



Conference on Mathematics of Data Science

September 26–30, 2022 • Town and Country Resort, San Diego, California, U.S.

This conference is being held in hybrid format. In-person events will take place at the Town and Country Resort, San Diego, California, U.S.

Online Program and Mobile App

Attendees are encouraged to visit

<https://www.siam.org/conferences/cm/program/program-and-abstracts/mds22-program-abstracts>
to view the Online Program Schedule and Mobile App details.

The Mobile App and Online Program Schedule contain the most up-to-date information.
A searchable abstract document is also posted.



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<https://www.siam.org/conferences/cm/conference/mds22>

Sunday, September 25

Monday, September 26

Monday, September 26

4:00 p.m. - 8:00 p.m.

Badge Pick-Up and Information Desk
Town & Country Foyer

5:00 p.m. - 6:00 p.m.

Student Orientation
Pacific E

6:00 p.m. - 8:00 p.m.

Welcome Reception
Town & Country Foyer



Monday, September 26

7:00 a.m. - 2:45 p.m.

Badge Pick-Up and Information Desk
Town & Country Foyer

8:00 a.m. - 9:00 a.m.

IP1 Welcome Remarks and Presentation:
Learning to Optimize
Wotao Yin, Alibaba Group US/DAMO Academy,
U.S.
Golden State Ballroom

9:00 a.m. - 9:30 a.m.

Coffee Break
Town & Country Foyer



9:30 a.m. - 11:30 a.m.

Concurrent Sessions

MT1 Optimization for Data Analysis
Golden State Ballroom

MS1 Deep Learning and Optimal Control in Data
Space - Part I of II
Town & Country B

MS2 Randomized Algorithms in Linear Algebra -
Part I of II
Town & Country C

MS3 Deep Learning and Sparse Approximation for
High-Dimensional Problems in Data Science - Part
I of II
Town & Country D

MS4 New Data Assimilation Problems from
Emerging Applications - Part I of II
Pacific C

MS5 Optimal Transport for Data Science
Pacific D

MS6 Inverse Problems and Machine Learning - Part
I of II
Pacific E

MS7 Graphical Inference and Modeling in
Dynamical Systems
Pacific F

MS8 Data-Driven Analysis and Modeling of
Unsteady Flows - Part I of II
Pacific G

MS9 Financial Informatics: Information-Based
Asset Pricing and Beyond - Part I of II
Palm Room 1

MS10 Data-Driven Methods in Scientific
Computing - Part I of II
Palm Room 2

MS11 Interface of Statistics, Optimization and
Learning in Data Science - Part I of II
Palm Room 3

MS12 Computations and Optimal Control for
Biochemical System
Palm Room 4

MS13 Advances on Scientific Machine Learning -
Part I of II
Palm Room 5

MS14 Learning Dynamical Systems by Preserving
Symmetries, Energies, and Variational Principles -
Part I of II
Palm Room 6

MS15 From Theory to Practice in Private Data
Analysis - Part I of II
Pacific H

MS16 Scalable and Trustworthy Learning of
Complex Systems - Part I of II
Pacific I

MS17 Graphs and Neural Networks for Inverse
Problems in Imaging
Sunset 4

MS169 Broader Engagement (BE): Tutorial on Best
Practices and Tools For Secure Scientific Software
Development
Palm 7

CP1 Geometric Machine Learning

Sunset 1

CP2 Imaging Applications

Sunset 2

11:30 a.m. - 1:00 p.m.

Lunch Break (attendees on their own)

1:00 p.m. - 1:45 p.m.

IP2 Mathematics of Neural Networks in the Billion-
parameter Age
Joan Bruna, Courant Institute of Mathematical
Sciences, New York University, U.S.
Golden State Ballroom

1:45 p.m. - 2:15 p.m.

Coffee Break
Town & Country Foyer



2:15 p.m. - 4:15 p.m.

