International Conference on
Linear Algebra & its Applications (ICLAA 2014)

TENTATIVE SCHEDULE

(Please refer to Notice Board or Handout available at reception, for the final schedule)

18TH December 2014

8:30 – 9:30 Registration

9:35 – 9:45

Preview of the conference: K. Manjunatha Prasad (Organizing Secretary, ICLAA 2014)

Opening Remarks: Rajendra Bhatia (Chairman, Scientific Advisory Committee, ICLAA 2014)

9:50 – 11:30 PLENARY SESSIONS

9:50 – 10:30 Abraham Berman, Technion-Israel Institute of Technology, ISRAEL
Title: Completely positive and Copositive Matrices

10:50 – 11:30 V.S. Sunder, The institute of Mathematical Sciences, Chennai, INDIA
Title: On Uhlmann's theorem

11:35 – 13:15 Parallel Session I

11:35 – 12:05 Steve Haslett, Massey University, NEW ZEELAND
Title: Connections between model and design based estimation for linear models for sample survey data
12:10 – 12:40 M.S. Srivatsava, University of Toronto, CANADA
Title: Tests for covariance matrices in high dimension with less sample size

12:45 – 13:15 S.K. Neogy, Indian Statistical Institute, Delhi, INDIA
Title: On solving a quadratic programming problem involving Resistance distances in a graph in Polynomial time

11:35 – 13:15 Parallel Session II

11:35 – 12:05 Murali K Srinivasan, Indian Institute of Technology Bombay, INDIA
Title: A combinatorial determinant

12:10 – 12:40 Arbind Lal, Indian Institute of Technology Kanpur, INDIA
Title: Combinatorial heat and wave equations on certain classes of infinite Cayley and coset graphs

12:45 – 13:15 S. Sivaramakrishnan, Indian Institute of Technology Bombay, INDIA
Title: Squared distance matrix of a tree: Inverse and inertia

11:35 – 13:15 Parallel Session III

11:35 – 12:05 Bhaba Kumar Sarma, IIT Guwahati, INDIA
Title: The completion problems for some classes of Q-matrices

12:10 – 12:40 K.C. Sivakumar, Indian Institute of Technology Madras, Chennai
Title: On certain positivity classes of operators

12:45 – 13:15 Zheng Bing, Lanzhou University, CHINA
Title: Some new perturbation bounds of Moore-Penrose inverse
13:15 – 14:30  LUNCH BREAK

14:30 – 16:00  PLENARY SESSION

14:30 – 15:10  Wasin So
Title: Graph energy change due to a single edge deletion

15:15 – 15:45  Parallel Session I

15:15 – 15:45  Andre Leroy, Universite d’ Artois, FRANCE
Title: Continuant Polynomials

15:15 – 15:45  Parallel Session II

15:15 – 15:45  Sharad Sane, Indian Institute of Technology Bombay, India
Title: Linear Algebra in the study of combinatorial configurations

15:15 – 15:45  Parallel Session III

15:15 – 15:45  Sukanta Pati, Indian Institute of Technology Guwahati, India
Title: On the inverse of graphs and the reciprocal eigenvalue properties
15:45 – 16:05  Tea Break

16:05 – 18:05  Parallel Sessions

16:05 – 16:25  M. B. Bindu, KCG College of Technology, Karapakkam, Chennai 600097, INDIA
   Title: Some Characterization on Star Partial Ordering Matrices

16:25 – 16:45  T. Kurmayya, NIT Warangal, Warangal, India
   Title: Nonnegative Moore--Penrose inverses of unbounded gram operators

16:45 – 17:05  Manideepa Saha, National Institute of Technology Meghalaya, India
   Title: Characterization of $M_v$ matrices

17:05 – 17:25  K. Appi Reddy, National Institute of Technology, Warangal, India
   Title: A new characterization of nonnegativity of Moore--Penrose inverses of Gram Matrices in an Indefinite Inner Product Space

17:25 – 17:45  P. Santhosh Kumar, IIT Hyderabad, India
   Title: A note on spectral theorem for compact normal operators on a quaternionic Hilbert space

17:45 – 18:05  Jadav Ganesh, Indian Institute of Technology Hyderabad, India
   Title: On the structure of absolutely minimum attaining operators

16:05 – 18:05  Parallel Session II

16:05 – 16:25  Sasmita Barik, IIT Bhubaneswar, Bhubaneswar, INDIA
   Title: Algebraic Connectivity and the Characteristic Set of Product Graphs

16:25 – 16:45  Swarup Kumar Panda, Indian Institute of Technology Guwahati, India
Title: On the inverse of a graph on Godsil class
16:45 – 17:05
Arathi Bhat, Manipal Institute of Technology, Manipal, INDIA

Title: Some matrix equations of graphs
17:05 – 17:25
Arpita Das, Indian Institute of Technology Kharagpur, India

Title: The normalized Laplacian spectrum of corona, edge corona and neighborhood corona of two regular graphs
17:25 – 17:45
Yogeshri Gaidhani, M.E.S. Abasaheb Garware College, Pune, India.

