# siam 2024 | Conference on Applied Linear Algebra

## May 13–17, 2024 • Sorbonne Université, Paris, France

**All sessions are held on the Pierre and Marie Curie campus,
Sorbonne Université International Conference Center (CICSU), unless otherwise noted.)**

**Online Program and Mobile App**

Attendees are encouraged to visit
*https://www.siam.org/conferences/cm/program/program-and-abstracts/la24-program-abstracts*
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**SIAM Events Mobile App**



*www.tripbuildermedia.com/apps/siam*

## siam | Society for Industrial and Applied Mathematics

## Monday, May 13

**7:30 a.m. – 5:15 p.m.**
Registration
*Auditorium Foyer CICSU*

**7:50 a.m. – 8:00 a.m.**
Welcome Remarks
*Auditorium CICSU*

**8:00 a.m. – 8:45 a.m.**
**IP1** How to Reveal a Matrix's Rank
Alex Townsend, Cornell University, U.S.
*Auditorium CICSU*

**8:45 a.m. – 8:55 a.m.**
Intermission

**8:55 a.m. – 10:35 a.m.**
**Concurrent Sessions**
**MS1** Operator Learning and Linear Algebra - Part I of III
*Auditorium CICSU*
**MS2** Numerical Linear Algebra for Optimization and Data Science - Part I of II
*44-45 - 108 CICSU*
**MS4** Matrix Manifolds in Optimization and Machine Learning - Part I of II
*44-54 - 107 CICSU*
**MS5** Applications of Tensors in Scientific Computing - Part II of III
*44-54 - 109 CICSU*
**MS6** Advances in Block Preconditioners and Multilevel Methods for Numerical PDEs - Part I of II
*44-54 - 105 CICSU*
**MS7** Scalable Solvers for Sparse and Hierarchical Low-rank Systems - Part I of III
*54-55 - Room 125*
**MS8** Advances in Linear Algebra Techniques for the Solution of Ill-posed Inverse Problems - Part I of II
*54-55 - Room 201*

**10:35 a.m. – 11:00 a.m.**
Coffee Break
*Auditorium Foyer CICSU*

**11:00 a.m. – 5:00 p.m.**
SIAM Book Sales
*Auditorium Foyer CICSU*

**11:00 a.m. – 12:40 p.m.**
**Concurrent Sessions**
**MT1** An Introduction to Randomized Algorithms in Linear Algebra and Scientific Computing
*44-45 - 106 CICSU*
**MS9** Operator Learning and Linear Algebra - Part II of III
*Auditorium CICSU*
**MS10** Numerical Linear Algebra for Optimization and Data Science - Part II of II
*44-45 - 108 CICSU*
**MS11** Matrix Manifolds in Optimization and Machine Learning - Part II of II
*44-54 - 107 CICSU*

## Monday, May 13

**MS12** Applications of Tensors in Scientific Computing - Part III of III
*44-54 - 109 CICSU*
**MS13** Advances in Block Preconditioners and Multilevel Methods for Numerical PDEs - Part II of II
*44-54 - 105 CICSU*
**MS14** Scalable Solvers for Sparse and Hierarchical Low-rank Systems - Part II of III
*54-55 - Room 125*
**MS15** Linear Algebra Education for the Modern World - Part I of II
*54-55 - Room 108*
**MS16** Advances in Linear Algebra Techniques for the Solution of Ill-posed Inverse Problems - Part II of II
*54-55 - Room 201*

**12:40 p.m. – 2:10 p.m.**
Lunch Break

**2:10 p.m. – 2:55 p.m.**
**IP2** Conservation Laws for Gradient Flows
Gabriel Peyré, CNRS and École Normale Supérieure, Paris, France
*Auditorium CICSU*

