

## **Towards intelligent electricity and water infrastructures**

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Transportation infrastructures, such as water distribution networks, power grids, road traffic networks, railway networks, are the corner stones of our modern society. As transportation infrastructures have to operate closer and closer to their capacity limits and as the dynamics of these networks become more and more complex, control of these systems has to be advanced to a higher level using state-of-the-art control techniques. Such control techniques should be able to deal with the large size, distributed, and multi-objective nature of the control problems encountered, and should be able to anticipate undesired behavior at an early stage. In this talk we discuss how multi-agent or distributed model predictive control can be used for control of transportation infrastructures. We hereby in particular focus on applications in the domains of electricity and water networks.