

Scientific Network Regulation of Mobile Robots using MPC Beyond Set Point Stabilization

Meeting from the **4th until the 6th of September**
at Chalmers University of Technology, Gothenburg, Sweden

Organizers:

Boris Houska

Karl Worthmann

Mario Zanon



(Shanghai Tech, China)



(TU Ilmenau, Germany)



(Chalmers University of
Technology, Sweden)

Confirmed participants:

- Boris Houska (Shanghai Tech, China)
- Pontus Giselsson (Lund U)
- Mohamed W. Mehrez Said (Memorial U Newfoundland)
- Jürgen Pannek (U Bremen)
- Marleen Stieler (U Bayreuth)
- Mario Zanon (Chalmers University of Technology, Sweden)
- Timm Faulwasser (KIT)
- Sergio Lucia (OvGU Magdeburg)
- Matthias A. Müller (U Stuttgart)
- Moritz Schulze Darup (U Paderborn)
- Karl Worthmann (TU Ilmenau, Germany)

Unfortunately not available:

- Philipp Braun (U Newcastle)
- Sina Ober-Blöbaum (U Oxford)
- Melanie Zeilinger (ETH Zürich).

Accommodation: Hotel Poseidon (<http://www.hotelposeidon.com/>)



Program

Sunday, the 3th of September 2017

20:30	Pre-booked table at the restaurant Smaka , which is just in front of the hotel. http://www.smaka.se/eng_meny.html
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Monday, the 4th of September 2017

09:30	<p>Pick up on Monday morning at 9:30. Then we will take bus 16 or 19 going uphill. All information about public transport can be found at http://www.vasttrafik.se/#!/en/ (app is available for planning).</p> <p>The entrance of the Department is here: https://goo.gl/maps/osUM7b8jqKv Mario's office is located at the floor 5Ö, on the right side of the corridor. Mario's phone numbers:</p> <div style="text-align: right; margin-left: 200px;"> Sweden: +46 737 208292 Germany: +49 1575 6296036 Italy: +39 349 5619005 </div>	
10:00 – 10:20	Introductory Talk: Chalmers University of Technology <i>Room 3311 (Lunnerummet)</i>	
10:20 – 10:40	Welcome by the organizers	
10:40 – 11:20	Marleen Stieler:	Happiness for everyone: Can we always expect a bounded performance in multiobjective MPC?
11:20 – 12:00	Pontus Giselsson	
12:00 – 13:15	<i>lunch</i>	
13:15 – 15:45	5 meetings of 30 minutes each <i>additional Room 3364 (EDIT rummet)</i>	
15:45 – 16:00	<i>coffee break</i>	
16:00 – 17:05	Official talks for the department	
	Karl Worthmann (25 minutes)	Set Point Stabilization & Path Following
	Boris Houska (40 minutes)	Set Based Computing Methods in Optimization and Control
17:05 – 17:25	<i>coffee break</i>	
17:25 – 18:30	Official talks for the department	
	Timm Faulwasser (25 minutes)	Beyond Set Point Stabilization
	Sergio Lucia (40 minutes)	
20:00	<i>official dinner at Ölrepubliken www.olrepubliken.se</i> members of the department are welcome	

Tuesday, the 5th of September 2017

09:00 – 09:45	Moritz Schulze Darup	
09:45 – 10:30	Mario Zanon	
10:30 – 11:00	<i>coffee break</i>	
11:00 – 12:40	Speed dating with members of the department 4 meetings of 20 + 5 (swapping rooms) minutes each Mario sets up an official schedule until the 4 th of September 2017	
12:40 – 14:00	<i>lunch</i>	
14:00 – 17:00	Talks, which are open to the department (25 + 5 minutes each)	
	Jürgen Pannek	Predictive Capacity and Lead Time Control for Multi-Product Job Shop Systems with Reconfigurable Machine Tools
	Mohamed W.M. Said	Occupancy Grid based Distributed MPC for Mobile Robots
		Talk given by a member of the department
	Coffee break	
	Matthias A. Müller	Distributed model predictive control: handling inexact optimization
	Talk given by a member of the department	
17:00 – 18:30	2 meeting of 30 minutes each	
20:00	<i>internal dinner at Heaven 23</i> www.heaven23.se	