**2:55 p.m. – 3:20 p.m.**
Coffee Break
*Auditorium Foyer CICSU*

**3:20 p.m. – 5:00 p.m.**
**Concurrent Sessions**
**MT2** Linear Algebra Challenges in Electronic Structure Simulations
*44-45 - 106 CICSU*
**MS17** Operator Learning and Linear Algebra - Part III of III
*Auditorium CICSU*
**MS18** Quantum Numerical Linear Algebra - Part I of II
*44-45 - 108 CICSU*
**MS19** Signal Analysis on Graphs
*44-54 - 107 CICSU*
**MS20** Matrix Functions and Matrix Equations: Theory, Algorithms, and Applications - Part I of III
*44-54 - 109 CICSU*
**MS21** Sparsity in Matrix and Tensor Computations - Part I of II
*44-54 - 105 CICSU*
**MS22** Scalable Solvers for Sparse and Hierarchical Low-rank Systems - Part III of III
*54-55 - Room 125*
**MS23** Linear Algebra Education for the Modern World - Part II of II
*54-55 - Room 108*
**MS24** Parametric and Polynomial Eigenvalue Problems and Their Applications - Part I of II
*54-55 - Room 201*

**5:00 p.m. - 5:10 p.m.**
Intermission

## Monday, May 13

**5:10 p.m. – 6:25 p.m.**
**Concurrent Sessions**
**MS25** The Linear Algebra of Multilayer Networks
*Auditorium CICSU*
**MS26** Quantum Numerical Linear Algebra - Part II of II
*44-45 - 108 CICSU*
**MS27** Iterative Methods of Linear Algebra in Optimization - Part I of III
*44-45 - 106 CICSU*
**MS28** Deep Learning Methods for Numerical Linear Algebra - Part I of II
*44-54 - 107 CICSU*
**MS29** Matrix Functions and Matrix Equations: Theory, Algorithms, and Applications - Part II of III
*44-54 - 109 CICSU*
**MS30** Sparsity in Matrix and Tensor Computations - Part II of II
*44-54 - 105 CICSU*
**MS31** Generalized Inverses, Operator and Matrix/Tensor Equations and its Application - Part I of III
*54-55 - Room 125*
**MS32** Parametric and Polynomial Eigenvalue Problems and Their Applications - Part II of II
*54-55 - Room 201*

**6:25 p.m. – 6:30 p.m.**
Intermission

**6:30 p.m. – 8:30 p.m.**
**PP1** Poster Session and Welcome Reception
*Patio outside Auditorium CICSU*

## Tuesday, May 14

**7:30 a.m. – 5:45 p.m.**
Registration
*Auditorium Foyer CICSU*

**8:00 a.m. – 8:45 a.m.**
**IP3** Randomly Pivoted Cholesky
Joel A. Tropp, California Institute of Technology, U.S.
*Auditorium CICSU*

**8:45 a.m. – 8:55 a.m.**
Intermission

**8:55 a.m. – 10:35 a.m.**
**Concurrent Sessions**
**MT3** A Hands-on Tutorial on <T>LAPACK
*44-45 - 106 CICSU*
**MS33** Quantum Algorithms for Scientific Computing - Part I of III
*Auditorium CICSU*
**MS34** Recent Advances and Critical Challenges in Randomized Linear Algebra - Part I of II
*44-45 - 108 CICSU*
**MS35** Structured Matrices: Applications, Approximations and Arithmetics - Part I of III
*44-54 - 107 CICSU*

## Tuesday, May 14

MS36 Matrix Functions and Matrix Equations: Theory, Algorithms, and Applications - Part III of III
*44-54 - 109 CICSU*
MS37 Exploiting Low-dimensional Structures in Data Science - Part I of II
*44-54 - 105 CICSU*
MS38 Low-rank Tensor Methods for High-dimensional Problems
*54-55 - Room 125*
MS39 Generalized Inverses, Operator and Matrix/Tensor Equations and its Application - Part II of III
*54-55 - Room 108*

**9:00 a.m. – 5:00 p.m.**
SIAM Book Sales
*Auditorium Foyer CICSU*

**10:35 a.m. – 11:00 a.m.**
Coffee Break
*Auditorium Foyer CICSU*

**11:00 a.m. – 12:40 p.m.**
**Concurrent Sessions**
MT4 PETSc, the Portable Extensible Toolkit for Scientific Computations
*44-45 - 106 CICSU*
MS41 Quantum Algorithms for Scientific Computing - Part II of III
*Auditorium CICSU*
MS42 Recent Advances and Critical Challenges in Randomized Linear Algebra - Part II of II
*44-45 - 108 CICSU*
MS43 Structured Matrices: Applications, Approximations and Arithmetics - Part II of III
*44-54 - 107 CICSU*
MS44 Iterative Methods for Inverse Problems and Uncertainty Quantification
*44-54 - 109 CICSU*
MS45 Exploiting Low-dimensional Structures in Data Science - Part II of II
*44-54 - 105 CICSU*
MS46 Approximate Computing Techniques for Orthogonalization Processes
*54-55 - Room 125*
MS47 New Trends in Tensor Theory, Computation, and Application - Part I of II
*54-55 - Room 108*