Concurrent Sessions

MT2 Broader Engagement (BE): Introduction to
Graph Neural Networks
Golden State Ballroom

MS18 Data-Driven, Physics-Informed Methods for
Computational Science - Part I of II
Town & Country B

MS19 Randomized Algorithms in Linear Algebra -
Part II of II
Town & Country C

MS20 Deep Learning and Sparse Approximation for
High-Dimensional Problems in Data Science - Part
II of II
Town & Country D

MS21 Inverse Problems in Industry: Recent
Advances in Modeling and Numerical Methods -
Part I of II
Pacific C

MS22 Symbolic Data Science: Low-Dimensional
Representation of Discrete Objects
Pacific D

MS23 Exploiting Low-Dimensional Structure in
PDE-Constrained Bayesian Inverse Problems - Part
I of II
Pacific E

MS24 Statistical Modeling and Uncertainty
Quantification for Atmospheric Remote Sensing
Pacific F

MS25 Data-Driven Analysis and Modeling of
Unsteady Flows - Part II of II
Pacific G

MS26 Integrating Data in Infectious Disease
Modeling
Palm Room 1

MS27 Data-Driven Methods in Scientific
Computing - Part II of II
Palm Room 2

MS28 Interface of Statistics, Optimization and
Learning in Data Science - Part II of II
Palm Room 3

MS29 Advances in Operator Splitting Methods for
Data Science - Part I of II
Palm Room 4

MS30 Advances on Scientific Machine Learning -
Part II of II
Palm Room 5

MS31 Learning Dynamical Systems by Preserving
Symmetries, Energies, and Variational Principles -
Part II of II
Palm Room 6

MS32 From Theory to Practice in Private Data
Analysis - Part II of II
Pacific H

MS33 Scalable and Trustworthy Learning of
Complex Systems - Part II of II
Pacific I

MS34 Advances in Unlabeled Sensing and Learning
from Unordered Data
Sunset 4

CP3 Dynamical Systems

Sunset 1

CP4 Reinforcement Learning

Sunset 2

Tuesday, September 27

Tuesday, September 27

Tuesday, September 27

7:45 a.m. - 2:45 p.m.

Badge Pick-Up and Information Desk
Town & Country Foyer

8:10 a.m. - 9:00 a.m.

IP3 Remarks and Presentation
Caroline Uhler, Massachusetts Institute of Technology, U.S.
Golden State Ballroom

9:00 a.m. - 9:30 a.m.

Coffee Break
Town & Country Foyer

9:30 a.m. - 11:30 a.m.

Concurrent Sessions

MT3 Broader Engagement (BE): Julia for Python Programmers
Golden State Ballroom

MS35 Deep Learning and Optimal Control in Data Space - Part II of II
Town & Country B

MS36 Tensor Decompositions for Data Science - Part I of II
Town & Country C

MS37 Deep Learning with Low-Dimensional Models - Part I of II
Town & Country D

MS38 New Data Assimilation Problems from Emerging Applications - Part II of II
Pacific C

MS39 Graphs, Geometry, PDEs, and Learning - Part I of II
Pacific D

MS40 Inverse Problems and Machine Learning - Part II of II
Pacific E

MS41 Industrial Applications of Machine Learning: Opportunities and Challenges in the Energy Sector - Part I of II
Pacific F

MS42 Approximation Methods in Data Science: Theory and Applications
Pacific G

MS43 Financial Informatics: Information-Based Asset Pricing and Beyond - Part II of II
Palm Room 1

MS44 Learning from Scarce Data - Part I of II
Palm Room 2

MS45 Recent Advances in Machine Learning and Optimization - Part I of II
Palm Room 3

MS46 Advances in Operator Splitting Methods for Data Science - Part II of II
Palm Room 4

MS47 Domain-Aware Scientific Reinforcement Learning
Palm Room 5

MS48 Scientific Machine Learning to Enable Outer Loop Analysis - Part I of II
Palm Room 6

MS49 Efficient Sampling: Normalizing Flows meet Stochastic Methods - Part I of II
Pacific H

MS50 Interpreting and Explaining Machine Learning Methods for Dynamical Systems - Part I of II
Pacific I

MS81 Provable Guarantees for Learning Dynamical Systems
Sunset 4

CP5 Optimization I
Sunset 1

CP6 PDE
Sunset 2

11:30 a.m. - 1:00 p.m.

Lunch Break (attendees on their own)

1:00 p.m. - 1:45 p.m.

