Program

July 21　(Friday)

15:00-18:00　Registration

July 22   (Saturday)

9:00-9:30   Opening and Photo   Chair: Xiao-Xia Guo

9:30-10:15   Invited Plenary Talk   Chair: Zhong-Zhi Bai

9:30-10:15   Yang Cao
Accelerated Modulus-Based Matrix Splitting Iteration Methods for Mixed-Size Cell Circuits Legalization

10:15-10:25 Tea Break

10:25-11:55 Invited Plenary Talks   Chair: Hua Dai

10:25-11:10 Qing-Wen Wang
Making Linear Algebra Easier to Teach and Learn

11:10-11:55 Yu-Hong Ran
Block-Circulant with Circulant-Block Preconditioners for Two-Dimensional Spatial Fractional Diffusion Equations

12:00-13:30 Lunch

14:30-16:10 Contributed Talks   Chair: Li-Li Zhang

14:30-14:55 Fu-Rong Lin
Fractional Centered Difference Schemes and Banded Preconditioners for Nonlinear Riesz Space Variable-Order Fractional Diffusion Equations

14:55-15:20 Li Wang   (Hunan)
The New Solution Bounds of the Discrete Algebraic Riccati Equation and Their Applications in Redundant Control Inputs Systems

15:20-15:45 Yu-Mei Huang
TV Regularized Method for Multivariate Time Series Segmentation

15:45-16:10 Kang-Ya Lu
An Economic Implementation of the Optimal Rotated Block-Diagonal Preconditioning Method

16:10-16:20 Tea Break

16:20-18:25 Contributed Talks   Chair: Yu-Mei Huang

16:20-16:45 Li-Li Zhang
Modulus-Based Multigrid Methods for Linear Complementarity Problems

16:45-17:10 Ai-Li Yang
Multi-Parameter Dimensional Split Preconditioner for Three-by-Three Block System of Linear Equations

17:10-17:35 Sheng-Xin Zhu
Importance of Matrix Computing Education in the AI Era

17:35-18:00 Lu Wang
On Relaxed Greedy Randomized Augmented Kaczmarz Methods for Solving Large Sparse Inconsistent Linear Systems

18:00-18:25 Jian-Hua Zhang
On Maximum Residual Nonlinear Kaczmarz-Type Algorithms for Large Nonlinear Systems of Equations

18:30-19:30 Dinner

July 23　(Sunday)

9:30-10:15　**Invited Plenary Talk　Chair:　Gang Wu**
9:30-10:15　**Min-Li Zeng**
　　　　　　Matrix-Splitting Iterative Methods for Nonlinear Saddle-Point Problems from Optimization Problems

10:15-10:25　**Tea Break**

10:25-11:55　**Invited Plenary Talks　Chair:　Zhi-Ru Ren**
10:25-11:10　**Lu Lin**
　　　　　　The Practice and Reflection of Linear Algebra Course Teaching
11:10-11:55　**Chang-Jiang Bu**
　　　　　　The Matrices, Tensors, the Spectra of Graphs and Hypergraphs

12:00-13:30　**Lunch**

14:30-16:10　**Contributed Talks　Chair:　Jian-Jun Zhang**
14:30-14:55　**Lu-Xin Wang**
　　　　　　Modulus-Based Matrix Splitting Iteration Methods for Horizontal Quasi-Complementarity Problem
14:55-15:20　**Ting-Ting Feng**
　　　　　　Randomized Kaczmarz Method for Solving Large-Scale Sylvester Matrix Equations
15:20-15:45　**Xian-Ping Wu**
　　　　　　Sharp Error Bounds of the Extended Vertical Linear Complementarity Problem
15:45-16:10　**Fang Chen**
　　　　　　Improved Splitting Preconditioner for Double Saddle Point Problems Arising from Liquid Crystal Director Modeling

16:10-16:20　**Tea Break**

16:20-18:00 Contributed Talks   Chair: Fu-Rong Lin

16:20-16:45 Zhao-Zheng Liang
Fast Rotated SOR Method for Block Two-by-Two Linear Systems with Application to PDE-Constrained Optimal Control Problems

16:45-17:10 Yue-Hua Feng
On Computing HITS ExpertRank via Lumping the Hub Matrix

17:10-17:35 Chen-Can Zhou
A Modified Newton-Based Matrix Splitting Iteration Method for Generalized Absolute Value Equations

17:35-18:00 Li-Li Xing
A Class of Pseudoinverse-Free Greedy Block Nonlinear Kaczmarz Methods for Nonlinear Systems of Equations

18:10-20:30 Table Dinner

July 24   (Monday)

9:30-10:15   Invited Plenary Talk   Chair: Wen Li
9:30-10:15   Zheng-Sheng Wang
Enriched Subspace Regularization for Large
Discrete Ill-Posed Problems

10:15-10:25 Tea Break

10:25-11:10 Invited Plenary Talk   Chair: Zheng-Da Huang
10:25-11:10 Pei-Chang Guo
On Regularization of Convolutional Kernel Tensors in
Neural Networks

11:10-12:00 Contributed Talks   Chair: Sheng-Xin Zhu
11:10-11:35 Lu-Bin Cui
A Projection Method Based on Discrete Normalized
Dynamical System for Computing the C-Eigenpairs of
a Piezoelectric Tensor
11:35-12:00 Kang Zhao
Eigenvalue Embedding of Damped Vibroacoustic
System with No-Spillover

12:00-13:30 Lunch

14:30-16:10 Contributed Talks   Chair: Xu Li
14:30-14:55 Tao Li
Structure Preserving Quaternion Biconjugate Gradient
Method
14:55-15:20 Qi-Lun Luo
Multi-Dimensional Data Processing with Bayesian
Inference via Structural Block Decomposition
15:20-15:45 Peng-Peng Xie
A Randomized Singular Value Decomposition for
Third-Order Oriented Tensors
15:45-16:10 Wei-Ru Xu

A Divide-and-Conquer Method for Constructing a Pseudo-Jacobi Matrix from Mixed Given Data

16:10-16:20 Tea Break

16:20-18:00 Contributed Talks   Chair: Ai-Li Yang

16:20-16:40 Ying Gu
A Semi-Randomized Sketch-and-Project Method with Simple Random Sampling for Large-Scale Linear Systems

16:40-17:00 Yong-Yan Guo
A Restarted Large-Scale Spectral Clustering with Self-Guiding and Block Diagonal Representation

17:00-17:20 Shu-Ru He
Practical RPCG Methods for Complex Symmetric Linear Systems

17:20-17:40 Zong-Yuan Han
Logarithmic Determinant Calculation Based on Variance Reduction Technique

17:40-18:00 Bo Feng
A Block Lanczos Method for Large-Scale Quadratic Minimization Problems with Orthogonality Constraints

18:00-18:20 Closing   Chair: Wei-Guo Wang

18:30-20:00 Dinner

July 25　(Tuesday)

9:30-12:00　Discussion

12:00-13:30　Lunch

14:30-18:00　Discussion

18:10-20:00　Dinner

July 26　(Wednesday)

Departure