**12:40 p.m. – 2:10 p.m.**
Lunch Break

**2:10 p.m. – 2:55 p.m.**
IP4 Randomized Orthogonalization Methods
Ilse C. F. Ipsen, North Carolina State University, U.S.
*Auditorium CICSU*

**2:55 p.m. – 3:20 p.m.**
Coffee Break
*Auditorium Foyer CICSU*

## Tuesday, May 14

**3:20 p.m. – 5:00 p.m.**
**Concurrent Sessions**
MS49 Quantum Algorithms for Scientific Computing - Part III of III
*Auditorium CICSU*
MS50 Numerical Linear Algebra Algorithms to Solve (Multivariate) Polynomial Systems - Part I of II
*44-45 - 108 CICSU*
MS51 Iterative Methods of Linear Algebra in Optimization - Part II of III
*44-45 - 106 CICSU*
MS52 Structured Matrices: Applications, Approximations and Arithmetics - Part III of III
*44-54 - 107 CICSU*
MS53 Numerical Linear Algebra for Gaussian Processes - Part I of II
*44-54 - 109 CICSU*
MS54 Innovations in Linear Solvers and Related Algorithms - Part I of II
*44-54 - 105 CICSU*
MS55 Efficient Linear Solvers for Block-structured Multi-physics Simulations - Part I of II
*54-55 - Room 125*
MS56 New Trends in Tensor Theory, Computation, and Application - Part II of II
*54-55 - Room 108*

**5:00 p.m. – 5:10 p.m.**
Intermission

**5:10 p.m. – 6:25 p.m.**
**Concurrent Sessions**
MS58 Applications of Tensors in Scientific Computing - Part I of III
*Auditorium CICSU*
MS59 Numerical Linear Algebra Algorithms to Solve (Multivariate) Polynomial Systems - Part II of II
*44-45 - 108 CICSU*
MS60 Iterative Methods of Linear Algebra in Optimization - Part III of III
*44-45 - 106 CICSU*
MS61 Deep Learning Methods for Numerical Linear Algebra - Part II of II
*44-54 - 107 CICSU*
MS62 Numerical Linear Algebra for Gaussian Processes - Part II of II
*44-54 - 109 CICSU*
MS63 Innovations in Linear Solvers and Related Algorithms - Part II of II
*44-54 - 105 CICSU*
MS64 Efficient Linear Solvers for Block-structured Multi-physics Simulations - Part II of II
*54-55 - Room 125*
MS65 Generalized Inverses, Operator and Matrix/Tensor Equations and its Application - Part III of III
*54-55 - Room 108*
MS66 Structured Matrices Approach in Low-complexity Algorithms and Applications - Part I of III
*54-55 - Room 201*

**6:25 p.m. - 6:35 p.m.**
Intermission

## Tuesday, May 14

**6:35 p.m. – 7:20 p.m.**
SP1 SIAM Activity Group on Linear Algebra Early Career Prize
John Urschel, Massachusetts Institute of Technology, U.S.
*Auditorium CICSU*

**7:30 p.m. – 9:00 p.m.**
SIMAX Editorial Board Meeting
*Off Campus*

## Wednesday, May 15

**7:30 a.m. – 4:00 p.m.**
Registration
Auditorium Foyer
*CICSU*

**8:00 a.m. – 8:45 a.m.**
IP5 Numerical Linear Algebra Inside an Acoustic Scattering Problem
Heather D. Wilber, University of Washington, U.S.
*Auditorium CICSU*

