

2-Day Course 2014

ROBUST OPTIMAL CONTROL

Lehrstuhl für Systemtheorie,

Regelungstechnik und Optimierung

Institut für Mikrosystemtechnik (IMTEK)

Albert-Ludwigs-Universität Freiburg

Georges-Köhler-Allee 102

79110 Freiburg

Germany

# Public Transportation

Public transportation in Freiburg is all run by VAG (Freiburger Verkehrs AG). The tram, bus, and subway system all have the same tickets. A one-way ticket within the city costs 2,20 EU. A cheaper option if you are planning on taking multiple trips is to buy 2x4-FahrtenKarte. This costs 15,90 EU and gives you 2 tickets with 4 rides possible on each. Tickets can be bought on buses, or at ticket machines around the city.

# Internet

You can access the internet via eduroam if you have a password. For those who do not have eduroam, individual passwords will be distributed.

# Eating out

On Wednesday and Thursday (Sep 3 & 4) we have booked tables at the Solar Center, where everyone can have lunch at own cost. The menu changes daily but there are usually two warm menus as well as a salad bar and sweets for 5 - 10 Euro per meal.

# Contact information

Should you encounter any problems please feel free to contact:

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|  | | **Wednesday 03.09** | | |
| 9:00 – 9:10 | | Introduction | | |
| 9:10 – 10:05 | | Convex Robust Optimization | | |
| 10:05 – 11:00 | | Nonlinear Min-Max Optimization | | |
| 11:00 – 11:30 | | Coffee Break | | |
| 11:30 – 12:30 | | Approximate Robust Optimal Control | | |
| 12:30-14:00 | | Lunch Break | | |
| 14:00 – 14:30 | | Interval Calculus | | |
| 14:30 – 15:30 | | ODE Integration (Mario Villanueva) | | |
| 15:30 – 16:00 | | Coffee Break | | |
| 16:00 – 17:00 | | MC++ Exercise | | |
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# Schedule

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|  | **Thursday 04.09** |
| 9:00 – 10:30 | CVXPY Course (Steven Diamond) |
| 10:30 – 11:00 | Coffee Break |
| 11:00 – 12:00 | Exercises on Robust Optimal Control |
| 12:00 – 12:30 | Global Optimization |
| 12:30 – 14:00 | Lunch Break |
| 14:00 – 15:00 | Branch and Lift Methods |
| 15:00 – 15:30 | Coffee Break |
| 15:30 – 16:00 | Wrap up/Discussion |
| 16:15 | End |

# List of Participants

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