



NETWORKS is a project of
University of Amsterdam
Eindhoven University of Technology
Leiden University
Center for Mathematics and
Computer Science (CWI)

Program 6th Networks Training Week April 9 - 13, 2018

Monday April 9, 2018

- 12:00 – 12:30 Arrival
- 12:30 – 13:30 Lunch
- 13:30 – 14:30 Research presentations, Session 1
- Frank den Hollander: Spectra of adjacency matrices of random networks
 - Janusz Meylahn: Synchronisation on networks
 - Stella Kapodistria: Optimal order picking from a large retailer warehouse
- 14:30 – 14:40 Short break
- 14:40 – 15:40 Session 2:
Research presentations, Session 2
- Nikhil Bansal: The Gram-Schmidt Walk: A Cure for the Banaszczyk Blues
 - Sudeshna Kolay: FPT algorithms for embedding into low complexity graphic metrics
 - Tom van der Zanden: Computing Shapley values on graphs of small treewidth
- 15:40 – 16:00 Break
- 16:00 – 17:00 Open problem session
- 17:00 – 18:00 Research session: work in small groups
- 18:30 Dinner

Tuesday April 10, 2018

- 07:30 – 09:00 Breakfast
- 09:00 – 10:15 Mini-course on *Stochastic Simulation*: Jan-Pieter Dorsman
- 10:15 – 10:45 Break
- 10:45 – 12:00 Mini-course on *Applications of Grothendieck's inequality*: Jop Briët
- 12:00 – 13:30 Lunch
- 13:30 – 14:50 Research presentations, Session 3
- Michel Mandjes: Population processes on random graphs, Introduction
 - Brendan Patch: Which starfish to kill first? Stochastic models to guide management of an invasive species
 - Marijn Jansen: Queueing networks with breakdowns: applications in assembly-like queues
 - Nicos Starreveld: A random graph model for polymerization
- 14:50 – 15:20 Break
- 15:20 – 18:00 Research session: work in small groups
- 18:30 Dinner

Wednesday April 11, 2018

- 07:30 – 09:00 Breakfast
- 09:00 – 10:15 Mini-course on *Stochastic Simulation*: Jan-Pieter Dorsman
- 10:15 – 10:45 Break
- 10:45 – 12:00 Mini-course on *Applications of Grothendieck's inequality*: Jop Briët
- 12:00 – 13:30 Lunch

Wednesday

April 11, 2018

13:30 – 14:10

Research presentations, Session 4

- Sandor Kolomban: Detecting causal networks between a collection of short time series data
- Liron Ravner: Estimating the input of a Lévy driven queue by Poisson sampling of the workload process
- Murtuza Abidini: Revenue optimization in an optical node

14:10 – 14:30

Break

14:30 – 16:30

Research session: work in small groups

16:30 – 21:00

Social event and dinner

Thursday

April 12, 2018

07:30 – 09:00

Breakfast

09:00 – 10:15

Mini-course on *Stochastic Simulation*: Jan-Pieter Dorsman

10:15 – 10:45

Break

10:45 – 12:00

Mini-course on *Applications of Grothendieck's inequality*: Jop Briët

12:00 – 13:30

Lunch

13:30 – 14:50

Research presentations, Session 5

- Lex Schrijver: Partition functions and graph limits
- Aleksandar Markovic: Dynamic Conflict-Free Colorings in the Plane
- Jesper Nederlof: More Consequences of Falsifying SETH and the Orthogonal Vectors \ Conjecture

14:50 – 15:20

Break

15:20 – 18:00

Research session: work in small groups

18:30

Dinner

Friday

April 13, 2018

07:30 – 09:00

Breakfast

09:00 – 10:00

Research presentations, Session 6

- Madelon de Kemp: Performance of the smallest-variance-first rule in appointment sequencing
- Tom Bannink: SAT solvers, evolutionary biology and power series
- David Koops: Blockchains

10:00 – 10:10

Short break

10:10 – 11:30

Working session

11:30 – 12:00

Closing session

12:00 – 12:30

Take away lunch

Location:

Conferentiecentrum Kaap Doorn

Postweg 9

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<https://www.kaapdoorn.nl/>