IP4 A Mathematician's Perspective on How to Address Bias and Ethics in Data Science
Talitha Washington, Clark Atlanta University & Atlanta University Center, U.S.
Golden State Ballroom

1:45 p.m. - 2:15 p.m.

Coffee Break
Town & Country Foyer

2:15 p.m. - 4:15 p.m.

Concurrent Sessions

MT4 Broader Engagement (BE): Data Science with Julia
Golden State Ballroom

MS52 Data-Driven, Physics-Informed Methods for Computational Science - Part II of II
Town & Country B

MS53 Tensor Decompositions for Data Science - Part II of II
Town & Country C

MS54 Deep Learning with Low-Dimensional Models - Part II of II
Town & Country D

MS55 Inverse Problems in Industry: Recent Advances in Modeling and Numerical Methods - Part II of II
Pacific C

MS56 Graphs, Geometry, PDEs, and Learning - Part II of II
Pacific D

MS57 Exploiting Low-Dimensional Structure in PDE-Constrained Bayesian Inverse Problems - Part II of II
Pacific E

MS58 Industrial Applications of Machine Learning: Opportunities and Challenges in the Energy Sector - Part II of II
Pacific F

MS59 Scientific Machine Learning for Reduced Order Modelling and Uncertainty Quantification
Pacific G

MS60 Factorization Strategies for Bioinformatics Datasets
Palm Room 1

MS61 Learning from Scarce Data - Part II of II
Palm Room 2

MS62 Recent Advances in Machine Learning and Optimization - Part II of II
Palm Room 3

MS63 Advances in Geometric and Topological Methods for Data Science
Palm Room 4

MS64 Theoretical Foundations of Reinforcement Learning
Palm Room 5

MS65 Scientific Machine Learning to Enable Outer Loop Analysis - Part II of II
Palm Room 6

MS66 Efficient Sampling: Normalizing Flows meet Stochastic Methods - Part II of II
Pacific H

MS67 Interpreting and Explaining Machine Learning Methods for Dynamical Systems - Part II of II
Pacific I

MS68 Mathematics of Sum-of-Norms Clustering
Sunset 4

CP7 Optimization II
Sunset 1

CP8 Uncertainty Quantification
Sunset 2

4:15 p.m. - 4:30 p.m.

Intermission

4:30 p.m. - 5:30 p.m.

PD1 Industry Panel
Golden State Ballroom

Wednesday, September 28

7:45 a.m. - 2:45 p.m.

Badge Pick-Up and Information Desk
Town & Country Foyer

8:10 a.m. - 9:00 a.m.

IP5 Remarks and Presentation
Jon M. Kleinberg, Cornell University, U.S.
Golden State Ballroom

9:00 a.m. - 9:30 a.m.

Coffee Break
Town & Country Foyer

9:30 a.m. - 11:30 a.m.

Concurrent Sessions

MT5 Geometric Deep Learning
Golden State Ballroom

Wednesday, September 28

Wednesday, September 28

Wednesday, September 28

MS69 Optimal Control and PDE Insights into Deep Learning - Part I of II

Town & Country B

MS70 Tensor Methods in Mathematics of Data Science

Town & Country C

MS71 Mathematical Theories of Deep Learning for PDEs in Scientific Computing

Town & Country D

MS72 Integration of Model- and Data-Driven Methods with Applications in Imaging - Part I of II

Pacific C

MS73 Geometry of Data: From Manifolds to Graphs - Part I of II

Pacific D

MS74 Machine Learning in Inverse Problems

Pacific E

MS75 Algebraic Geometry and Machine Learning - Part I of II

Pacific F

MS76 Geometric Distances and Robust Data Analysis - Part I of II

Pacific G

MS77 Methods and Applications in Financial Data Analysis - Part I of II

Palm Room 1

MS78 Machine Learning and Data-Driven Methods for Forward and Inverse Problems- Part I of II

Palm Room 2

MS79 Algorithm Unrolling: Bridging the Gap between Theory and Practice - Part I of II

Palm Room 3

MS80 Sampling Algorithms from An Optimization Perspective

Palm Room 4

MS82 Machine Learning Methods for Modeling and Uncertainty Quantification of PDE-Based Problems - Part I of II

