

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

Program 5th Networks Training Week October 30 - November 3, 2017

Monday October 30, 2017

12:00 - 12:30	Arrival
12:30 – 13:30	Lunch
13:30 - 14:30	Session 1: Optimization and control of network traffic
	• Jaap Storm: Analysis of a roundabout model
	• Abishek: A novel approach to analyze unsignalized intersections: How to incorporate
	driver behavior and heterogeneous traffic

- Liron Ravner: A strategic model of job arrivals to a single machine with earliness and ٠ tardiness penalties
- 14:30 14:40 Short break
- 14:40 15:40Session 2: Network structure
 - Alessandro Garavaglia: Results and open problems on citation networks

- Debankur Mukherjee: Phase transitions of extremal cuts for random graphs ٠
- Margriet Oomen: Spatial populations on hierarchical graphs with seed-bank
- 15:40 16:00 Break
- Open problem session 16:00 - 17:00
- Research session: work in small groups 17:00 - 18:00
- 18:30 Dinner

Tuesday October 31, 2017

- 07:30 09:00 Breakfast
- 09:00 10:15 Mini-course on Expansion properties of networks: Viresh Patel
- 10:15 10:45 Break
- 10:45 12:00 Mini-course on Random walks, forests and network analysis: Luca Avena
- 12:00 13:30 Lunch
- 13:30 14:50 Session 3: (Geometric) Graph Algorithms
 - Jesper Nederlof: Using graph decompositions algorithmically via matrix rank
 - Astrid Pieterse: Optimal data reduction for graph coloring using low-degree polynomials
 - Bart Jansen: TBA
 - Mark de Berg: Geodesic spanners for points on a polyhedral terrain
- 14:50 15:20 Break
- 15:20 18:00 Research session: work in small groups
- 18:30 Dinner

November 1, 2017 Wednesday

- 07:30 09:00 Breakfast
- 09:00 10:15Mini-course on Expansion properties of networks: Viresh Patel
- 10:15 10:45 Break
- 10:45 12:00 Mini-course on Random walks, forests and network analysis: Luca Avena
- 12:00 13:30 Lunch
- Session 4: Dynamics on random graphs 13:30 - 14:10
 - Jan Nagel: Random walks in barely supercritical random environments •
 - Hakan Guldas: Mixing times for random walks on dynamic random graphs ٠
 - Pieter Kleer: Shapley cost-sharing in clustering games on (random) graphs
- 14:10 14:30 Break
- 14:30 16:30 Research session: work in small groups
- 16:30 21:00 Social activity and dinner

Thursday	November 2, 2017
07:30 – 09:00	Breakfast
09:00 - 10:15	Mini-course on Expansion properties of networks: Viresh Patel
10:15 – 10:45	Break
10:45 - 12:00	Mini-course on Random walks, forests and network analysis: Luca Avena
12:00 – 13:30	Lunch
13:30 - 14:50	Session 5: Queueing and more
	• Matteo Sfragara: Transition time asymptotics of queue-based activation protocols in random-access networks
	 Nicos Starreveld: A network of M/M/infty queues with connection failures
	 Fiona Sloothaak: Cascading failures on a connected configuration model
14:50 – 15:20	Break
15:20 - 18:00	Research session: work in small groups
18:30	Dinner
Friday	November 3, 2017
07:30 – 09:00	Breakfast
09:00 - 10:00	Session 6: Decision making and performance analysis
	 Stella Kapodistria: Decision making in a Bayesian framework
	Madelon de Kemp: Appointment scheduling
	Murtuza Ali Abidini: Performance analysis of optical networks
10:00 - 10:30	Break
10:30 - 12:00	Closing session
12:00 - 13:30	Lunch
12.00 15.50	

Location:

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