

DTU Summer School 2020:

Advanced Optimization, Learning and Game-Theoretic Models in Energy Systems

June 21-26, 2020



| | |
|---------------------|--|
| June 21 (Sunday) | 18:30 – 21:30 (Danhostel Copenhagen City*) |
| | Reception |

* Address: H.C. Andersens Boulevard 50, 1553 Copenhagen V.

| | DTU Lyngby Campus – Building TBD, Room TBD | | | | | | |
|---------------------|--|--|--|---------------|--|----------------|--------|
| | 8:30 – 9:00 | 9:00 – 9:30 | 9:30 – 12:30 (with a 15-min coffee break in between) | 12:30 – 14:00 | 14:00 – 17:00 (with a 15-min coffee break in between) | 17:00 – 19:30 | 19:30 |
| June 22 (Monday) | Breakfast | Introduction Jalal Kazempour (DTU) | <u>Keynote Talk I</u> Electricity Market Design William W. Hogan (Harvard University) | Lunch | <u>Keynote Talk II</u> Electricity Markets: Challenges and Solutions Ross Baldick (University of Texas at Austin) | Poster Session | Dinner |

| DTU Lyngby Campus – Building TBD, Room TBD | | | | | | |
|--|--------------|---------------|---|------------------------|---------------|---|
| | 8:30 – 9:00 | 9:00 – 9:15 | 9:15 – 12:15 (with a 15-min coffee break in between) | 12:15 – 14:00 | 14:00 – 14:30 | 14:30 – 17:30 (with a 15-min coffee break in between) |
| June 23 (Tuesday) | Breakfast | Recap | Machine Learning: State-of-the-art and Applications to Renewable Energy Shie Mannor (Technion) | Lunch | MOSEK | Stochastic Programming Applications to Power System Operation and Investment Trine Boomsma (University of Copenhagen) |
| DTU Risø Campus – Building TBD, Room TBD | | | | | | |
| | 9:30 – 10:00 | 10:00 – 10:15 | 10:15 – 13:15 (with a 15-min coffee break in between) | 13:15 – 20:30 | | |
| June 24 (Wednesday) | Breakfast | Recap | Aggregative and Network Games Sergio Grammatico (TU Delft) | Lunch and Social Event | | |

June 21-26, 2020

| DTU Lyngby Campus – Building TBD, Room TBD | | | | | | | | |
|--|----------------|----------------|--|---|---|--|---|------------------|
| June 25 (Thursday) | 8:30 – 9:00 | 9:00 – 9:15 | 9:15 – 12:15 (with a 15-min coffee break in between) | 12:15 – 13:45 | 13:45 – 14:30 | 14:30 – 17:30 (with a 15-min coffee break in between) | | |
| | Breakfast | Recap | Model Predictive Control Melanie Zeilinger (ETH Zurich) | Lunch | Presentation of the two best posters | Learning and Optimization for Power Distribution Grids Vassilis Kekatos (Virginia Tech) | | |
| DTU Lyngby Campus – Building TBD, Room TBD | | | | | | | | |
| June 26 (Friday) | 8:30 – 9:00 | 9:00 – 9:15 | 9:15 – 11:30 (with a 15-min coffee break in between) | 11:30 – 12:30 | 12:30 – 14:00 | 14:00 – 15:00 | 15:00 –17:15 (with a 15-min coffee break in between) | 17:15 – 17:40 |
| | Breakfast | Recap | Equilibrium Models in Power Systems Jalal Kazempour (DTU) | Forecasting in Power Systems – Part I Pierre Pinson (DTU) | Lunch | Forecasting in Power Systems – Part II Pierre Pinson (DTU) | Machine Learning Applications in Power Systems Spyros Chatzivasileiadis (DTU) | Conclusion |