

# Discrete Mathematics At-a-Glance

Monday, June 4

Monday, June 4

Tuesday, June 5

7:00 AM - 8:30 AM

Registration

Tivoli Student Union Turnhalle (TV 250) Atrium

8:00 AM - 8:15 AM

Opening Remarks

Tivoli Student Union Turnhalle (TV 250)

8:15 AM - 9:00 AM

**IP1** Analytic Methods in Graph Theory

Daniel Kral, University of Warwick, United Kingdom

Tivoli Student Union Turnhalle (TV 250)

9:00 AM - 9:30 AM

Coffee Break



Tivoli Student Union Turnhalle (TV 250) Atrium

9:00 AM - 4:00 PM

Registration

North Classroom 1130 Entry

9:30 AM - 12:00 PM

**Concurrent Sessions**

**MS1** Combinatorics of Partially Ordered Sets - Part I of III

North Classroom 1604

**MS2** Structural Graph Theory - Part I of III

North Classroom 1130

**MS3** Graph Coloring - Part I of II

North Classroom 1005

**MS4** Discrete Random Processes - Part I of II

North Classroom 1003

**MS5** Extremal Problems Involving Cycles and Trees - Part I of II

North Classroom 1806

**CP1** Networks

North Classroom 1606

**CP2** Directed Graphs

North Classroom 1607

12:00 PM - 1:30 PM

Lunch Break

Attendees on their own

1:30 PM - 2:15 PM

**IP2** Interpolation Polynomials, Operator Method, and Theory of Enumeration

Catherine Yan, Texas A&M University, USA

Tivoli Student Union Turnhalle (TV 250)

