

At A Glance

SIAM Conference on
**UNCERTAINTY
QUANTIFICATION**

April 5-8, 2016
SwissTech Convention Center
EPFL Campus
Lausanne, Switzerland



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UQ16 Program-at-a-Glance

A Quick Guide to the 2016 SIAM Conference on Uncertainty Quantification

**Monday,
April 4**

3:00 PM - 6:00 PM

Registration

"Campus" Area, 1st Floor

**Tuesday,
April 5**

7:00 AM - 6:40 PM

Registration

"Campus" Area, 1st Floor

8:20 AM - 8:35 AM

Opening Remarks and Welcome Address by
Andreas Mortensen, EPFL, Vice Provost for
Research

Auditorium A

8:35 AM - 9:20 AM

IP1 Prediction, State Estimation, and Uncertainty
Quantification for Complex Turbulent Systems
Andrew Majda, Courant Institute of Mathematical
Sciences, New York University, USA

Auditorium A

9:25 AM - 10:10 AM

IP2 Sparse Grid Methods in Uncertainty
Quantification

Michael Griebel, Institut für Numerische
Simulation, Universität Bonn and Fraunhofer-
Institut für Algorithmen und Wissenschaftlich,
Germany

Auditorium A

10:10 AM - 10:40 AM

Coffee Break

"Campus" Area, 1st Floor



10:40 AM - 12:40 PM

Concurrent Sessions

MT1 Computer Model Emulators and Rare Event
Simulations

Auditorium A

MS1 Matrix Approximation Methods for Large-
scale Problems in Data Analysis

Garden 1A

MS2 Uncertainty Quantification for Climate
Modeling - Part I of III

Garden 1B

MS3 Uncertainty Quantification for Hyperbolic
and Kinetic Equations - Part I of II

Garden 1C

MS4 Some Recent Advances for Designs Of
Experiments

Garden 2A

MS5 Large-Scale PDE-constrained Bayesian
Inverse Problems - Part I of III

Garden 2B

MS6 Uncertainty Quantification for Direct and
Inverse Problems in Biomedical Applications -
Part I of III

Garden 2C

MS7 Inverse Problems and Uncertainty
Quantification - Part I of II

Garden 3A

MS8 UQ in Turbulence Modelling - Part I of III
Garden 3B

**Tuesday,
April 5**

MS9 Data Assimilation and Uncertainty
Quantification - Part I of II

Garden 3C

MS10 Inverse Problems and Uncertainty

Quantification in Subsurface Applications - Part I
of II

Garden 4A

MS11 Advances in Statistical Design and Scalable
Polynomial Approximation of Stochastic Systems
- Part I of II

Garden 4B

MS12 Theoretical and Computational Advances in
Collocation Approximations for High-Dimensional
Problems - Part I of II

Garden 4C

MS13 Reduced Order Modelling for UQ
PDEs Problems: Optimization, Control, Data
Assimilation - Part I of II

Garden 5A

MS14 Fast Solvers and Efficient Linear Algebra
for Parameter-dependent PDEs - Part I of II

Garden 5B

MS15 PDE Constrained Optimization with
Uncertain Data - Part I of II

Garden 5C

12:40 PM - 2:10 PM

Lunch Break

Attendees on their own

2:10 PM - 4:10 PM

Concurrent Sessions

MT2 The Worst Case Approach to Uncertainty
Quantification

Auditorium A

MS16 Computational Challenges for Gaussian
Processes

Garden 1A

MS17 Uncertainty Quantification for Climate
Modeling - Part II of III

Garden 1B

MS18 Uncertainty Quantification for Hyperbolic
and Kinetic Equations - Part II of II

Garden 1C

MS19 Sequential Design of Computer
Experiments

Garden 2A

MS20 Large-Scale PDE-constrained Bayesian
Inverse Problems - Part II of III

Garden 2B

MS21 Uncertainty Quantification for Direct and
Inverse Problems in Biomedical Applications -
Part II of III

