

ATES Smart Grids

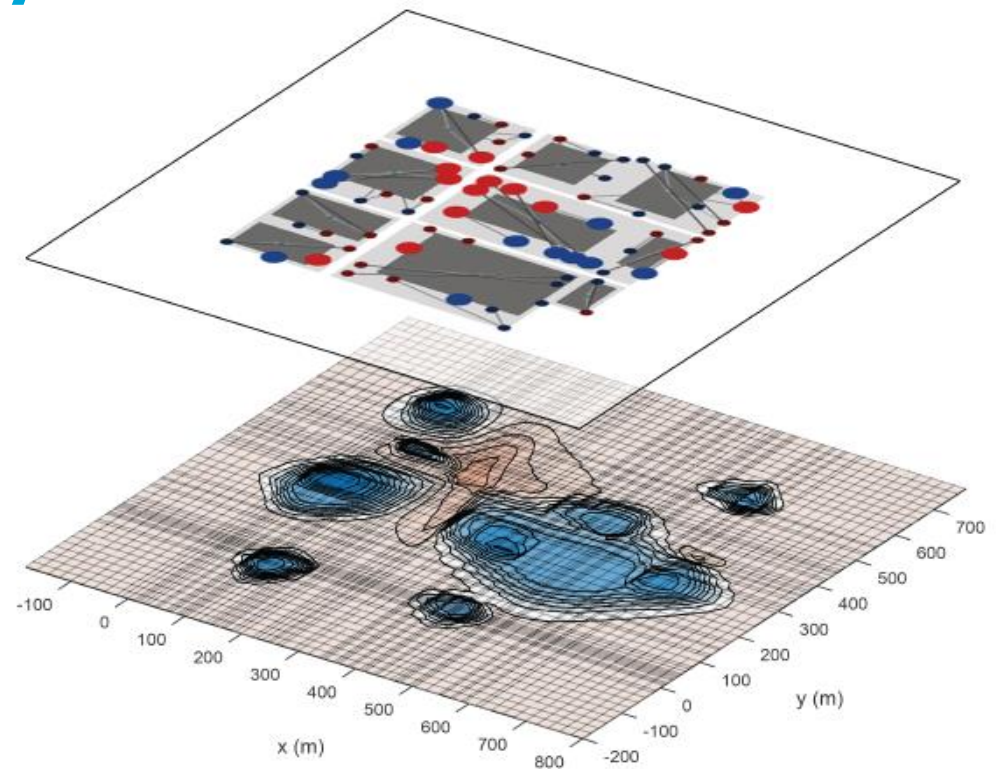
Control / monitoring for smart buildings and thermal urban energy systems