2:15 PM - 2:45 PM

Coffee Break



Tivoli Student Union Turnhalle (TV 250) Atrium

2:45 PM - 5:15 PM

**Concurrent Sessions**

**MS6** Combinatorics of Partially Ordered Sets - Part II of III

North Classroom 1604

**MS7** Structural Graph Theory - Part II of III

North Classroom 1130

**MS8** Graph Coloring - Part II of II

North Classroom 1539

**MS9** Secret Sharing at the Intersection of Cryptography and Coding Theory

North Classroom 1606

**MS10** Discrete Random Processes - Part II of II

North Classroom 1003

**MS11** Extremal Problems Involving Cycles and Trees - Part II of II

North Classroom 1806

**CP3** Algebraic Combinatorics/Geometry

North Classroom 1607

5:15 PM - 7:15 PM

Welcome Reception

Tivoli Brewing Company



Tuesday, June 5

7:30 AM - 3:30 PM

Registration

North Classroom 1130 Entry

8:10 AM - 8:15 AM

Announcements

North Classroom 1130

8:15 AM - 9:00 AM

**IP3** Title Not Available at Time of Publication  
Anna R. Karlin, University of Washington, USA

North Classroom 1130

9:00 AM - 9:30 AM

Coffee Break

North Classroom 1130 Atrium



9:30 AM - 12:00 PM

**Concurrent Sessions**

**MS12** Combinatorics of Partially Ordered Sets - Part III of III

North Classroom 1604

**MS13** Structural Graph Theory - Part III of III

North Classroom 1130

**MS14** Graph Colouring - Part I of II

North Classroom 1539

**MS15** Computational Biology - Part I of II

North Classroom 1003

**MS16** New Trends in Enumerative Combinatorics - Part I of II

North Classroom 1806

**CP4** Algorithms and Applications

North Classroom 1606

12:00 PM - 1:30 PM

Lunch Break

Attendees on their own

1:30 PM - 2:15 PM

**SP1** 2018 Dénes König Prize Lecture:

Pseudorandom Graphs and the Green-Tao Theorem

Yufei Zhao, Massachusetts Institute of Technology, USA

North Classroom 1130

2:15 PM - 2:45 PM

Coffee Break

North Classroom 1130 Atrium



2:45 PM - 5:15 PM

**Concurrent Sessions**

**MS17** Graph Colouring - Part II of II

North Classroom 1539

**MS18** Computational Biology - Part II of II

North Classroom 1003

**MS19** New Trends in Enumerative Combinatorics - Part II of II

North Classroom 1806

**MS20** Linear Algebra Methods in Combinatorics

North Classroom 1005

**CP5** Hypergraphs, Ordered Sets, Extremal Combinatorics

North Classroom 1604

**CP6** Computational Geometry/Words

North Classroom 1606

# Discrete Mathematics At-a-Glance

Wednesday, June 6

Wednesday, June 6

Thursday, June 7

**7:30 AM - 3:30 PM**

Registration

*North Classroom 1130 Entry*

**8:10 AM - 8:15 AM**

Announcements

*North Classroom 1130*

**8:15 AM - 9:00 AM**

**IP4** Waiter-Client Games

Michael Krivelevich, Tel Aviv University, Israel

*North Classroom 1130*

**9:00 AM - 9:30 AM**

Coffee Break

*North Classroom 1130 Atrium*



**9:30 AM - 12:00 PM**

**Concurrent Sessions**

**MS21** Edge Colouring and Related Notions - Part I of II

*North Classroom 1003*

**MS22** Theoretical Computer Science as a New Discovery Engine of Discrete Mathematics

*North Classroom 1607*

**MS23** Reconfiguration Problems

*North Classroom 1604*

**MS24** Analytic and Probabilistic Techniques in Combinatorics - Part I of II

*North Classroom 1005*

**MS25** Graph Pebbling - Part I of III

*North Classroom 1130*

**MS26** Matroid Theory - Part I of II

*North Classroom 1806*

**CP7** Structural Graph Theory

*North Classroom 1606*

**12:00 PM - 1:30 PM**

Lunch Break

*Attendees on their own*

**1:30 PM - 2:15 PM**

**IP5** New Developments in Hypergraph Ramsey Theory

Andrew Suk, University of California, San Diego, USA

*North Classroom 1130*

**2:15 PM - 2:45 PM**

Coffee Break

*North Classroom 1130 Atrium*



**2:45 PM - 5:15 PM**

**Concurrent Sessions**

**MS27** Modification Problems to Discrete Structures - Part I of II

*North Classroom 1604*