Palm Room 6

MS83 Numerical and Statistical Approaches to Identification of Differential Equations - Part I of II

Pacific H

MS84 Probability-Based Machine Learning for Small Data Applications in Complex Systems Analysis - Part I of II

Pacific I

MS85 Recent Advances in Kernel Methods for Computing and Learning - Part I of II

Sunset 4

MS116 Broader Engagement (BE): Fundamentals of Accelerated Data Science with RAPIDS - Part I of II

Palm Room 7

MS151 Working with Graphs: from Learning to Visualization and Sketching

Palm Room 5

CP9 Applications I

Sunset 1

CP10 Finance Applications

Sunset 2

11:30 a.m. - 1:00 p.m.

Lunch Break (attendees on their own)

11:40 a.m. - 12:50 p.m.

PD2 Student Career Panel Discussion and Lunch (ticketed event)

Golden State Ballroom



1:00 p.m. - 1:45 p.m.

IP6 Stein's Method, Learning, and Inference
Lester Mackey, Microsoft Research New England, U.S.

Golden State Ballroom

1:45 p.m. - 2:15 p.m.

Coffee Break

Town & Country Foyer



2:15 p.m. - 4:15 p.m.

Concurrent Sessions

MT6 Inverse Problems: Integrating Data with PDE-based Models under Uncertainty

Golden State Ballroom

MS86 Optimal Control and PDE Insights into Deep Learning - Part II of II

Town & Country B

MS87 Non-Convex Methods for Matrix and Tensor Problems with Application to Data Science

Town & Country C

MS88 Robustness in Deep Learning

Town & Country D

MS89 Integration of Model- and Data-Driven Methods with Applications in Imaging - Part II of II

Pacific C

MS90 Geometry of Data: From Manifolds to Graphs - Part II of II

Pacific D

MS91 Data-Driven and Data-Consistent Approaches for Solving Inverse Problems - Part I of II

Pacific E

MS92 Algebraic Geometry and Machine Learning - Part II of II

Pacific F

MS93 Geometric Distances and Robust Data Analysis - Part II of II

Pacific G

MS94 Methods and Applications in Financial Data Analysis - Part II of II

Palm Room 1

MS95 Machine Learning and Data-Driven Methods for Forward and Inverse Problems- Part II of II

Palm Room 2

MS96 Mathematical Optimization in Data Science - Part I of II

Palm Room 3

MS97 Statistics and Machine Learning in Topological and Geometric Data Analysis - Part I of II

Palm Room 4

MS98 Machine Learning in Numerical PDEs and Their Applications

Palm Room 5

MS99 Machine Learning Methods for Modeling and Uncertainty Quantification of PDE-Based Problems - Part II of II

Palm Room 6

MS100 Numerical and Statistical Approaches to Identification of Differential Equations - Part II of II

Pacific H

MS101 Probability-Based Machine Learning for Small Data Applications in Complex Systems Analysis - Part II of II

Pacific I

MS102 Recent Advances in Kernel Methods for Computing and Learning - Part II of II

Sunset 4

MS132 Broader Engagement (BE): Fundamentals of Accelerated Data Science with RAPIDS - Part II of II

Palm Room 7

CP11 Applications II

Sunset 1

CP12 Algorithms

Sunset 2

4:15 p.m. - 4:30 p.m.

Intermission

4:30 p.m. - 6:30 p.m.

PP1 Poster Session and Reception

Golden State Ballroom



Thursday, September 29

7:45 a.m. - 2:45 p.m.

Badge Pick-Up and Information Desk

Town & Country Foyer

8:10 a.m. - 9:00 a.m.

IP7 Remarks and Presentation: Topological Methods to Analyze Complex Prediction Functions
David F. Gleich, Purdue University, U.S.

Golden State Ballroom

9:00 a.m. - 9:30 a.m.

Coffee Break

Town & Country Foyer



9:00 a.m. - 11:30 a.m.

Career Fair Session I

Town & Country B

9:30 a.m. - 11:30 a.m.