Garden 2C

MS22 Inverse Problems and Uncertainty
Quantification - Part II of II

Garden 3A

MS23 UQ in Turbulence Modelling - Part II of III
Garden 3B

Tuesday, April 5

MS24 Data Assimilation and Uncertainty Quantification - Part II of II
Garden 3C

MS25 Inverse Problems and Uncertainty Quantification in Subsurface Applications - Part II of II
Garden 4A

MS26 Advances in Statistical Design and Scalable Polynomial Approximation of Stochastic Systems - Part II of II
Garden 4B

MS27 Theoretical and Computational Advances in Collocation Approximations for High-Dimensional Problems - Part II of II
Garden 4C

MS28 Reduced Order Modelling for UQ PDEs Problems: Optimization, Control, Data Assimilation - Part II of II
Garden 5A

MS29 Fast Solvers and Efficient Linear Algebra for Parameter-dependent PDEs - Part II of II
Garden 5B

MS30 PDE Constrained Optimization with Uncertain Data - Part II of II
Garden 5C

4:10 PM - 4:30 PM

Coffee Break
"Campus" Area, 1st Floor



4:30 PM - 5:50 PM

Concurrent Sessions

CP1 Solving Intrusive Polynomial Chaos Problems
Garden 1A

CP2 UQ in Life Science
Garden 1B

CP3 Surrogate Models
Garden 1C

CP4 Cross Validation and Computer Experimental Design – SESSION CANCELLED

CP5 Sensitivity Analysis
Garden 2B

CP6 Sampling and Bayesian Inference
Garden 2C

CP7 Generalized Polynomial Chaos
Garden 3A

CP8 Inverse Problems and Confidence Bounds
Garden 3B

CP9 Inverse Problems and UQ in Electromagnetics
Garden 3C

CP10 UQ in Applications
Garden 4A

CP11 UQ in Electronic Applications
Garden 4B

CP12 Kriging, Stochastic Methods and Data Analysis
Garden 4C

CP13 UQ and Optimization Methods in Material Science
Garden 5A

CP14 UQ in Fluid Applications
Garden 5B

CP15 UQ in Environment, Smart Grids, Economics
Garden 5C

5:55 PM - 6:40 PM

Poster Blitz
Auditorium A



6:40 PM - 8:00 PM

PP1 Poster Session and Welcome Reception

PP101 Minisymposium: Active Subspaces

PP102 Minisymposium: UQ Software for Science and Engineering Practitioners
"Campus" Area, 1st Floor



Wednesday, April 6

7:30 AM - 6:40 PM

Registration
"Campus" Area, 1st Floor

8:35 AM - 10:35 AM

Concurrent Sessions

MT3 High Dimensional Approximation of Parametric PDE's
Auditorium A

MS31 Low Rank and Sparse Structure in Large-scale Bayesian Computation - Part I of III
Garden 1A

MS32 Uncertainty Quantification for Climate Modeling - Part III of III
Garden 1B

MS33 Computational Uncertainty Quantification of Hyperbolic Problems - Part I of II
Garden 1C

MS34 Advances in Computationally Intensive Inference - Part I of III
Garden 2A

MS35 Large-Scale PDE-constrained Bayesian Inverse Problems - Part III of III
Garden 2B

MS36 Uncertainty Quantification for Direct and Inverse Problems in Biomedical Applications - Part III of III
Garden 2C

MS37 Analysis and Uncertainty Quantification of Spatio-temporal Data - Part I of III
Garden 3A

MS38 UQ in Turbulence Modelling - Part III of III
Garden 3B

MS39 Variability and Reliability in Electronic Engineering Applications
Garden 3C

MS40 Uncertainty Quantification in Subsurface Environments - Part I of III
Garden 4A

MS41 Software for UQ - Part I of III
Garden 4B

MS42 Sparse Techniques for High-dimensional UQ Problems and Applications - Part I of III
Garden 4C

MS43 PDF Methods for Uncertainty Quantification
Garden 5A

MS44 The Interplay of Dynamical Systems, Control Theory, and Uncertainty Quantification
Garden 5B

