AirMetro
Research Training Group
2947 at TU Dresden

Monitoring, Security, and Situational Awareness for Advanced Air Mobility (AAM)

Summer School 2025 Schedule

26.-28. May 2025 | Geierswalde/Kamenz

Monday, May 26th

08:30 09:00	Welcome & Coffee
09:00 09:10	Scope of the Summer School
09:10 09:30	Overview RTG Cluster Topic C
09:30 10:15	Leonard Bauersfeld *Vision Based Flight and event cameras for robotics*
10:15 10:35	Florian Helm *How To: UAV Flight Experiment in Kamenz*
10:35 11:00	*Coffee Break*
11:00 11:45	Milan Topp *XR Digilab, Unmanned Traffic Management Hamburg, BLU-Space*
11:45 12:30	Janna Little *Research Data Manager RTG AirMetro*
12:30 13:30	*Lunch*
13:30 14:00	Panel Discussion
14:00 14:30	Vahid Noroozi *Traffic Survey: Methodology and Early Insights*
14:30 16:30	Harald Pfifer *Practical exercises drone flight controller + tuning*
19:00 21:00	*AirMetro BBQ*

Tuesday, May 27th

08:15 09:00	Transfer Geierswalde - Airfield Kamenz
09:00 09:45	Peter Pfeifer *Introduction to the Kamenz test field*
09:45 12:30	On Site Experiments I *C172 Aircraft Setup & Role in Tests for Project Air-Take-Off* *Drone Dry & Flight Tests (Data reception, ground station connectivity, UAV tracking capability of the remote identification system)* *Discussion: Anti-Collision Strategies (Crewed & uncrewed aircraft)*
12:30 13:30	*Lunch*
13:30 14:00	Discussion
14:00 17:00	On Site Experiments II *Intro to BVLOS, Regulations & Flight Hangar (AEF & Vodafone Chair, network measurement equipment)* *BVLOS Flight Tests & Data Collection (Mission planning, network quality at different altitudes/routes)* *Data Analysis: Network Coverage*
17:00 17:45	Transfer Airfield Kamenz - Geierswalde
19:00 20:30	*Dinner*

Wednesday, May 28th

09:00 09:45	Overview RTG Cluster Topic A and B
09:45 10:30	Eike Stumpf *Engineering perspectives on aircraft design, aerodynamics, and energy efficiency*
10:45 11:15	*Coffee Break*
11:15 12:00	Aamir Ahmad *Approaches for cooperative drone fleets, swarms, and decentralized control in AAM*
12:00 12:45	Panel Discussion
12:45 13:45	*Lunch*
13:45 14:45	Open Discussion PIs, Guests
14:45 15:00	Summary - Wrap-up
15:00 15:30	Transfer Geierswalde - SML Schwarzkollm
15:30 16:15	SML Construction field Visit
16:15 17:15	Transfer Schwarzkollm - Dresden

Cluster A: Infrastructure, Cost and Network
Cluster B: Safety and Path Planning
Cluster C: Technological Infrastructure (CNS)