Title: Linear Code using Incidence Matrix of Semigraph
17:45 – 18:05
K. C. Nandeesh, Karnatak University, Dharwad, India

Title: Eigenvalues of a digraphs

16:20 – 18:00 Parallel Session III

16:05 – 16:25
C. Jaya Subba Reddy, S.V. University, Tirupati, India

Title: Left multiplicative generalized derivations acting as homomorphism or anti-homomorphism in prime rings
16:25 – 16:45
R. Umamaheshwar Rao, Sreenidhi Institute of Science & Tech., Hyderabad

Title: Applications of Linear Systems in Science and Engineering
16:45 – 17:05
Rajaiah Dasari, Kakatiya University Warangal, India

Title: Loss Behavior of an Internet Router Employing Partial Buffer Sharing Mechanism under Self-Similar Input Traffic-Fractal Point Process
17:05 – 17:25
Mahendra Kumar Gupta, Indian Institute of Technology Patna, India

Title: PD observer design for linear descriptor systems with unknown inputs
17:25 – 17:45
K. Hemavathi, S.V. University, Tirupati, India

Title: Homomorphism and anti-homomorphism of reverse derivation on prime rings
17:45 – 18:05
Piyush Kumar Tripathi, Amity University Lucknow Campus, India

Title: Applications of Linear algebra in Engineering
18:30 – 19:00  Inaugural Function
19:00 – 20:00  Cultural Programme
20:00 – 21:00  Banquet

19\textsuperscript{th} December 2014

9:10 – 10:30  PLENARY SESSIONS

9:00 – 9:40  Steve Kirkland, University of Manitoba, CANADA
  Title: Sensitivity analysis for perfect state transfer in quantum spin networks
9:45 – 10:25  Rajendra Bhatia, Indian Statistical Institute, New Delhi 110 016, INDIA
  Title: Inertia of Lo\textbackslash'{e}wner matrices

10:30 – 10:50  TEA BREAK

10:50 – 13:00  Parallel Session I

10:50 – 11:20  Ebrahim Ghorbani, Institute for Research in Fundamental Sciences, IRAN
  Title: Rank and order of graphs
11:25 – 11:55  Ajit Iqbal Singh
  Title: The passage from two to three and three to infinity in classical to quantum channels
12:05 – 12:25  M. Vinay, Manipal Institute of Technology, Manipal University, India
  Title: On a class of Laplacian integral graphs
12:30 – 13:00  V Parameswaran, DDG, NSSO, Pune
Title: To be announced

10:50 – 13:00 Parallel Session II

10:50 – 11:10 Debajit Kalita, Tezpur University, Napam, India
Title: First eigenvectors of nonsingular unicyclic 3-colored digraphs
11:15 – 11:35 Sachindranath Jayaraman, IISER Thiruvananthapuram, India.
Title: On Semipositivity of Matrices
11:40 – 12:10 S. H. Kulkarni, Indian Institute of Technology Madras, India
Title: The null space theorem
12:15 – 12:35 Ritabrata Sengupta, Indian Statistical Institute, New Delhi, India.
Title: Determining quantum entanglement by using positive but not completely positive maps
12:40 – 13:00 K. V. Soumya, Manipal Institute of Technology, Manipal University, India
Title: Matrix product of distance graphs of cycle

10:50 – 13:00 Parallel Session III

10:50 – 11:10 Gopinath Sahoo, Indian Institute of Technology Bhubaneswar, India
Title: On the spectra of multi-digraphs
11:10 – 11:30 B. Elavarasan, Karunya University, Coimbatore, Tamilnadu, India
Title: Poset properties with respect to semi - ideal - based zero-divisor graph
11:30 – 11:50 Anjan Kumar Bhuniya, Viswa-Bharati, Santiniketan, West Bengal, India
Title: On inner product spaces over idempotent semirings
12:00 – 12:20 Kalyan Sinha, Indian Institute of Technology, Guwahati, India
Title: The P+0 -matrix Completion Problem
12:20 – 12:40 Debasisha Mishra, National Institute of Technology Raipur, India
Title: Some more comparison results of proper nonnegative splittings

11:40 – 13:00 Sriparna Chattopadhyay, Indian Institute of Technology Kharagpur, India
Title: On Adjacency and Laplacian Spectrum of Power Graphs of Some Finite Groups

13:00 – 14:30 LUNCH BREAK

14:30 – 16:00 PLENARY SESSIONS

14:30 – 15:10 Bhaskara Rao Kopparty, Indiana State University, USA
Title: To be announced

15:15 – 15:55 Simo Puntanen, University of Tampere, FINLAND
Title: Remarks on the connection between the fixed and mixed linear models

16:00 – 16:20 TEA BREAK

16:20 – 16:40 Photo Session

16:40 – 17:20 PLENARY SESSIONS

16:40 – 17:20 S.K. Jain, Ohio University, Athens, OH 45701, USA.
Title: Decomposition of a singular matrix ...

17:20 – 17:30 Discussion

17:30 - 19:30 Campus tour and excursion to Malpe & Udupi
20\textsuperscript{TH} December 2014

A day in honor of Professor Ravindra B Bapat

9:00 – 10:30

9:00 – 9:30  T.E.S. Raghavan, University of Illinois at Chicago, USA
Title: Correlated equilibria via minimax theorem

9:30 – 10:00  Arup Bose, Indian Statistical Institute, Kolkata, India
Title: High dimensional time series models

10:00 – 10:30  Rajaram Bhat, Indian Statistical Institute, Bangalore, INDIA
Title: Nilpotent completely positive maps and majorization

10:30 – 11:00  Tea Break.

11:00 – 11:45  Short Address by TESR, VSS, Pro VC
11:45 – 12:00  Felicitation
12:00 – 12:30  About Bapat : AKL/SK/Neogi/others
12:35 – 13:00  Address by Ravindra B Bapat

13:00 – 14:30  Lunch Break

14:30 – 15:00  FEEDBACK SESSION
15:00 – 16:00  Closing Ceremony
16:00  High Tea