MS45 UQ and Numerical Methods for Stochastic (P)DEs
Garden 5C

10:35 AM - 11:05 AM

Coffee Break
"Campus" Area, 1st Floor



11:05 AM - 11:50 AM

IP3 Covariance Functions for Space-time Processes and Computer Experiments: Some Commonalities and Some Differences
Michael Stein, University of Chicago, USA
Auditorium A

Key to abbreviations and symbols



= Business Meeting



= Coffee Break



= Poster Session



= Refreshments Served

IP

= Invited Plenary Speaker

CP

= Contributed Presentation

MS

= Minisymposium

*

= Extended Session

Wednesday, April 6

11:55 AM - 12:40 PM

IP4 Reduction of Epistemic Uncertainty in Multifidelity Simulation-Based Multidisciplinary Design

Wei Chen, Northwestern University, USA
Auditorium A

12:40 PM - 2:10 PM

Lunch Break

Attendees on their own

2:10 PM - 4:10 PM

Concurrent Sessions

MT4 Particle and Ensemble Kalman Filters for Data Assimilation and Time Series Analysis
Auditorium A

MS46 Low Rank and Sparse Structure in Large-scale Bayesian Computation - Part II of III
Garden 1A

MS47 Bayesian Inverse Problems Beyond the 'Conventional' Setting - Part I of II
Garden 1B

MS48 Computational Uncertainty Quantification of Hyperbolic Problems - Part II of II
Garden 1C

MS49 Advances in Computationally Intensive Inference - Part II of III
Garden 2A

MS50 Quantifying and Accounting for Uncertainties in Large Scale (Atmospheric and Oceanic) Models - Part I of II
Garden 2B

MS51 Bayesian Inversion and Low-rank Approximation - Part I of II
Garden 2C

MS52 Analysis and Uncertainty Quantification of Spatio-temporal Data - Part II of III
Garden 3A

MS53 Uncertainty Management for Robust Industrial Design in Aeronautics - Part I of II
Garden 3B

MS54 Uncertainty Quantification of Systems Exhibiting Intermittent Dynamics - Part I of II
Garden 3C

MS55 Uncertainty Quantification in Subsurface Environments - Part II of III
Garden 4A

MS56 Software for UQ - Part II of III
Garden 4B

MS57 Sparse Techniques for High-dimensional UQ Problems and Applications - Part II of III
Garden 4C

MS58 Scalable Multi-fidelity Methods in Uncertainty Quantification - Part I of II
Garden 5A

MS59 Theory and Simulation of Failure Probabilities and Rare Events - Part I of II
Garden 5B

MS60 Analysis and Algorithms for High and Infinite Dimensional Problems - Part I of III
Garden 5C

Wednesday, April 6

4:10 PM - 4:40 PM

Coffee Break

"Campus" Area, 1st Floor



4:40 PM - 6:40 PM

Concurrent Sessions

MS61 Visualization in Computer Experiments
Auditorium A

MS62 Low Rank and Sparse Structure in Large-scale Bayesian Computation - Part III of III
Garden 1A

MS63 Bayesian Inverse Problems Beyond the 'Conventional' Setting - Part II of II
Garden 1B

MS64 Data Driven Dynamical Systems - Part I of II
Garden 1C

MS65 Advances in Computationally Intensive Inference - Part III of III
Garden 2A

MS66 Quantifying and Accounting for Uncertainties in Large Scale (Atmospheric and Oceanic) Models - Part II of II
Garden 2B

***MS67** Bayesian Inversion and Low-rank Approximation - Part II of II
Garden 2C

MS68 Analysis and Uncertainty Quantification of Spatio-temporal Data - Part III of III
Garden 3A

MS69 Uncertainty Management for Robust Industrial Design in Aeronautics - Part II of II
Garden 3B

