Stochastic Networks Conference Schedule with Titles of Talks

Atkinson Hall

Qualcomm Institute

UC San Diego

June 20-24, 2016

1 MONDAY, JUNE 20, 2016

1.1 MONDAY MORNING

8.30-9.30 a.m. Registration/Breakfast
9.30-9.45 a.m. Opening (Ruth Williams-Program Chair, Ramesh Rao-Qualcomm Institute)
9.45 a.m.-12.15 p.m. *Session Chair:* Cristina Costantini (Universita di Chieti-Pescara)
9.45-10.45 a.m. Tom Kurtz (U. Wisconsin)
Exchangeable systems and mean field approximations for stochastic networks
10.45 a.m.-11.15 a.m. Coffee Break
11.15 a.m.-12.15 p.m. Philippe Robert (INRIA)
Asymptotics of stochastic protein assembly models

1.2 MONDAY AFTERNOON

2-3 p.m. *Chair:* Tara Javidi (UCSD)

Fan Chung Graham (UC San Diego)
Graph coloring games and voter models

3-3.30 p.m. Coffee Break

3.30-5.30 p.m. POSTER PRESENTATIONS
Chair: Amber Puha (CSUSM)
5.30-7.30 p.m. POSTER SESSION

See separate listing of poster presenters, titles and abstracts.

2 TUESDAY, JUNE 21, 2016

2.1 TUESDAY MORNING

8.30-9.30 a.m. Registration/Breakfast
9.30 a.m.-noon *Session Chair:* Adam Wierman (Cal Tech)
9.30-10.30 a.m. Laurent Massoulie (Microsoft Research-INRIA)
Non-regular Ramanujan graphs and community detection
10.30 a.m.-11 a.m. Coffee Break
11 a.m.-noon. Emmanuel Abbe (Princeton)
Reaching and crossing thresholds in the stochastic block model

2.2 TUESDAY AFTERNOON

2-4.30 p.m. *Session Chair:* Amarjit Budhiraja (Univ. North Carolina, Chapel Hill)

2-3 p.m. Bert Zwart (Centrum Wiskunde & Informatica)
Sample-path large deviations for heavy tails

3-3.30 p.m. Coffee Break

3.30-4.30 p.m. Mark Lewis (Cornell)
Dynamic control of a tandem queueing system with abandonments

4.30-5.30 p.m. Conference walk

3 WEDNESDAY, JUNE 22, 2016

3.1 WEDNESDAY MORNING

8.30-9.30 a.m. Registration/Breakfast

9.30 a.m.-noon *Session Chair:* Andres Ferragut (Universidad ORT Uruguay)

9.30-10.30 a.m. Angelia Nedich (U. Illinois, Urbana-Champaign)
Decentralized hypothesis testing on graphs

10.30-11 a.m. Coffee Break

11 a.m.-noon Guy Bresler (MIT)
Learning a tree-structured Ising model in order to make predictions

3.2 WEDNESDAY AFTERNOON

1-1.50 p.m. Qualcomm Institute Tour and Demos

2-3 p.m. *Chair:* Masakiyo Miyazawa (Tokyo University of Science)
Maury Bramson (U. of Minnesota)
Stability and (mostly) instability of the MaxWeight policy

3-3.30 p.m. Coffee Break

3.30-4.30 p.m. *Chair:* R. Srikant (UIUC)
Yi Lu (U. Illinois, Urbana-Champaign)
Scheduling in Hadoop clusters: Affinity scheduling with delay optimality but no planning

4.30-5.30 p.m. *Chair:* R. Srikant (UIUC)
Siva Maguluri (IBM T. J. Watson Research Center)
Delay-optimal scheduling for data center networks and input-queued switches in heavy traffic

4 THURSDAY, JUNE 23, 2016

4.1 THURSDAY MORNING

8.30-9.30 a.m. Registration/Breakfast

9.30 a.m.-noon *Session Chair:* Marty Reiman (Columbia U.)

9.30-10.30 a.m. Kavita Ramanan (Brown U.)
Ergodicity of stochastic networks

10.30-11 a.m. Group Photo and Coffee Break

11 a.m.-noon. Rami Atar (Technion)
On the measure-valued Skorohod map

4.2 THURSDAY AFTERNOON

1.30-2.30 p.m. *Chair:* Ilze Ziedins (U. Auckland)
Galit Yom Tov (Technion)
The impact of delay announcements on hospital network coordination and waiting times

2.30-3.30 p.m. *Chair:* Ilze Ziedins (U. Auckland)
Neil Walton (Manchester University)
Join-the-shortest-queue and idle-one-first in the NDS regime

3.30-4 p.m. Coffee Break

4-5 p.m. *Chair:* Amy Ward (USC)
Itai Gurvich (Northwestern)
Beyond heavy-traffic regimes: Universal bounds and controls for the single-server queue

5.30-8.30 p.m.
CONFERENCE DINNER, UC San Diego Faculty Club.
Dinner tickets must be purchased in advance, with registration.

5 FRIDAY, JUNE 24, 2016

5.1 FRIDAY MORNING

8.30-9.30 a.m. Registration/Breakfast

9.30 a.m.-noon *Session Chair:* John Hasenbein (U. Texas, Austin)

9.30-10.30 a.m. Francois Baccelli (U. Texas, Austin)

Navigation on a stochastic network

10.30-11 a.m. Coffee Break

11 a.m.-noon Jim Dai (Cornell)

Diffusion approximations of queueing networks: a direct method for proving stationary distribution convergence

noon-12.15 p.m. Closing