**8:45 a.m. – 8:55 a.m.**
Intermission

**8:55 a.m. – 10:35 a.m.**
**Concurrent Sessions**
MT5 Kirchoff Forests for Graph Linear Algebra
*44-45 - 107 CICSU*
MS67 RandNLA: From Theory to Practice - Part I of II
*Auditorium CICSU*
MS68 Tensor Decompositions and Applications - Part I of III
*44-45 - 108 CICSU*
MS69 NLA for Inverse Problems with Applications to Data Assimilation and Imaging - Part I of II
*44-45 - 106 CICSU*
MS70 Applied Linear Algebra and Computational Issues in Electromagnetics and Composites - Part I of III
*44-54 - 109 CICSU*
MS71 Geometric Methods for Matrix Spaces - Part I of II
*44-54 - 105 CICSU*
MS72 Eigenvector-Dependent Nonlinear Eigenvalue Problems and Applications - Part I of III
*54-55 - Room 125*
MS73 Structured Matrices Approach in Low-complexity Algorithms and Applications - Part II of III
*54-55 - Room 201*

**9:00 a.m. – 5:00 p.m.**
SIAM Book Sales
*Auditorium Foyer CICSU*

## Wednesday, May 15

**10:35 a.m. – 11:00 a.m.**
Coffee Break
*Auditorium Foyer CICSU*

**11:00 a.m. – 12:40 p.m.**
**Concurrent Sessions**
**MS74** RandNLA: From Theory to Practice - Part II of II
*Auditorium CICSU*
**MS75** Tensor Decompositions and Applications - Part II of III
*44-45 - 108 CICSU*
**MS76** NLA for Inverse Problems with Applications to Data Assimilation and Imaging - Part II of II
*44-45 - 106 CICSU*
**MS77** Recent Advances in Iterative Solvers for Non SPD Problems - Part I of II
*44-45 - 107 CICSU*
**MS78** Applied Linear Algebra and Computational Issues in Electromagnetics and Composites - Part II of III
*44-54 - 109 CICSU*
**MS79** Geometric Methods for Matrix Spaces - Part II of II
*44-54 - 105 CICSU*
**MS80** Eigenvector-Dependent Nonlinear Eigenvalue Problems and Applications - Part II of III
*54-55 - Room 125*
**MS81** Structured Matrices Approach in Low-complexity Algorithms and Applications - Part III of III
*54-55 - Room 201*

**12:40 p.m. – 2:10 p.m.**
Lunch Break

**2:10 p.m. – 2:55 p.m.**
**IP6** Global Convergence of Hessenberg Shifted QR
Nikhil Srivastava, University of California, Berkeley, U.S.
*Auditorium CICSU*

**2:55 p.m. – 3:20 p.m.**
Coffee Break
*Auditorium Foyer CICSU*

**3:20 p.m. – 5:00 p.m.**
**Concurrent Sessions**
**MS40** Manifold Methods in Linear Algebra - Part I of III
*54-55 - Room 108*
**MS82** Developments in Structured Matrices - Part I of III
*Auditorium CICSU*
**MS83** Tensor Decompositions and Applications - Part III of III
*44-45 - 108 CICSU*
**MS84** Matrix and Tensor Equations in Action: Simulation, Model Reduction and Scientific Machine Learning - Part I of III
*44-45 - 106 CICSU*
**MS85** Recent Advances in Iterative Solvers for Non SPD Problems - Part II of II
*44-45 - 107 CICSU*

## Wednesday, May 15

**MS86** Applied Linear Algebra and Computational Issues in Electromagnetics and Composites - Part III of III
*44-54 - 109 CICSU*
**MS87** Sparse Linear Systems at Large Scale - Part I of III
*44-54 - 105 CICSU*
**MS88** Eigenvector-Dependent Nonlinear Eigenvalue Problems and Applications - Part III of III
*54-55 - Room 125*
**MS89** Basic Properties of the Ranks of Tensors
*54-55 - Room 201*

**5:00 p.m. – 5:10 p.m.**
Intermission

**5:10 p.m. – 6:40 p.m.**
**Concurrent Sessions**
**CP1** Eigenvalue Problems: Algorithms
*Auditorium CICSU*
**CP2** Linear Systems
*44-45 - 108 CICSU*
**CP3** Applications
*44-45 - 106 CICSU*
**CP4** Optimization
*44-45 - 107 CICSU*
**CP5** Low-rank Approximation
*44-54 - 109 CICSU*
**CP6** Non-negativity and Optimization
*44-54 - 105 CICSU*
**CP7** Preconditioning
*54-55 - Room 125*
**CP8** Eigenvalue Problems: Theory
*54-55 - Room 201*