***MS70** Uncertainty Quantification of Systems Exhibiting Intermittent Dynamics - Part II of II
Garden 3C

MS71 Uncertainty Quantification in Subsurface Environments - Part III of III
Garden 4A

MS72 Software for UQ - Part III of III
Garden 4B

MS73 Sparse Techniques for High-dimensional UQ Problems and Applications - Part III of III
Garden 4C

MS74 Scalable Multi-fidelity Methods in Uncertainty Quantification - Part II of II
Garden 5A

MS75 Theory and Simulation of Failure Probabilities and Rare Events - Part II of II
Garden 5B

MS76 Analysis and Algorithms for High and Infinite Dimensional Problems - Part II of III
Garden 5C

7:15 PM - 8:00 PM

SIAG/UQ Business Meeting
Auditorium A



Thursday, April 7

7:30 AM - 6:40 PM

Registration

"Campus" Area, 1st Floor

8:35 AM - 10:35 AM

Concurrent Sessions

MT5 Introduction to Quasi-Monte Carlo Methods -- with Application to PDEs with Random Coefficients
Auditorium A

MS77 Characterizing the Effects of Data Variability and Uncertainty on Simulation Based Geophysical Hazards Analyses - Part I of III
Garden 1A

MS78 Inverse Problems Meet Big Data
Garden 1B

MS79 Data Driven Dynamical Systems - Part II of II
Garden 1C

MS80 Design of Computer Experiments and Sequential Strategies with Gaussian Process Models - Part I of III
Garden 2A

MS81 Perspectives on Model-informed Data Assimilation - Part I of II
Garden 2B

MS82 Low-rank and Sparse Tensor Methods for Uncertainty Quantification
Garden 2C

MS83 Advances in Sampling Methods for Bayesian Inverse Problems - Part I of III
Garden 3A

MS84 Uncertainty Quantification for Complex Physical Models - Part I of III
Garden 3B

MS85 Uncertainty Quantification and Inversion of Multiphysics and Multiscale Problems - Part I of III
Garden 3C

MS86 Hierarchical and Multi-scale Methods for Uncertainty Quantification in Forward and Inverse Problems - Part I of II
Garden 4A

MS87 Mathematical Advances in High-dimensional Approximation and Integration - Part I of III
Garden 4B

MS88 Stochastic Optimization for Engineering Applications - Part I of III
Garden 4C

MS89 Reduced-order Modeling in Uncertainty Quantification - Part I of III
Garden 5A

MS90 Rare Event Study for Stochastic Dynamical System and Random Field - Part I of III
Garden 5B

MS91 Software for Uncertainty Quantification
Garden 5C

**Thursday,
April 7**

**Thursday,
April 7**

**Thursday,
April 7**

10:35 AM - 11:05 AM

Coffee Break

"Campus" Area, 1st Floor



11:05 AM - 11:50 AM

IP5 Multi-fidelity Approaches to UQ for PDEs
Max Gunzburger, Florida State University, USA
Auditorium A

11:55 AM - 12:40 PM

IP6 Uncertainty Quantification in Weather Forecasting
Tilmann Gneiting, Heidelberg Institute for Theoretical Studies and Karlsruhe Institute of Technology, Germany
Auditorium A

12:40 PM - 2:10 PM

Lunch Break

Attendees on their own

2:10 PM - 4:10 PM

Concurrent Sessions

MT6 High-Dimensional Statistics
Auditorium A

MS92 Characterizing the Effects of Data Variability and Uncertainty on Simulation Based Geophysical Hazards Analyses - Part II of III
Garden 1A

MS93 Model Error Assessment in Computational Physical Models - Part I of II
Garden 1B

MS94 Multi Level and Multi Index Sampling Methods and Applications - Part I of III
Garden 1C

MS95 Design of Computer Experiments and Sequential Strategies with Gaussian Process Models - Part II of III
Garden 2A

MS96 Perspectives on Model-informed Data Assimilation - Part II of II
Garden 2B

MS97 Low-rank Tensor Approximations for High-dimensional UQ Problems - Part I of II
Garden 2C