Concurrent Sessions

MT7 Computational Optimal Transport

Golden State Ballroom

Thursday, September 29

Thursday, September 29

Thursday, September 29

MS103 Tensor Methods and Applications to Real-World Data - Part I of II

Town & Country C

MS104 Algorithms of Deep Learning for PDEs in Scientific Computing - Part I of II

Town & Country D

MS105 Algorithmic Advances in Imaging Inverse Problems - Part I of II

Pacific C

MS106 Dynamics, Geometry, and Data - Part I of II

Pacific D

MS107 Machine Learning Techniques for Inverse and Optimization Problems Governed by High Dimensional Differential Equations

Pacific E

MS108 Advances in Learning for Graphs, Manifolds, and Geometric Data - Part I of II

Pacific F

MS109 Recent Advances in Data-Driven Model Reduction - Part I of II

Pacific G

MS110 Parameter Inference and Uncertainty Quantification for Systems Biology and Medicine - Part I of II

Palm Room 1

MS111 Machine Learning for Large-Scale Scientific Data Analytics - Part I of II

Palm Room 2

MS112 Algorithm Unrolling: Bridging the Gap between Theory and Practice - Part II of II

Palm Room 3

MS113 Statistics and Machine Learning in Topological and Geometric Data Analysis - Part II of II

Palm Room 4

MS114 Machine Learning for Finite Element Analysis - Part I of II

Palm Room 5

MS115 Machine Learning in Heterogeneous Material Modeling and Design - Part I of II

Palm Room 6

MS117 Implicit Bias and Regularization in Overparameterized Neural Networks - Part I of II

Pacific I

MS118 Scalable Methods for Gaussian Process Modeling

Sunset 4

MS170 Broader Engagement (BE): Tutorial Hands On HPC Crash Course - Part I of II

Palm Room 7

CP13 Inverse Problems

Sunset 1

CP14 Machine Learning I

Sunset 2

11:30 a.m. - 1:00 p.m.

Lunch Break (attendees on their own)

1:00 p.m. - 1:45 p.m.

SP1 SIAM Activity Group on Data Science Early Career Prize - When Will You Become the Best Reviewer of Your Own Papers? A Mechanism-Design-Based Approach to Estimation
Weijie Su, University of Pennsylvania, U.S.
Golden State Ballroom

1:45 p.m. - 2:15 p.m.

Coffee Break
Town & Country Foyer



1:45 p.m. - 4:15 p.m.

Career Fair Session II
Town & Country B

2:15 p.m. - 4:15 p.m.

Concurrent Sessions

MT8 Tensor Decompositions: A Quick Tour of Illustrative Applications
Golden State Ballroom

MS51 Higher-Order Network Analysis
Sunset 4

MS119 Tensor Methods and Applications to Real-World Data - Part II of II

Town & Country C

MS120 Algorithms of Deep Learning for PDEs in Scientific Computing - Part II of II

Town & Country D

MS121 Algorithmic Advances in Imaging Inverse Problems - Part II of II

Pacific C

MS122 Dynamics, Geometry, and Data - Part II of II

Pacific D

MS123 Data-Driven and Data-Consistent Approaches for Solving Inverse Problems - Part II of II

Pacific E

MS124 Advances in Learning for Graphs, Manifolds, and Geometric Data - Part II of II

Pacific F

MS125 Recent Advances in Data-Driven Model Reduction - Part II of II

Pacific G

MS126 Parameter Inference and Uncertainty Quantification for Systems Biology and Medicine - Part II of II

Palm Room 1

MS127 Machine Learning for Large-Scale Scientific Data Analytics - Part II of II

Palm Room 2

MS128 Mathematical Optimization in Data Science - Part II of II

Palm Room 3

MS129 Topological Data Analysis with Mapper - Part I of II

Palm Room 4

MS130 Machine Learning for Finite Element Analysis - Part II of II

Palm Room 5

MS131 Machine Learning in Heterogeneous Material Modeling and Design - Part II of II

Palm Room 6

MS133 Implicit Bias and Regularization in Overparameterized Neural Networks - Part II of II

Pacific I

MS171 Broader Engagement (BE): Tutorial Hands On HPC Crash Course - Part II of II

Palm Room 7

CP15 Optimization III

Sunset 1

CP16 Machine Learning II

Sunset 2

4:15 p.m. - 4:30 p.m.

