

# Optimization and Control of Networks: From Theory to Practice

Reunion Workshop on Prof. Steven Low's 60th Birthday

May 24-25, 2023

May 24

7:45am–8:30am: Breakfast

8:30am–8:35am: Welcome remarks

8:35am–8:40am: Steven remarks

8:45am–9:30am: Keynote I (R. Srikant)

9:30am–10:00am: TBD (H. Newman)

10:00am–10:15am: Coffee break

10:15am–10:35am: Large-Scale Optimization of Convex-Concave Games in Networks (C. W. Tan)

10:35am–10:55am: Load Balancing at Google (B. Wydrowski)

10:55am–11:15am: LLM Training (D. Wei)

11:15am–11:35am: Recent Work on AI Systems (Z. Liu)

11:35am–11:55am: Privacy & Security of Learning Algorithms: A Control Theory Perspective (Dvijotham)

11:55am–1:25pm: Lunch

1:25pm–2:10pm: Keynote II (J. Bialek)

2:10pm–2:40pm: TBD (A. Wierman)

2:40pm–2:50pm: Coffee break (short)

2:50pm–3:10pm: How Much Should We Trust ML Agents in Power Systems? (T. Li)

3:10pm–3:30pm: Market Power & Withholding Behavior of Energy Storage Units (J. Anderson)

3:30pm–3:50pm: Approaches to Integrate Distributed Energy Resources (S. Bose)

3:50pm–4:00pm: Coffee break (short)

4:00pm–5:15pm: Startup Panel: Crossing the Gap

(panlists: C. Jin, G. Lee, K. Tang, D. Wei; moderator: S. Low)

6:00pm–9:00pm: Reception and dinner

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6:15pm–7:00pm: Special Keynote by J. Doyle

May 25

8:00am-8:45am: Breakfast

8:45am-9:30am: Keynote III (F. Paganini)

9:30am-9:50am: Model-free Analysis of Dynamical Systems Using Recurrent Set (E. Mallada)

9:50am-10:10am: Humans vs. autonomous systems: robustness and intelligence (Y. Nakahira)

10:10am-10:30am: TBD (G. Qu)

10:30am-10:50am: TBD (E. Bitar)

10:50am-11:00am: Coffee break (short)

11:00am-12:00pm: random updates (all)

12:00pm-1:00pm: Lunch

1:00pm -: Huntington library tour, Echo mountain hiking, ???