

## Thursday 6th March

09:30	Coffee	
10:00	Welcome	Prof Jan Carmeliet
10:15	Introductions	All
	<b>Session: Design optimisation</b>	
10:30	Considerations regarding optimization of dynamic facades for improved energy performance and visual comfort	Dr Roel Loonen
10:45	The route to an ideal adaptive glazing facade	Fabio Favoino
11:00	Exploratory computational tools for holistic building design and optimisation	James Ramsden
11:15	Optimal design and control of technical building systems	Prof Cheol-Soo Park
11:30	Interactions between different levels of the building system to be optimised	Dr Ralph Evins
11:45	<i>Discussion</i>	
<b>12:00</b>	<b>Keynote: The model-based optimization of buildings - an optimization workflow and reflection on the state-of-the-art</b>	<b>Prof Jonathan Wright</b>

13:00	Lunch (Dozentenfoyer)	
	<b>Session: Control optimisation</b>	
14:00	Modeling, identification and control of building thermal systems	Prof Roy Smith
14:15	Simultaneous optimal design and control of future building energy systems under various pricing systems and governmental directives	Araz Ashouri
14:30	A tool chain for constructing reduced order building models using modelica	Filip Jorissen
14:45	Benchmark and competition for climate control algorithms of office buildings	Damien Picard
15:00	Lessons learned from modelling and control of hybrid GCHP systems for energy use minimization	Ercan Atam
15:15	<i>Discussion</i>	
15:30	Coffee	
	<b>Session: Multi-objective optimisation</b>	
16:00	Combining simulation and optimisation for maximum building performance	Prof Kai Siren
16:15	Pareto optimization and aggregation: a new approach to integrate optimization with user criteria in BPS	Dr Christina Hopfe
16:30	Multi-objective optimisation to simultaneously address energy hub sizing and scheduling using a linear formulation	Georgios Mavromatidis
16:45	Implementations of the Multi-Objective Building Performance Optimization Software MOBO	Dr Ala Hasan
17:00	<i>Discussion</i>	
17:15	<i>Discussion summarising the day: how design meets control</i>	

19:30	Workshop dinner (Brasserie Schiller)	
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## Friday 7th March

	<b>Session: District-level optimisation</b>	
09:00	District-scale energy optimization	Dr Ruchi Choudhary
09:15	Optimized renewable energy integration at neighborhood scale	Dr Kristina Orehounig
09:30	District heating and cooling with low temperature networks - sketch of an optimization problem	Florian Ruesch
09:45	Optimisation methods for the design of integrated urban energy systems	Prof François Maréchal
10:00	Proposition on how to integrate technical uncertainties into the design of district energy systems	Jakob Rager
10:15	<i>Discussion</i>	
10:30	Coffee	
	<b>Session: System optimisation</b>	
11:00	Optimal design of HVAC systems as part of the future energy system	Dieter Patteeuw
11:15	Exploring the potential of buildings in Switzerland ancillary service market	Evangelos Vrettos
11:30	Population of thermostatically controlled loads for the Swiss ancillary service market	Dr Maryam Kamgarpour
11:45	<i>Discussion</i>	
<b>12:00</b>	<b>Keynote: Advanced control for energy efficient buildings: challenges and opportunities</b>	<b>Prof Francesco Borrelli</b>

13:00	Lunch (Dozentenfoyer)	
14:00	<i>Discussion: A Horizon 2020 project</i>	<i>Chair: Prof Kai Siren</i>
14:30	<i>Concluding discussion: current position and future directions...</i>	<i>All</i>
15:30	Coffee	