Intermission

4:30 p.m. - 5:30 p.m.

PD3 Funding Panel
Golden State Ballroom

5:30 p.m. - 6:30 p.m.

SIAG/DATA Business Meeting
Golden State Ballroom



7:00 p.m. - 10:00 p.m.

SIMODS Editorial Board Meeting
California 1

Friday, September 30

7:45 a.m. - 2:45 p.m.

Badge Pick-Up and Information Desk
Town & Country Foyer

8:15 a.m. - 9:00 a.m.

IP8 Geospatial Technologies for Ride-Sharing and Delivery Platforms

Dawn Woodard, LinkedIn, U.S.

Golden State Ballroom

9:00 a.m. - 9:30 a.m.

Coffee Break
Town & Country Foyer



9:30 a.m. - 11:30 a.m.

Concurrent Sessions

MS134 Tensor Methods for Network Data Science
Golden State Ballroom

MS135 Differential Equation Techniques in Machine Learning - Part I of II

Town & Country B

Friday, September 29

Friday, September 29

Friday, September 29

MS136 Randomized Methods in Large-Scale Inference and Data Problems - Part I of II
Town & Country C

MS137 Recent Advances of Deep Learning in Physical Sciences and Engineering - Part I of II
Town & Country D

MS138 Frontiers in Monte Carlo Methods for Physics - Part I of II
Pacific C

MS139 The Role of Data Geometry in High-Dimensional Learning - Part I of II
Pacific D

MS140 Advances in Fast and Scalable Bayesian Inference - Part I of II
Pacific E

MS141 Graph-Based Methods in Low-label Rate Machine Learning - Part I of II
Pacific F

MS142 Optimal Transport, Manifold Learning, and Dimensionality Reduction - Part I of II
Pacific G

MS143 Tree Based Inference is a Great Showcase for Datascience
Palm Room 1

MS144 Transfer Learning and Multi-Fidelity Approaches to Alleviate Data Sparsity in Machine Learning - Part I of II
Palm Room 2

MS145 Advances in Learning to Optimize and Optimizing to Learn
Palm Room 3

MS146 Exploiting Hamiltonian Structure in Learning Dynamical System Models for Prediction and Control
Palm Room 4

MS147 Combining Machine Learning Algorithms with Domain Decomposition and Multilevel Methods - Part I of II
Palm Room 5

MS148 Scientific Machine Learning and Its Applications for PDE-Based Problems - Part I of II
Palm Room 6

MS149 Broader Engagement (BE): Lightning Talks
Pacific H

MS150 Mathematics of Interpretable Machine Learning - Part I of II
Pacific I

MS172 Broader Engagement (BE): Guided Affinity Group Presentations and Wrap Up
Palm Room 7

CP17 Network Science
Sunset 1

CP18 Neural ODE
Sunset 2

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11:30 a.m. - 1:00 p.m.

Lunch Break (attendees on their own)

1:00 p.m. - 2:00 p.m.
IP9 Closing Remarks and Presentation: Supervised Learning In Function Space
Andrew Stuart, California Institute of Technology, U.S.
Golden State Ballroom

2:00 p.m. - 2:30 p.m.

Coffee Break
Town & Country Foyer



2:30 p.m. - 4:30 p.m.

Concurrent Sessions

MS152 Differential Equation Techniques in Machine Learning - Part II of II
Town & Country B

MS153 Randomized Methods in Large-Scale Inference and Data Problems - Part II of II
Town & Country C

MS154 Recent Advances of Deep Learning in Physical Sciences and Engineering - Part II of II
Town & Country D

MS155 Frontiers in Monte Carlo Methods for Physics - Part II of II
Pacific C

MS156 The Role of Data Geometry in High-Dimensional Learning - Part II of II
Pacific D

MS157 Advances in Fast and Scalable Bayesian Inference - Part II of II
Pacific E

MS158 Graph-Based Methods in Low-label Rate Machine Learning - Part II of II
Pacific F

MS159 Optimal Transport, Manifold Learning, and Dimensionality Reduction - Part II of II
Pacific G