**MS28** Edge Colouring and Related Notions - Part II of II

*North Classroom 1003*

**MS29** Spatial Random Networks

*North Classroom 1606*

**MS30** Analytic and Probabilistic Techniques in Combinatorics - Part II of II

*North Classroom 1539*

**MS31** Graph Pebbling - Part II of III

*North Classroom 1130*

**MS32** Matroid Theory - Part II of II

*North Classroom 1806*

**CP8** Enumeration

*North Classroom 1607*

**5:15 PM - 5:30 PM**

Intermission

**5:30 PM - 6:30 PM**

SIAG/DM Business Meeting

*North Classroom 1130*

*Complimentary refreshments will be served.*



Thursday, June 7

**7:30 AM - 3:30 PM**

Registration

*North Classroom 1130 Entry*

**8:10 AM - 8:15 AM**

Announcements

*North Classroom 1130*

**8:15 AM - 9:00 AM**

**IP6** Random Graph Processes

Robert Morris, Institute for Pure and Applied Mathematics - IMPA, Brazil

*North Classroom 1130*

**9:00 AM - 9:30 AM**

Coffee Break

*North Classroom 1130 Atrium*



**9:30 AM - 12:00 PM**

**Concurrent Sessions**

**MS33** The Structure of Families of Finite Sets - Part I of II

*North Classroom 1539*

**MS34** Modification Problems to Discrete Structures - Part II of II

*North Classroom 1604*

**MS35** Modeling and Mining Network Data - Part I of II

*North Classroom 1003*

**MS36** Open Problems in Combinatorics on Words

*North Classroom 1806*

**MS37** Graph Pebbling - Part III of III

*North Classroom 1130*

**CP9** Coloring

*North Classroom 1606*

**12:00 PM - 1:30 PM**

Lunch Break

*Attendees on their own*

**1:30 PM - 2:15 PM**

**IP7** Deciphering Cellular Networks: From Normal Functioning to Disease

Mona Singh, Princeton University, USA

*North Classroom 1130*

**2:15 PM - 2:45 PM**

Coffee Break

*North Classroom 1130 Atrium*



Key to abbreviations and symbols

= Coffee Break

= Refreshments Served

IP = Invited Plenary Speaker

= Business Meeting

CP = Contributed Presentation

MS = Minisymposium

SP = Special Lecture

# Discrete Mathematics At-a-Glance

**Thursday, June 7**

**Friday, June 8**

**Friday, June 8**

2:45 PM - 5:15 PM

**Concurrent Sessions**

**MS38** Extremal Problems for Sparse Graphs and Hypergraphs - Part I of II

*North Classroom 1003*

**MS39** The Structure of Families of Finite Sets - Part II of II

*North Classroom 1539*

**MS40** Modeling and Mining Network Data - Part II of II

*North Classroom 1604*

**MS41** Foundations of Data Science - Part I of II

*North Classroom 1130*

**MS42** Results from the Graduate Research Workshop in Combinatorics

*North Classroom 1606*

**CP10** General Graph Theory

*North Classroom 1607*

5:15 PM - 5:30 PM

Intermission

5:30 PM - 6:30 PM

**SP2** Hot Topics Session

Henry Cohn, Microsoft Research New England, USA

*North Classroom 1130*

7:30 AM - 10:30 AM

Registration

*North Classroom 1130 Entry*

8:10 AM - 8:15 AM

Closing Remarks

*North Classroom 1130*

8:15 AM - 9:00 AM

**IP8** Algorithms for the Asymmetric Traveling Salesman Problem

Ola Svensson, École Polytechnique Fédérale de Lausanne, Switzerland

*North Classroom 1130*

9:00 AM - 9:30 AM

Coffee Break

*North Classroom 1130 Atrium*



9:30 AM - 12:00 PM

**Concurrent Sessions**

**MS43** Extremal Problems for Sparse Graphs and Hypergraphs - Part II of II

*North Classroom 1806*

**MS44** Structured Families of Graphs and Posets

*North Classroom 3205*

**MS45** Graph Curvature and Related Topics

*North Classroom 3207*

**MS46** Computational Methods in Discrete Mathematics

*North Classroom 1207*

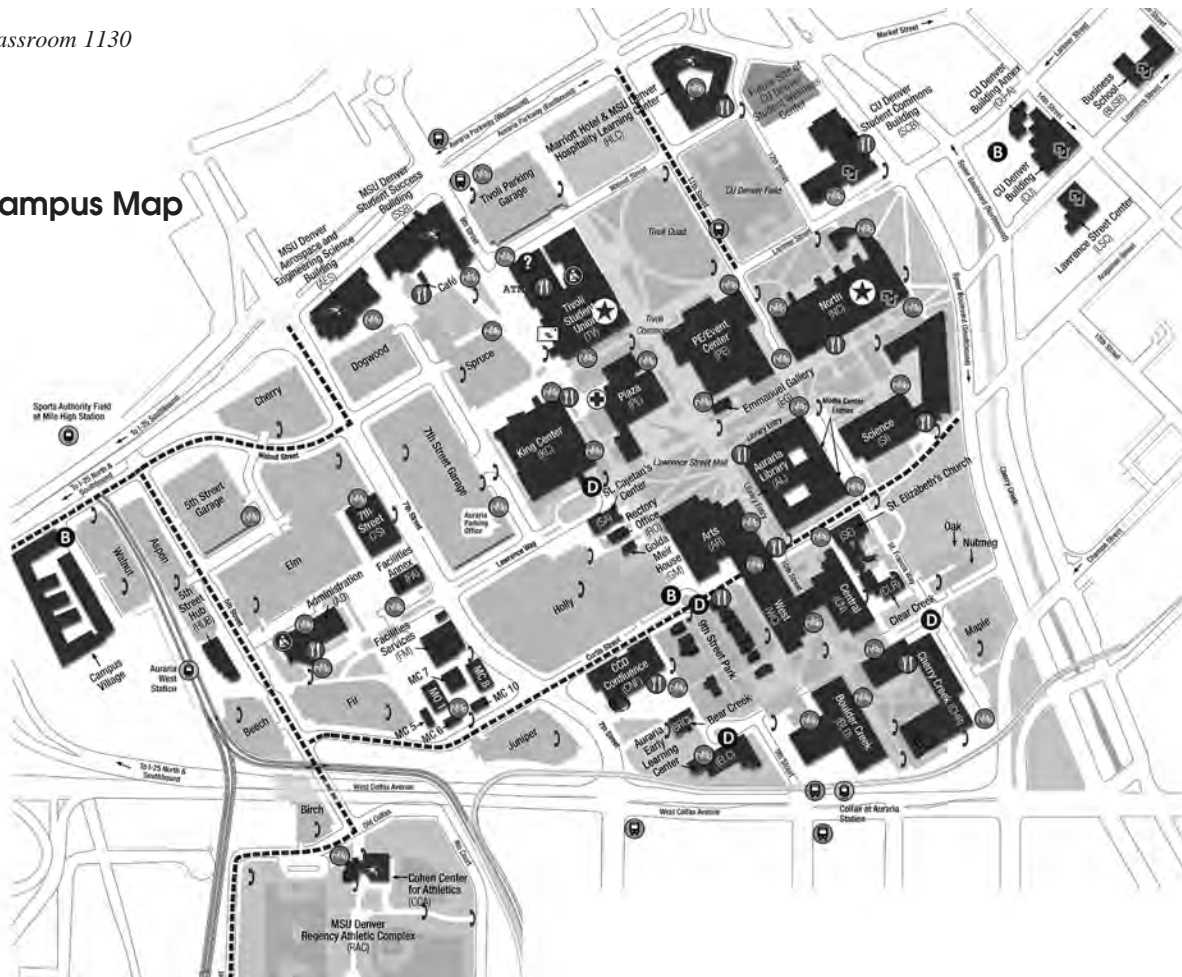
**MS47** Foundations of Data Science - Part II of II

*North Classroom 1130*

**MS48** Graph Polynomials

*North Classroom 3209*

## Campus Map



# Program At-A-Glance

Figure courtesy Victor Chepoi, Hans-Juergen Bandelt, David Eppstein from SIDMA 24-4