**6:45 p.m. – 7:30 p.m.**
SIAG/LA Business Meeting
*Auditorium CICSU*

## Thursday, May 16

**7:30 a.m. – 4:00 p.m.**
Registration
*Auditorium Foyer CICSU*

**8:00 a.m. – 8:45 a.m.**
**IP7** Eigenstructures of Low-rank Matrix Polynomials (Supported in Cooperation with the International Linear Algebra Society)
Andrii Dmytryshyn, Örebro University, Sweden
*Auditorium CICSU*

**8:45 a.m. – 8:55 a.m.**
Intermission

**8:55 a.m. – 10:35 a.m.**
**Concurrent Sessions**
**MS48** Manifold Methods in Linear Algebra - Part II of III
*54-55 - Room 108*

## Thursday, May 16

**MS90** Developments in Structured Matrices - Part II of III
*Auditorium CICSU*
**MS91** Iterative Methods Meet Data Science - Part I of II
*44-45 - 108 CICSU*
**MS92** Matrix and Tensor Equations in Action: Simulation, Model Reduction and Scientific Machine Learning - Part II of III
*44-45 - 106 CICSU*
**MS93** Recent Trends in Tensors and Quantum Information - Part I of II
*44-45 - 107 CICSU*
**MS94** Randomized Sketching and Krylov Methods - Part I of II
*44-54 - 109 CICSU*
**MS95** Sparse Linear Systems at Large Scale - Part II of III
*44-54 - 105 CICSU*
**MS96** Learning and Clustering Tasks on Graphical Structures - Part I of II
*54-55 - Room 125*
**MS97** Matrix and Tensor Computations in Recent Applications of Biological Sciences
*54-55 - Room 201*

**9:00 a.m. – 5:00 p.m.**
SIAM Book Sales
*Auditorium Foyer CICSU*

**10:35 a.m. – 11:00 a.m.**
Coffee Break
*Auditorium Foyer CICSU*

**11:00 a.m. – 12:40 p.m.**
**Concurrent Sessions**
**MS98** Developments in Structured Matrices - Part III of III
*Auditorium CICSU*
**MS99** Iterative Methods Meet Data Science - Part II of II
*44-45 - 108 CICSU*
**MS100** Matrix and Tensor Equations in Action: Simulation, Model Reduction and Scientific Machine Learning - Part III of III
*44-45 - 106 CICSU*
**MS101** Recent Trends in Tensors and Quantum Information - Part II of II
*44-45 - 107 CICSU*
**MS102** Randomized Sketching and Krylov Methods - Part II of II
*44-54 - 109 CICSU*
**MS103** Sparse Linear Systems at Large Scale - Part III of III
*44-54 - 105 CICSU*
**MS104** Learning and Clustering Tasks on Graphical Structures - Part II of II
*54-55 - Room 125*
**MS105** Recent Development on Contour Integral Based Numerical Linear Algebra Methods
*54-55 - Room 108*
**MS106** Acceleration of Methods for the Solution of Large Scale Problems - Part I of II
*54-55 - Room 201*

| Thursday, May 16 | Friday, May 17 | Friday, May 17 |
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**12:40 p.m. – 2:10 p.m.**
Lunch Break

**2:10 p.m. – 2:55 p.m.**
**IP8** A Journey in the Kemeny Constant: Centrality Measures, Stochastic Complementation and Infinite-dimensional Matrices (supported in cooperation with the International Linear Algebra Society)
Beatrice Meini, University of Pisa, Italy
*Auditorium CICSU*