MS160 Scalable Algorithms with Application to COVID-19
Palm Room 1

MS161 Transfer Learning and Multi-Fidelity Approaches to Alleviate Data Sparsity in Machine Learning - Part II of II
Palm Room 2

MS162 Multilevel and Accelerated Optimization Methods for Machine Learning
Palm Room 3

MS163 Topological Data Analysis with Mapper - Part II of II
Palm Room 4

MS164 Combining Machine Learning Algorithms with Domain Decomposition and Multilevel Methods - Part II of II
Palm Room 5

MS165 Scientific Machine Learning and Its Applications for PDE-Based Problems - Part II of II
Palm Room 6

MS166 Diffusion-Based Methods for High Dimensional Data Analysis
Pacific H

MS167 Mathematics of Interpretable Machine Learning - Part II of II
Pacific I

MS168 Multilinear Algebra and Tensors for Data Science
Sunset 4

CP19 Linear Algebra
Sunset 1

CP20 Machine Learning III
Sunset 2

This conference is in hybrid format

Times listed are Pacific Daylight Time (UTC-7).

All technical sessions and the business meeting will be accessible to both In-Person and Virtual registrants. Other events are for In-Person registrants.

Unless otherwise noted, MS presentations are 25 minutes plus an additional 5 minutes for discussion.

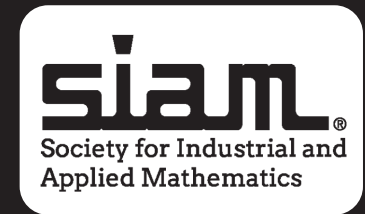
CP presentations are 15 minutes plus an additional 5 minutes for discussion.

Key to abbreviations and symbols

	= Business Meeting
	= Coffee Break
	= Refreshments Served
	= Poster Session (PP)
	= Luncheon
CP	= Contributed Presentation Session
IP	= Invited Plenary Speaker
MS	= Minisymposium
MT	= Minitutorial
PD	= Panel Discussion
SP	= Special Lecture

SIAM Activity Group on Data Science (SIAG/DATA)

www.siam.org/activity/data



A great way to get involved!

The purpose of this activity group is to advance the mathematical, statistical and computational foundations of data science, and to pursue applications of data science to other fields of science and across technology and society.

ACTIVITIES INCLUDE

- Biennial conferences
- Special sessions at SIAM Meetings



BENEFITS OF SIAG/DATA MEMBERSHIP

- Membership in SIAG/DATA's **SIAM Engage** online community
- Additional \$15 discount on registration for the SIAM Conference on Mathematics of Data Science (excludes student)
- Electronic communications about recent developments in your specialty
- Eligibility for candidacy for SIAG/DATA office
- Participation in the selection of SIAG/ED officers