Wednesday, the 6th of September 2017

09:00 – 10:00	Discussion on the meeting + other stuff
10:00 – 11:30	3 slots of 30 minutes each
11:30 – 12:00	<i>coffee break</i>
12:00 – 13:00	Discussion on the meeting + other stuff
20:00	<i>Dinner at The Barn</i> http://www.thebarn.se

Directions from the airport to the hotel



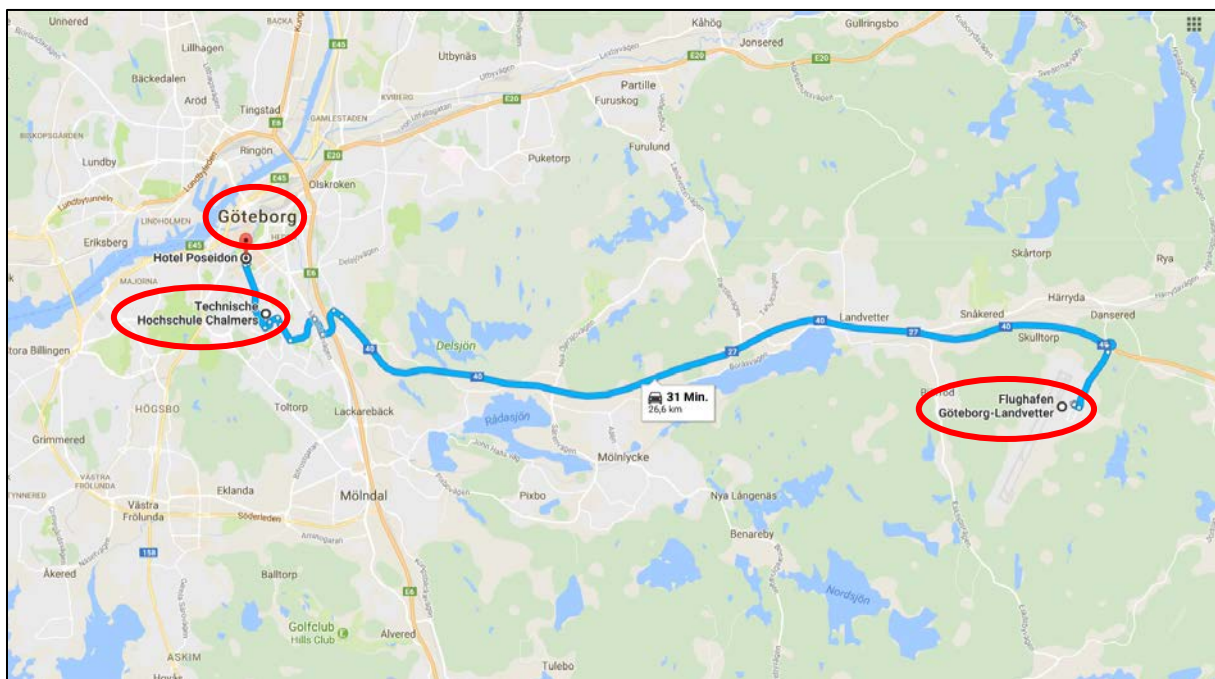
Flughafen Göteborg-Landvetter
438 80 Landvetter, Schweden



Hotel Poseidon
Storgatan 33, 411 38 Göteborg

For going from the airport to the city centre, the easiest way is to take the airport bus, all info is available at www.flygbussarna.se, where you can also buy the tickets in advance.

For reaching the hotel it's probably best to get off at Kungsporsplatsen (3rd stop) and either walk 600 m: <https://goo.gl/maps/dTdJKJEiJGx> or take tram number 2,3,7 or 10 until Vasaplatsen and walk from there <https://goo.gl/maps/kZxoDdFA7xq>



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