**2:55 p.m. – 3:20 p.m.**
Coffee Break
*Auditorium Foyer CICSU*

**3:20 p.m. – 5:00 p.m.**
**Concurrent Sessions**
**MS57** Manifold Methods in Linear Algebra - Part III of III
*54-55 - Room 108*
**MS107** New Directions in Iterative Methods and Applications - Part I of III
*Auditorium CICSU*
**MS108** Nonlinear Approximation and Numerical Linear Algebra - Part I of III
*44-45 - 108 CICSU*
**MS109** Tensor Decompositions and Algorithms - Part I of III
*44-45 - 106 CICSU*
**MS110** Negative Eigenvalues and Nonconvex Optimization
*44-45 - 107 CICSU*
**MS111** Recent Advances in Using Low-rank Models for Statistics, Machine Learning, and Data Science
*44-54 - 109 CICSU*
**MS112** Tropical Methods for Numerical Linear Algebra
*44-54 - 105 CICSU*
**MS113** Approximate Computing Techniques in Numerical Linear Algebra - Part I of III
*54-55 - Room 125*
**MS114** Acceleration of Methods for the Solution of Large Scale Problems - Part II of II
*54-55 - Room 201*

**5:00 p.m. – 5:10 p.m.**
Intermission

**5:10 p.m. – 5:55 p.m.**
**SP2** SIAG/LA Best Paper Prize
Nicolas Boulle, University of Cambridge, United Kingdom
*Auditorium CICSU*

**5:55 p.m. – 6:00 p.m.**
Intermission

**6:00 p.m. – 7:30 p.m.**
Nicholas J. Higham Memorial Session
*Auditorium CICSU*

**7:30 a.m. – 2:00 p.m.**
Registration
*Auditorium Foyer CICSU*

**8:00 a.m. – 8:45 a.m.**
**IP9** Accurate and Verified Computations in Numerical Linear Algebra
Takeshi Ogita, Waseda University, Japan
*Auditorium CICSU*

**8:45 a.m. – 8:55 a.m.**
Intermission

**8:55 a.m. – 10:35 a.m.**
**Concurrent Sessions**
**MS115** New Directions in Iterative Methods and Applications - Part II of III
*Auditorium CICSU*
**MS116** Nonlinear Approximation and Numerical Linear Algebra - Part II of III
*44-45 - 108 CICSU*
**MS117** Tensor Decompositions and Algorithms - Part II of III
*44-45 - 106 CICSU*
**MS118** Stochastic Iterative Methods for Mathematical Data Science - Part I of II
*44-45 - 107 CICSU*
**MS119** Recent Advances in Modeling and Numerical Methods for Inverse Problems - Part I of II
*44-54 - 109 CICSU*
**MS120** Low-rank Numerical Patterns of Dynamical Systems and Neural Networks - Part I of II
*44-54 - 105 CICSU*
**MS121** Approximate Computing Techniques in Numerical Linear Algebra - Part II of III
*54-55 - Room 125*
**MS122** Functions of Matrices and Actions Thereof - Part I of II
*54-55 - Room 108*

**9:00 a.m. – 11:30 a.m.**
SIAM Book Sales
*Auditorium Foyer CICSU*

**10:35 a.m. – 11:00 a.m.**
Coffee Break
*Auditorium Foyer CICSU*

**11:00 a.m. – 12:15 p.m.**
**Concurrent Sessions**
**CP9** Tensors and Matrix Multiplication
*Auditorium CICSU*
**CP10** Randomized Methods and Polynomial Systems
*44-45 - 108 CICSU*
**CP11** Spectral Analysis and Preconditioning
44-45 - 106 CICSU
**CP12** Graphs
*44-45 - 107 CICSU*
**CP13** Functions and Matrices
*44-54 - 109 CICSU*
**CP14** Quantum, Control, and Model Reduction
*44-54 - 105 CICSU*

**CP15** Inverse Problems and the Kaczmarz Method
*54-55 - Room 125*
**CP16** Interval Matrices and Matrix Inequalities
*54-55 - Room 108*