Dr. ir. Tamás Keviczky

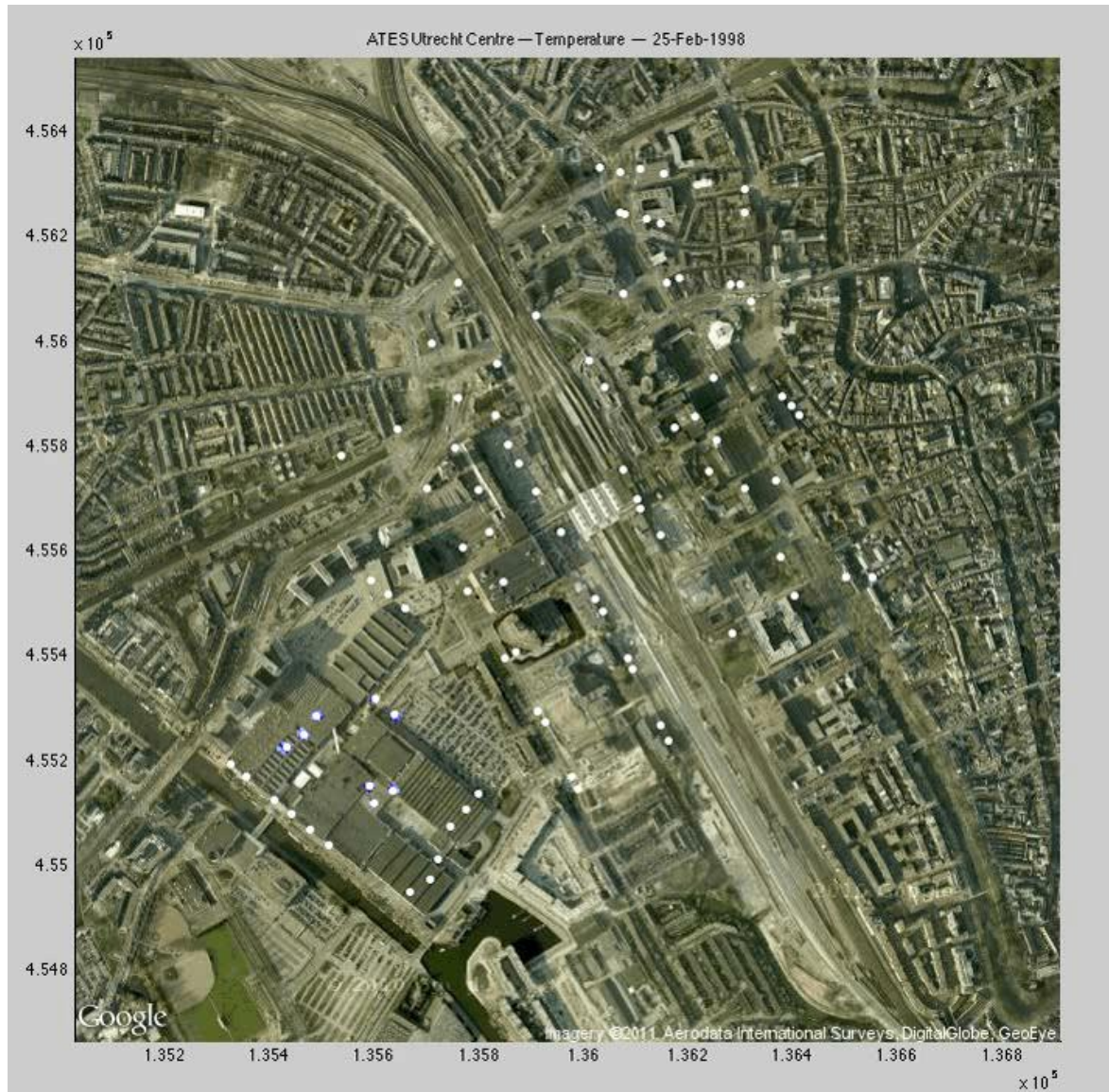
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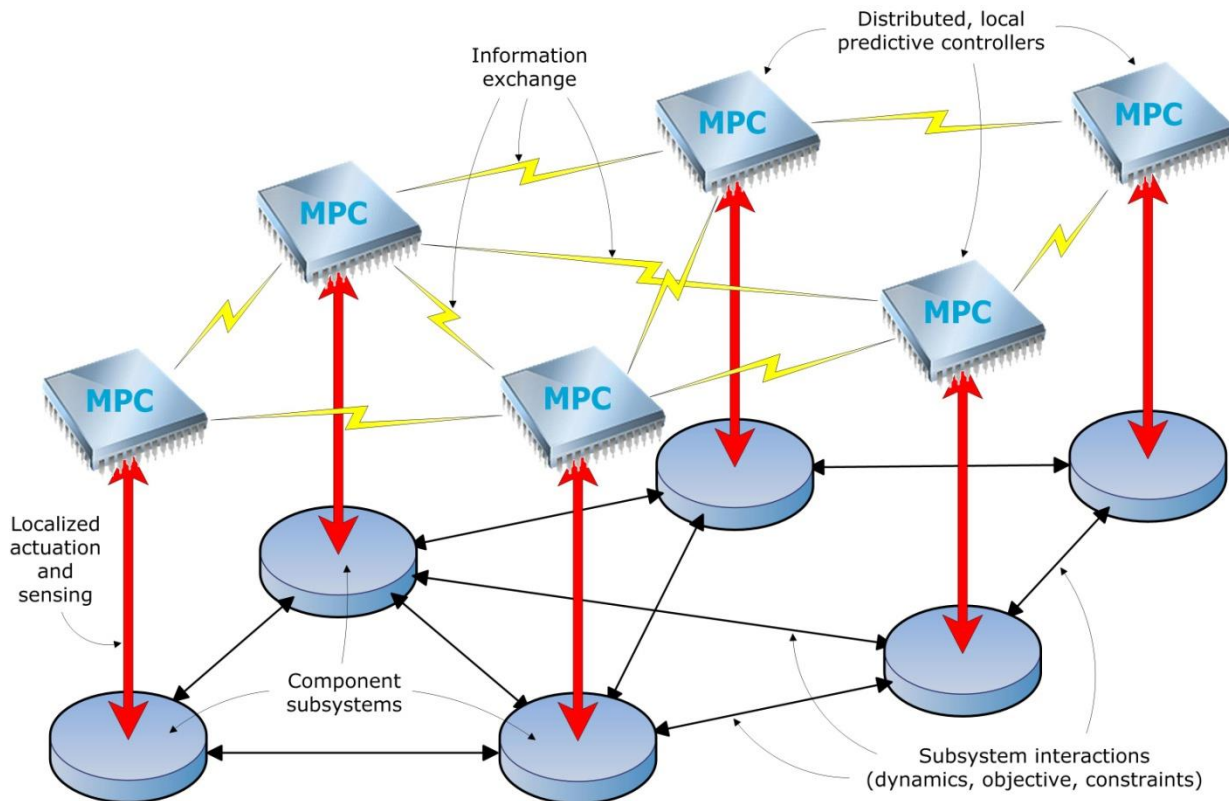
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ATES Systems in Dense Urban Environments



