

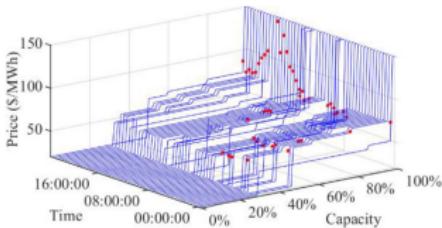
Objective-Function Learning in Electricity Market [Guo et al. 2021]

- ▶ Target: bidding behavior modeled by objective/reward function
- ▶ standard feed-forward NN as objective function

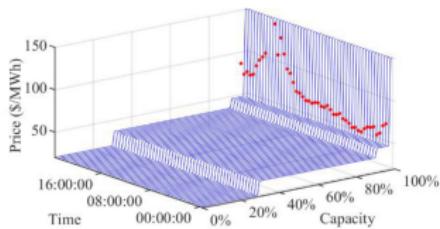
Objective-Function Learning in Electricity Market [Guo et al. 2021]

- ▶ Target: bidding behavior modeled by objective/reward function
- ▶ standard feed-forward NN as objective function
- ▶ agent: electricity generator
- ▶ state: price, electricity capacity/amount, forecast demand
- ▶ action: bid in market (comprised of price and capacity)

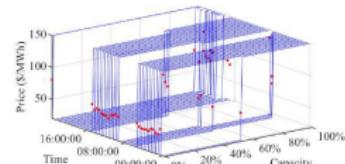
Results from [Guo et al. 2021]



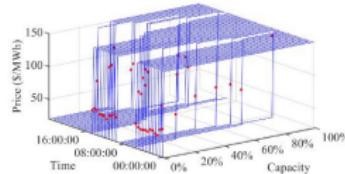
(a) Inverse RL reward function for ER04



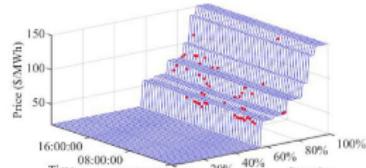
(b) Assumed reward function for ER04



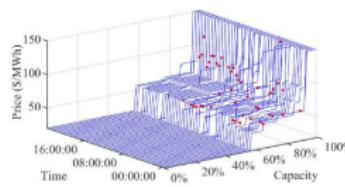
(a) CPSA behaviors by the identified reward function



(b) CPSA behaviors by the assumed reward function



(c) STAN-1 behaviors by the identified reward function



(d) STAN-1 behaviors by the assumed reward function