**12:15 p.m. – 1:45 p.m.**
Lunch Break

**1:45 p.m. – 3:25 p.m.**
**Concurrent Sessions**
**MS123** New Directions in Iterative Methods and Applications - Part III of III
*Auditorium CICSU*
**MS124** Nonlinear Approximation and Numerical Linear Algebra - Part III of III
*44-45 - 108 CICSU*
**MS125** Tensor Decompositions and Algorithms - Part III of III
*44-45 - 106 CICSU*
**MS126** Stochastic Iterative Methods for Mathematical Data Science - Part II of II
*44-45 - 107 CICSU*
**MS127** Recent Advances in Modeling and Numerical Methods for Inverse Problems - Part II of II
*44-54 - 109 CICSU*
**MS128** Low-rank Numerical Patterns of Dynamical Systems and Neural Networks - Part II of II
*44-54 - 105 CICSU*
**MS129** Approximate Computing Techniques in Numerical Linear Algebra - Part III of III
*54-55 - Room 125*
**MS130** Functions of Matrices and Actions Thereof - Part II of II
*54-55 - Room 108*

**3:25 p.m. – 3:50 p.m.**
Coffee Break
*Auditorium Foyer CICSU*

**3:50 p.m. – 4:35 p.m.**
**IP10** Coupled Matrix and Tensor Factorizations – Improving our Understanding of Complex Systems Through the Analysis of Temporal and Multimodal Data
Evrim Acar Ataman, Simula Metropolitan Center for Digital Engineering, Norway
*Auditorium CICSU*

**4:35 p.m. – 4:45 p.m.**
Closing Remarks
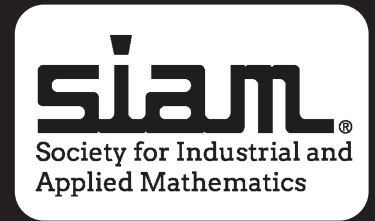*Auditorium CICSU*

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**ABBREVIATION KEY**

| | |
| --- | --- |
| **CP** = Contributed Presentation Session | **MT** = Minitutorial |
| | **PP** = Poster Session |
| **IP** = Invited Plenary Speaker | **SP** = Special Lecture |
| **MS** = Minisymposium | |

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**Thank you to our FUNDING AGENCY**

NSF

# SIAM Activity Group on
# Linear Algebra (SIAG/LA)
## *www.siam.org/Activity-Groups/LA*

**SIAM**
Society for Industrial and
Applied Mathematics

# *A great way to get involved!*

Collaborate and interact with mathematicians and applied scientists whose work involves linear algebra and its applications.

## ACTIVITIES INCLUDE

- Triennial conference
- Triennial International Summer School on Numerical Linear Algebra (ISSNLA) for graduate students
- Special sessions at SIAM meetings
- SIAG/LA Early Career Prize
- SIAG/LA Best Paper Prize

## BENEFITS OF SIAG/LA MEMBERSHIP

- Listing in the SIAG's online membership directory
- Additional $15 discount on registration at the SIAM Conference on Applied Linear Algebra (excludes students)
- Subscription to SIAM Journal on Matrix Analysis and Applications and SIAM Journal on Numerical Analysis.
- Access to **SIAM Engage** online community for SIAG/LA
- Eligibility for candidacy for SIAG/LA office
- Participation in the selection of SIAG/LA officers

**siam Engage**

## ELIGIBILITY FOR SIAG/LA MEMBERSHIP

- Must be a current SIAM member
  (note that members of SMAI pay 30% less for their SIAM regular membership)

## COST

- $15 per year
- Outreach members can join one SIAM Activity Group for free and student members can join two for free!

## 2023–2024 SIAG/LA OFFICERS

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- Free membership in two specialized activity groups—networks of professionals within applied math and computational science that organize conferences and newsletters, award prizes, and often post job and fellowship opportunities in the SIAM Engage Online Community

- Student travel awards to SIAM conferences

- Student chapters — get involved or start one at your school

- Publish in *SIAM Undergraduate Research Online* (SIURO) — share research and experience the journal review process

- Free resources about career options in applied math and computational science at *siam.org/careers*

- Career advice in *SIAM News*

- Prizes to award excellence

- Participate in Gene Golub SIAM Summer School (G2S3)

