

Schedule of the EECI Graduate School on Learning-based Model Predictive Control

|             | 26-06-23                           | 27-06-23   | 28-06-23                                      | 29-06-23                       | 30-06-23                                |
|-------------|------------------------------------|--|---|--------------------------------|---|
| Zurich Time | Monday                             | Tuesday  | Wednesday                                     | Thursday                       | Friday                                  |
| 09:00-10:30 |                                    | Overview Learning-based MPC & Performance Learning MPC | Stochastic Model Predictive Control           | Stochastic model learning      | Advanced topics and research directions |
| 10:30-11:00 |                                    | BREAK  | BREAK   | BREAK                          | BREAK                                   |
| 11:00-12:30 |                                    | Introduction to set membership estimation              | Stochastic MPC based on scenario optimization | Invariance-based safe learning | Quiz                                    |
| 12:30-13:30 |                                    | LUNCH  | LUNCH   | LUNCH                          | Conclusions & Discussion                |
| 13:30-14:00 | Registration / Opening             |  |   |                                |   |
| 14:00-15:30 | Introduction & Fundamentals of MPC | Adaptive MPC via on-line set membership identification | Stochastic MPC based on scenario optimization | Predictive safety filter       |   |
| 15:30-16:00 | BREAK                              | BREAK  | BREAK   | BREAK                          |   |
| 16:00-17:30 | Fundamentals of MPC                | Adaptive MPC via on-line set membership identification |   | Predictive safety filter       |   |