ELIGIBILITY

- Be a current SIAM member

COST

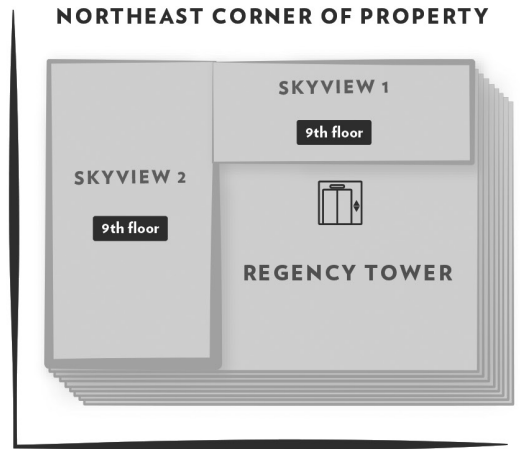
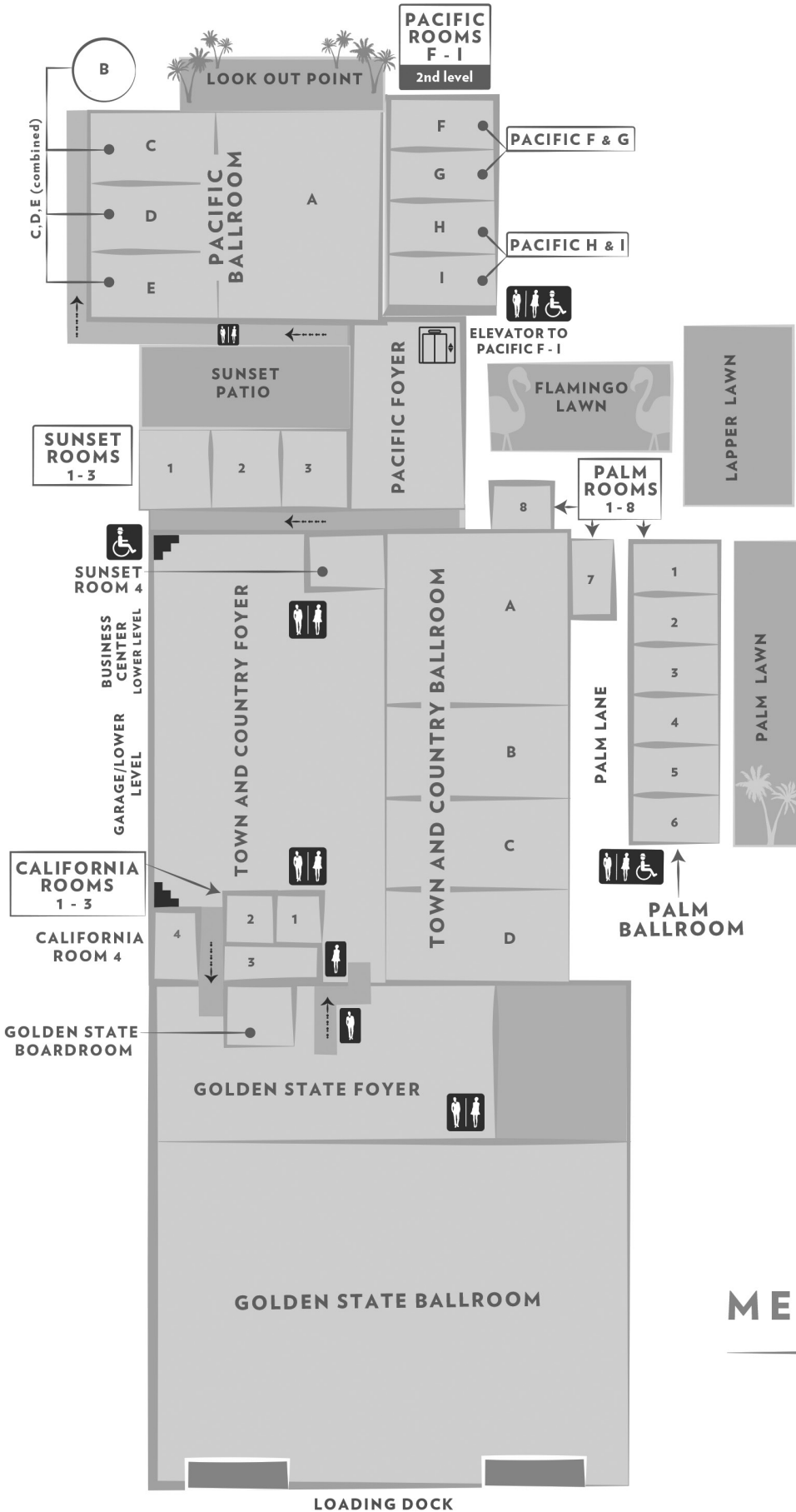
- \$15 per year
- Student members can join two activity groups for free!

2022–2023 SIAG/DATA OFFICERS

Chair: **Ilse Ipsen**, *North Carolina State University*
Vice Chair: **Lars Ruthotto**, *Emory University*
Program Director: **David Gleich**, *Purdue University*
Secretary: **Stephanie Guenther**, *Lawrence Livermore National Lab*

To join: my.siam.org

Town and Country Resort • Floor Plans



W N E S

- ACCESSIBLE RESTROOM (wheelchair icon)
- RESTROOM (man/woman icons)
- ELEVATOR (elevator icon)
- ADA PARKING (wheelchair icon)
- HALLWAY (dashed arrow icon)
- STAIRCASE (staircase icon)

MEETING & EVENT SPACE

