

DISC School on
**Control of Discrete-Event Systems:
Automata and Petri nets perspectives**

Monday June 6

- 9.00–9.30 Introduction
- 9.30–10.15 Modeling by automata – 1, *Joerg Raish*
- 10.30–11.15 Modeling by automata – 2, *Joerg Raish*
- 11.15–11.45 *Coffee Break*
- 11.45–13.00 Introduction to Petri nets, *Manuel Silva* and *Jose Manuel Colom*
- 13.00–15.00 *Lunch*
- 15.00–15.45 Reachability and languages in automata, *Stefan Haar*
- 16.00–16.45 Decidability and complexity, *Stefan Haar*
- 17.00–18.30 Presentations by participants

Tuesday June 7

- 9.00–9.45 Reachability and languages in Petri nets, *Alessandro Giua*
- 10.00–10.45 Supervisory control with complete observation, *Jan H. van Schuppen*
- 10.45–11.15 *Coffee Break*
- 11.15–12.00 Supervisory control with partial observation, *Jan Komenda*
- 12.15–13.00 Supervisory control with Petri nets, *Alessandro Giua*
- 13.00–15.00 *Lunch*
- 15.00–15.45 Observability of Petri nets, *Carla Seatzu*
- 16.00–18.00 Tool Session – 1

Wednesday June 8

- 9.00–9.45 Observers and diagnosis of monolithic systems using automata, *Eric Fabre*
- 10.00–10.45 Observers and diagnosis of distributed systems using automata, *Eric Fabre*
- 10.45–11.15 *Coffee Break*
- 11.15–12.00 DES in a Dioid Framework – Modelling and Analysis, *Joerg Raisch*
- 12.15–13.00 DES in a Dioid Framework – Control, *Olivier Boutin*
- 13.00–14.00 *Lunch*
- 14.00–14.45 Fluid Petri nets, *Manuel Silva*
- 15.00–16.00 Presentations by participants
- 16.00–22.30 *Socio-cultural activity and social dinner*

Thursday June 9

- 9.00–9.45 Observability and observers of fluid Petri nets, *Cristian Mahulea*
- 10.00–10.45 Time and timed Petri nets, *Serge Haddad*
- 10.45–11.15 *Coffee Break*
- 11.15–12.00 Diagnosis of Petri nets, *Rene Boel*
- 12.15–13.00 Distributed and coordination control on automata, *Jan Komenda and Jan van Schuppen*
- 13.00–15.00 *Lunch*
- 15.00–15.45 Control of distributed systems with communications, *Laurie Ricker*
- 16.00–18.00 Tool Session – 2

Friday June 10

- 9.00–9.45 Relationships between timed automata and timed Petri nets, *Serge Haddad*
- 10.00–10.45 Case study 1: Diagnosis of automotive systems, *Maria Paola Cabasino*
- 10.45–11.15 *Coffee Break*
- 11.15–12.00 Controllability and control of fluid Petri nets, *Jorge Julvez*
- 12.15–13.00 Case study 2: hybrid automata for traffic modeling, *Rene Boel*
- 13.00–15.00 *Lunch*
- 15.00–16.30 Tool Session – 3
- 16.45–18.30 Presentations by participants