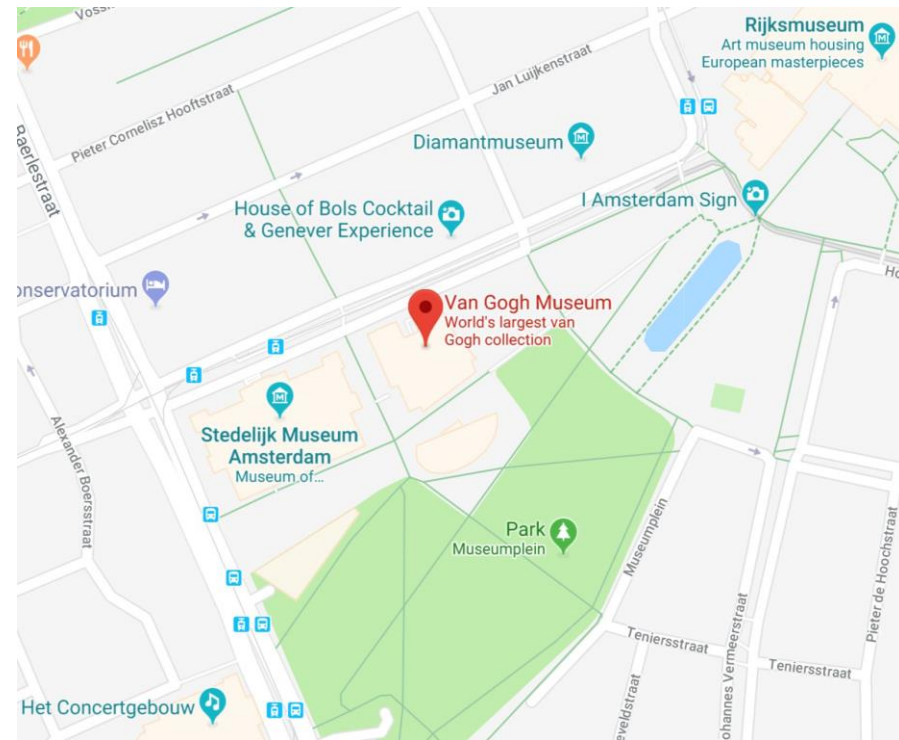
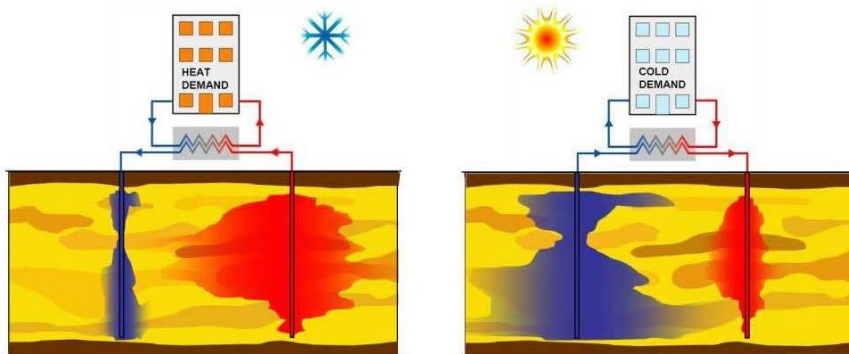
Distributed Optimization and Control for Large-Scale Energy Infrastructure



- Decision-making under uncertainty
- Privacy-aware distributed control and optimization
- Monitoring and fault detection
- Seasonal thermal storage
- Building climate control
- Power-to-X

Use-Case Example

- Advanced data-driven control methods for efficient use of seasonal thermal energy storage in the Van Gogh Museum
- Cooperative control for subsurface heat exchange among large buildings near the Museumplein, Amsterdam



Partners



Tauw



(3mE, TBM, CiTG)