MS98 Advances in Sampling Methods for Bayesian Inverse Problems - Part II of III
Garden 3A

MS99 Uncertainty Quantification for Complex Physical Models - Part II of III
Garden 3B

MS100 Uncertainty Quantification and Inversion of Multiphysics and Multiscale Problems - Part II of III
Garden 3C

MS101 Hierarchical and Multi-scale Methods for Uncertainty Quantification in Forward and Inverse Problems - Part II of II
Garden 4A

MS102 Mathematical Advances in High-dimensional Approximation and Integration - Part II of III
Garden 4B

MS103 Stochastic Optimization for Engineering Applications - Part II of III
Garden 4C

MS104 Reduced-order Modeling in Uncertainty Quantification - Part II of III
Garden 5A

MS105 Rare Event Study for Stochastic Dynamical System and Random Field - Part II of III
Garden 5B

MS106 Towards a Unifying Probabilistic Framework for Scientific Computations Under Uncertainty - Part I of II
Garden 5C

4:10 PM - 4:40 PM

Coffee Break

"Campus" Area, 1st Floor



4:40 PM - 6:40 PM

Concurrent Sessions

MS107 Characterizing the Effects of Data Variability and Uncertainty on Simulation Based Geophysical Hazards Analyses - Part III of III
Garden 1A

MS108 Model Error Assessment in Computational Physical Models - Part II of II
Garden 1B

MS109 Multi Level and Multi Index Sampling Methods and Applications - Part II of III
Garden 1C

MS110 Design of Computer Experiments and Sequential Strategies with Gaussian Process Models - Part III of III
Garden 2A

MS111 Data-driven Methods for Uncertainty Quantification - Part I of II
Garden 2B

MS112 Low-rank Tensor Approximations for High-dimensional UQ Problems - Part II of II
Garden 2C

MS113 Advances in Sampling Methods for Bayesian Inverse Problems - Part III of III
Garden 3A

***MS114** Uncertainty Quantification for Complex Physical Models - Part III of III
Garden 3B

MS115 Uncertainty Quantification and Inversion of Multiphysics and Multiscale Problems - Part III of III
Garden 3C

MS116 Uncertainty Quantification in an Industrial Context - Part I of II
Garden 4A

MS117 Mathematical Advances in High-dimensional Approximation and Integration - Part III of III
Garden 4B

MS118 Stochastic Optimization for Engineering Applications - Part III of III
Garden 4C

MS119 Reduced-order Modeling in Uncertainty Quantification - Part III of III
Garden 5A

MS120 Rare Event Study for Stochastic Dynamical System and Random Field - Part III of III
Garden 5B

MS121 Towards a Unifying Probabilistic Framework for Scientific Computations Under Uncertainty - Part II of II
Garden 5C

Friday, April 8

7:30 AM - 6:40 PM

Registration

"Campus" Area, 1st Floor

8:35 AM - 10:35 AM

Concurrent Sessions

MT7 Sobol' Indices: An Introduction and Some Recent Results
Auditorium A

MS122 Numerical Bayesian Analysis - Part I of III
Garden 1A

MS123 Uncertainty Quantification with Vague, Imprecise and Scarce Information
Garden 1B

MS124 Multi Level and Multi Index Sampling Methods and Applications - Part III of III
Garden 1C

MS125 Advances in Optimal Experimental Design for Physical Models - Part I of III
Garden 2A

MS126 Data-driven Methods for Uncertainty Quantification - Part II of II
Garden 2B

MS127 Error Estimation and Adaptive Methods for Uncertainty Quantification in Computational Sciences - Part I of III
Garden 2C

MS128 Learning Parameters from Data: Calibration, Inverse Problems, and Model Updating
Garden 3A

MS129 Surrogate Models for Efficient Robust Optimization and Data Assimilation in Computational Mechanics - Part I of III
Garden 3B

MS130 Towards Data-driven, Predictive Multiscale Simulations - Part I of III
Garden 3C

