro Vice Chancellor (Tech & Sci) Vote of Thanks: Arathi Bhat
10:20 -13:00	Tribute to C R Rao & Technical Session
10:20 - 11:30	Open Session of Tribute to Calyampudi Radhakrishna Rao Organizers: Shreemathi Mayya, DDS, PSPH, MAHE and David Raj Michael, Vellore Inst. Tech., Chennai
ed Talks	
Chair - Kuncham Sy	am Prasad, Manipal Institute of Technology, MAHE
11:30 - 12:10	Simo Puntanen, Tampere University, Finland

Invited

11:30 - 12:10	Simo Puntanen, Tampere University, Finland
	Remarks on Professor CR Rao's life and work leading to

Remarks on Professor C.R. Rao's life and work leading to the 2023

International Prize in Statistics

Chair - Asha Kamath, Department of Data Science, PSPH, MAHE

12:15 – 12:55	B L S Prakasa Rao, C R Rao AIMSCS, Hyderabad, India
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Big Data - Fundamentals

13:00 -13:45 **Lunch Break**

Invited Talk 13:45 - 14:30

Chair - Harikrishnan P, Manipal Institute of Technology, MAHE

13:45 - 14:30 S. K. Neogy, Indian Statistical Institute, Delhi Center, India

On Special Matrix Classes in Linear Complementarity Theory and their

Applications in Lemke's Algorithm

14:30 - 16:10 Contributory Talks

Chair – Vasudeva Guddattu, Department of Data Science, PSPH, MAHE		
14:30 - 14:50	Harshitha A, <i>Manipal Institute of Technology, MAHE, Manipal</i> Title: Bounds for Energy of a Graph and its Complement with Self Loops	
14:50 - 15:10	Madhumitha K V, <i>Manipal Institute of Technology, MAHE, Manipal</i> Title: Minimum covering maximum reverse degree energy of graphs	
15:10 - 15:30	Shashwath Shetty, <i>Manipal Institute of Technology, MAHE, Manipal</i> Title: Degree Based Energies of Graphs with Self-Loops	
15:30 - 15:50	Kamalakshi K, <i>Mangalore University, Konaje</i> Title: Numerable Bundles and Bundles of Finite Type	
15:50 - 16:10	Akshata Shenoy, <i>Mangalore University, Konaje</i> Title: Minimum Dominating Spectra of graphs	
16:15 - 16:45	Valedictory Session Prize & Certificate Distribution	