

# 2025 IEEE RAS SUMMER SCHOOL ON MULTI-ROBOT SYSTEMS

## 2025 IEEE RAS Summer School on Multi-Robot Systems PROGRAM

### Final simplified version

The program is scheduled in the CEST time zone.

**30.7.2025 Wednesday**

**Venue: Technicka 2, Praha - Dejvice**

08:15 - 09:00	Registration ( <i>for later coming possible during the day</i> )
09:00 - 09:45	<b>Martin Saska</b> - Welcome and Organizational Details; MRS Group Introduction
09:45 - 10:15	Coffee Break
10:15 - 11:45	<b>Martin Saska</b> - Research of Groups of Aerial Robots at CTU in Prague
11:45 - 12:00	Grouping & Leader Briefing
12:00 - 13:00	Lunch
13:00 - 14:15	<b>Tomáš Báča</b> - Introduction into MRS System in ROS
	<b>Tim Lakemann, Swati Dantu, Martin Jiroušek</b> - Practical Seminar Task Introduction
14:15 - 15:45	<b>Sabine Hauert</b> - Breaking Swarm Stereotypes: Towards Making Swarms for People
15:45 - 16:15	Coffee Break
16:15 - 17:45	<b>Bruno Siciliano</b> : From Dynamic Manipulation to Legged Robotics
17:45 - 19:30	<b>Workshop</b> (discussion and networking in topic-oriented subgroups)
19:30 - 22:00	<b>Social program</b> : Welcome Party



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## 31.7. Thursday

Venue: Technicka 2, Praha - Dejvice

08:30 - 08:45	Registration ( <i>for later coming</i> )	
08:45 - 09:30	<b>Johannes Betz</b> - Interactive Motion Planning for Multi-Robot Autonomous Racing Systems Part I	
09:30 - 10:00	Coffee Break	
10:00 - 11:00	<b>Johannes Betz</b> - Interactive Motion Planning for Multi-Robot Autonomous Racing Systems Part II	
<b>GROUP I</b>	11:00 - 12:00	Lunch
	12:00 - 13:00	Free Time & Networking with Beer
	13:00 - 15:00	<b>Practical in PC lab</b>
<b>GROUP II</b>	11:00 - 13:00	<b>Practical in PC lab</b>
	13:00 - 14:00	Lunch
	14:00 - 15:00	Free Time & Networking with Beer
15:30 - 16:30	<b>Dusan Stipanovic</b> - Multi-Objective Control with Guaranteed Collision Avoidance for Multi-Vehicle Systems	
16:30 - 17:00	Coffee break	
17:00 - 18:00	<b>Dusan Stipanovic</b> - Multi-Objective Control with Guaranteed Collision Avoidance for Multi-Vehicle Systems	
19:00-21:00 -	<b>Gala Dinner &amp; Testbed Tour</b>	
	<b>Location: CIIRC CTU</b> (Jugoslávských partyzánů 1580/3, Prague)	
	Join us for a gala dinner accompanied by a guided tour of the unique Testbed for Industry 4.0 – the largest research and experimental facility of its kind in Central and Eastern Europe. Discover cutting-edge technologies for smart manufacturing and fully integrated industrial processes developed within the RICAIP Centre of Excellence.	

# 2025 IEEE RAS SUMMER SCHOOL ON MULTI-ROBOT SYSTEMS

## 1.8. Friday

Venue: Technicka 2, Praha - Dejvice

08:45 - 09:00	Registration (for later coming)	
09:00 - 10:00	<b>Iain Couzin</b> - Geometric Principles for Highly-Effective Decision-Making in Animals and Robots Part I	
10:00 - 10:30	Coffee break	
10:30 - 11:30	<b>Iain Couzin</b> - Geometric Principles for Highly-Effective Decision-Making in Animals and Robots Part II	
<b>GROUP I</b>	11:30 - 12:15	Lunch
	12:15 - 13:00	Free Time & Networking with Beer
	13:00 - 14:30	<b>Practical in PC lab</b>
<b>GROUP II</b>	11:30 - 13:00	<b>Practical in PC lab</b>
	13:00 - 13:45	Lunch
	13:45 - 14:30	Free Time & Networking with Beer
14:30 - 15:30	<b>Daniel Heřt, Jan Bednář</b> - TBD	
15:30 - 16:30	<b>Alessandro Farinelli</b> - Decentralized Coordination for Multi-Robot Systems	
16:30 - 17:00	Coffee Break	
17:00 - 18:00	<b>Alessandro Farinelli</b> - Decentralized Coordination for Multi-Robot Systems	
19:00 - 21:00	<b>Evening Activity: Guided Tour / Beer Tour</b> Choose between a guided walk through Prague's top sights (e.g. Charles Bridge, Prague Castle) with a professional guide, or a casual Czech Beer Tour with local hosts (MRS CTU / Fly4Future) - includes 2 beers.	

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## 4.8. Monday

Venue: Karlovo namesti 13, Praha 2, Building E

08:45 - 09:00	Registration (for later coming)	
<b>GROUP I</b>	09:00 - 11:00	Lab Tour
	10:30 - 11:00	Coffee Break
	11:00 - 13:00	<b>Practical in PC Lab</b>
<b>GROUP II</b>	09:00 - 11:00	<b>Practical in PC Lab</b>
	10:30 - 11:00	Coffee Break
	11:00 - 13:00	Lab Tour!
13:00 - 13:45	Lunch	
13:45 - 15:45	<b>Students Presentations</b>	
15:45 - 16:15	Coffee Break	
16:15 - 17:15	<b>Briefing on the Experimental Part, Organisational Details, Safety Instructions</b>	
17:30 - 18:30	<b>Site Visit (Optional): Fly4Future &amp; Eagle.One</b>	

## 5.8. Tuesday

Venue: Císařský ostrov, GPS coordinates: 50.111541, 14.418615

09:00-17:00	<b>Outdoor Experiments with Awards Announcement</b>
11:00-15:00	<b>Outdoor Lunch</b> Lunch will be served continuously between 11:00 and 15:00 in an outdoor setting. Drop by anytime!