Workshop

Large-scale Computation in Traffic Studies

The goal of this workshop is to assemble researchers and practitioners from the transportation, large-scale computing, and data science communities to address the challenges of integrating next-generation technologies into the design of transportation systems. Discussion topics include:

• Big Data Analytics and Data Science with Real-World Transportation Data:
  • Application of machine learning
  • Methods for addressing data veracity and data reduction
  • Data assimilation and modeling for large-scale urban area modeling

• Modeling and Prediction:
  • Modeling the decisions of millions of vehicles and drivers as they interact with service providers
  • Predicting the impact of new transit options on the system behavior
  • Mitigating the effects of incidents on the system

Speakers:

- Alex Bayen, Institute of Transportation Studies, UC Berkeley
- Brian Peterson, Connected Corridor Program, UCB/Caltrans
- Matei Stroila, HERE Technologies
- Prasanna Balaprakash, Argonne National Laboratory
- Gabriel Gomes, Institute of Transportation Studies, UC Berkeley
- Colin Sheppard, ETA, Lawrence Berkeley Laboratory
- Josh Auld, Argonne National Laboratory
- Cy Chan, Computing Research Division, LBNL