"SIAM is important because professional organizations are vital in bringing up students and early career scientists. Making connections and providing a coherent and consistent community that meets throughout the year is an invaluable thing. Publishing is important too, so SIAM journals are an excellent venue for in-depth work."
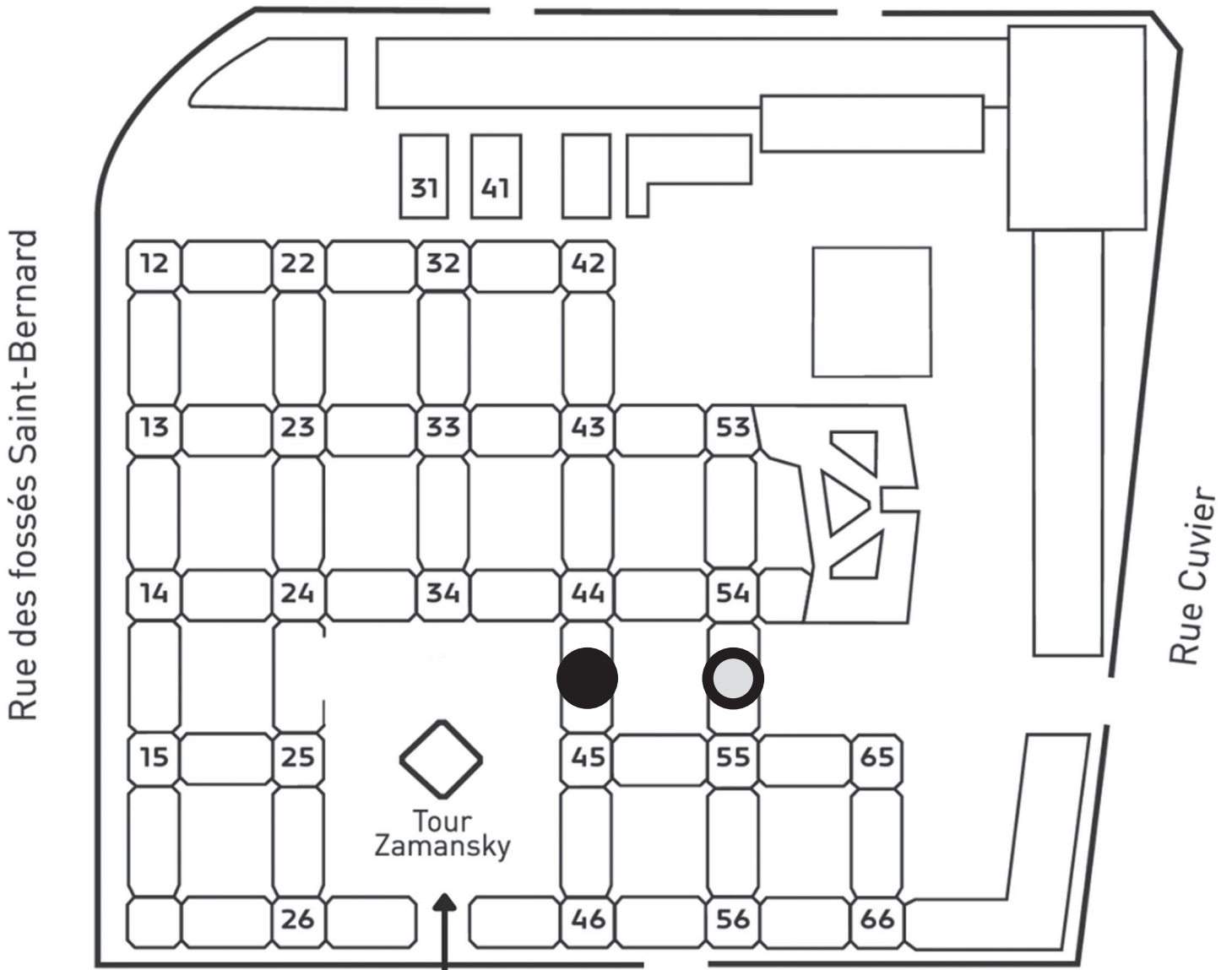
— Jed Brown, SIAM Member, University of Colorado

## Take advantage of SIAM programs, resources, and opportunities for involvement! Learn more: *siam.org/students*

**siam** | Society for Industrial and Applied Mathematics

# Sorbonne Université Building Map

Quai Saint-Bernard

Rue des fossés Saint-Bernard

Rue Cuvier

Tour Zamansky

**Entrance**

Rue Jussieu

(M) 7 ● (B) 67 89
Jussieu station

● Rooms 105 to 109        ◉ Auditorium