International Conference on Numerical Linear Algebra & Its Applications

Schedule

Day 1	**January 15, 2013**
9:15 – 9:25 AM	**Opening remarks**
	Chair: Biswa Nath Datta
9:25 – 10:15	**Volker Mehrmann:** Self-adjoint Differential Operators and Optimal Control
10:15 – 10:30	**Rachel Kalpana Kalaimani** : Distance of a Pencil from having a Zero at Infinity
10:30 – 11:00	**Tea/Coffee**
	Chair: Volker Mehrmann
11:00 – 11:50	**Biswa Nath Datta:** Finite Element Model Updating: A Structured Inverse Eigenvalue Problem for Quadratic Matrix Pencil
11:50 – 12:20	**Vu Hoang Linh:** Robust Stability of Linear Delay Differential-Algebraic Systems
12:20 - 12:35	**Karuna Kalita:** Extracting Eigenvalues and Eigenvectors of a QEVP in the form of Homogenous Co-ordinates using Newton-Raphson Technique
12:40 – 14:00	**Lunch**
	Chair: Froilan M. Dopico
14:00 – 14:50	**David S. Watkins:** What's So Great About Krylov Subspaces?
14:50 – 15:20	**G. Sajith:** An I/O Efficient Algorithm for Hessenberg Reduction
15:20 – 15:35	**Kapil Ahuja:** Recycling BiCGSTAB
15:35 – 16: 00	**Tea/Coffee**
	Chair: David S. Watkins
16:00 – 16:50	**Froilan M. Dopico:** Structured Eigenvalue Condition Numbers for Parameterized Quasiseparable Matrices
16:50 – 17:20	**Bibhas Adhikari:** Entanglement of Multipartite Systems: A few Open Problems
17:20 – 17:35	**Namita Behera:** Sensitivity Analysis of Rational Eigenvalue Problem
19:30 -20:30	**Dinner**

Day 2	January 16, 2013
	Chair: D. Steven Mackey
9:00 – 9:50	**Balmohan V. Limaye:** Conditioning of a Basis
9:50 – 10:20	**Michael Karow:** The Separation of two Matrices and its Application in the Perturbation Theory of Eigenvalues and Invariant Subspaces
10:20 -10:35	**Debasisha Mishra:** B_+-Splittings of Matrices
10:35 – 11:00	**Tea/Coffee**
	Chair: Balmohan V. Limaye
11:00 – 11:50	**D. Steven Mackey:** Minimal Indices of Singular Matrix Polynomials: Some Recent Perspectives
11:50 – 12:20	**Madhu N. Belur:** Application of structured Linearization for Efficient Computation of the H-infinity Norm of a Transfer Matrix
12:20 – 12:35	**Vasilije Perovi´c:** Linearizations of Matrix Polynomials in Bernstein Basis
12:35 – 14:00	**Lunch**
	Chair: Heike Faßbender
14:00 – 14:50	**Michael L. Overton:** Characterization and Construction of the Nearest Defective Matrix via Coalescence of Pseudospectral Components
14:50 – 15:20	**Emre Mengi:** Matrix Functions with Specified Eigenvalues
15:20 – 15:35	**Ravi Srivastava:** Distance problems for Hermitian Pencils – an epsilon Pseudospectra based Approach
15:35 – 16: 00	**Tea/Coffee**
	Chair: Michael L. Overton
16:00 – 16:50	**Heike Faßbender:** Structured Eigenvalue Problems – Structure-Preserving Algorithms, Structured Error Analysis
16:50 – 17:05	**Bibek Kabi:** Comparative Study of Tridiagonalization Methods for Fast SVD
17:05-17:20	**Shwetabh Srivastava:** A family of Iterative Methods for Computing the Moore–Penrose Generalized Inverse
17:20 – 17:35	**C. S. Sastry:** Sparse Description of Linear Systems and Application in Computed Tomography
19:30 -20:30	**Dinner**

Day 3	January 17, 2013
	Chair: Christian Mehl
9:00 – 9:50	**Valeria Simoncini:** On the Numerical Solution of Large-scale Linear Matrix Equations
9:50 – 10:20	**Soumyendu Raha:** A Regularization Based Method for Dynamic Optimization with High Index DAEs.
10:20 -10:35	**Ayaz Ahmad:** Numerical Gradient Algorithms for Eigenvalue Calculations
10:35 – 11:00	**Tea/Coffee**
	Chair: Valeria Simoncini
11:00 – 11:50	**Christian Mehl:** Structured Backward Errors for Eigenvalues of Hermitian Pencils
11:50 – 12:20	**Sk Safique Ahmad:** Backward Errors for Eigenvalues and Eigenvectors of Structured Eigenvalue Problems
12:20 – 12:35	**Punit Sharma:** Structured Backward Error of Approximate Eigenvalues of T-Palindromic Polynomials
12:35 – 14:00	Lunch
	Local sightseeing
19:30 -20:30	**Conference Dinner**

Day 4	January 18, 2013
	Chair: Peter Benner
9:00 – 9:50	**Stephen Kirkland:** Computation Considerations for the Group Inverse for an Irreducible M-Matrix
9:50 – 10:20	**K.C. Sivakumar:** Nonnegative Generalized Inverses and Certain Subclasses of Singular Q-matrices
10:20 -10:35	**Manideepa Saha:** A Constructive Method for obtaining a Preferred Basis from a Quasi-Preferred Basis for M-matrices
10:35 – 11:00	**Tea/Coffee**
	Chair: Stephen Kirkland
11:00 – 11:50	**Ivan Slapnicar:** Accurate Eigenvalue Decomposition of Arrowhead Matrices and Applications
11:50 – 12:05	**Sukhjit Singh:** Eigenvalues of Symmetric Interval Matrices using a Single step Eigen Perturbation Method
12:05 – 14:00	**Lunch**
	Chair: Ivan Slapnicar
14:00 – 14:50	**Peter Benner:** Linear and Nonlinear Matrix Equations Arising in Model Reduction
14:50 – 15:20	**H. Pillai:** A Linear algebraic look at Differential Ricatti equation and Algebraic Ricatti (in)equality
15:20 - 15:30	**Closing**
15:30 – 16: 00	**Tea/Coffee**
19:30 -20:30	**Dinner**