MS131 Uncertainty Quantification in an Industrial Context - Part II of II
Garden 4A

MS132 Control Design Under Uncertainties
Garden 4B

**Friday,
April 8**

**Friday,
April 8**

**Friday,
April 8**

MS133 Stochastic Modeling and Optimization in Power Grid Operations and Planning - Part I of III
Garden 4C

MS134 Monte Carlo Methods for High Dimensional Data Assimilation
Garden 5A

MS135 Rare Events: Theory, Algorithms, and Applications - Part I of II
Garden 5B

MS136 Intrusive and Hybrid Intrusive UQ Approaches for Extreme Scale Computing
Garden 5C

10:35 AM - 11:05 AM

Coffee Break

"Campus" Area, 1st Floor

11:05 AM - 11:50 AM

IP7 Uncertainty Quantification and Numerical Analysis: Interactions and Synergies
Daniela Calvetti, Case Western Reserve University, USA
Auditorium A

11:55 AM - 12:40 PM

IP8 Multilevel Monte Carlo Methods
Mike Giles, University of Oxford, United Kingdom
Auditorium A

12:40 PM - 12:50 PM

Closing Remarks

Auditorium A

12:50 PM - 2:10 PM

Lunch Break

Attendees on their own

2:10 PM - 4:10 PM

Concurrent Sessions

MT8 Guidelines for Compressive Sensing in UQ
Auditorium A

MS137 Numerical Bayesian Analysis - Part II of III
Garden 1A

MS138 Over-Confidence in Numerical Predictions: Challenges and Solutions - Part I of II
Garden 1B

MS139 Goal Oriented Decision Making Under Uncertainty - Part I of II
Garden 1C

MS140 Advances in Optimal Experimental Design for Physical Models - Part II of III
Garden 2A

MS141 Data Assimilation Techniques for High Dimensional and Nonlinear Problems - Part I of II
Garden 2B

MS142 Error Estimation and Adaptive Methods for Uncertainty Quantification in Computational Sciences - Part II of III
Garden 2C

MS143 Gaussian Processes: Feature Extraction vs Sensitivity Analysis - Part I of II
Garden 3A

MS144 Surrogate Models for Efficient Robust Optimization and Data Assimilation in Computational Mechanics - Part II of III
Garden 3B

MS145 Towards Data-driven, Predictive Multiscale Simulations- Part II of III
Garden 3C

MS146 Numerical Methods for BSDES and Stochastic Optimization - Part I of II
Garden 4A

MS147 Advanced Methods for Enabling Quantification of Uncertainty in Complex Physical Systems - Part I of II
Garden 4B

MS148 Stochastic Modeling and Optimization in Power Grid Operations and Planning - Part II of III
Garden 4C

MS149 Model Reduction in Stochastic Dynamical Systems - Part I of II
Garden 5A

MS150 Rare Events: Theory, Algorithms, and Applications - Part II of II
Garden 5B

MS151 Analysis and Algorithms for High and Infinite Dimensional Problems - Part III of III
Garden 5C

4:10 PM - 4:40 PM

Coffee Break

"Campus" Area, 1st Floor

4:40 PM - 6:40 PM

Concurrent Sessions

MS152 Numerical Bayesian Analysis - Part III of III
Garden 1A

MS153 Over-Confidence in Numerical Predictions: Challenges and Solutions - Part II of II
Garden 1B

MS154 Goal Oriented Decision Making Under Uncertainty - Part II of II
Garden 1C

MS155 Advances in Optimal Experimental Design for Physical Models - Part III of III
Garden 2A

MS156 Data Assimilation Techniques for High Dimensional and Nonlinear Problems - Part II of II
Garden 2B

MS157 Error Estimation and Adaptive Methods for Uncertainty Quantification in Computational Sciences - Part III of III
Garden 2C

MS158 Gaussian Processes: Feature Extraction vs Sensitivity Analysis - Part II of II
Garden 3A

MS159 Surrogate Models for Efficient Robust Optimization and Data Assimilation in Computational Mechanics - Part III of III
Garden 3B

MS160 Towards Data-driven, Predictive Multiscale Simulations- Part III of III
Garden 3C

MS161 Numerical Methods for BSDES and Stochastic Optimization - Part II of II
Garden 4A

MS162 Advanced Methods for Enabling Quantification of Uncertainty in Complex Physical Systems - Part II of II
Garden 4B

MS163 Stochastic Modeling and Optimization in Power Grid Operations and Planning - Part III of III
Garden 4C

MS164 Model Reduction in Stochastic Dynamical Systems - Part II of II
Garden 5A

MS165 Stochastic Transport Problems in Subsurface Flow
Garden 5B

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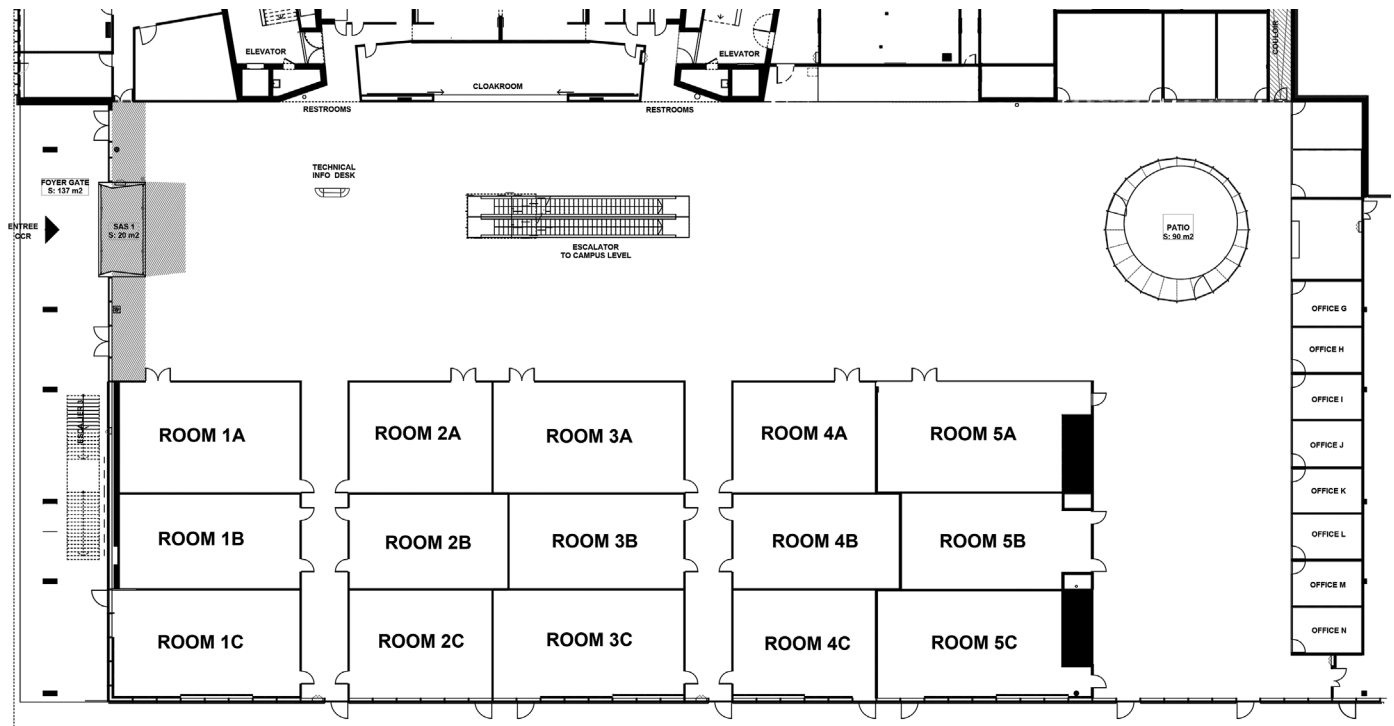
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