

DELTA Winter school on Dependable Intelligent Mobile Systems

12-14.2.2024 Ruka Finland

Lectures and catering in Scandic Ruka. 2 credits on PhD study level available against an accepted learning diary.

Monday

- 9:00-9:15 **Riku Jäntti, Aalto:** Opening
- 9:15-10:00 **Aleksandr Ometov, TAU:** Interplay of humans, security and privacy
- 10:00-10:30 Coffee break
- 10:30-11:15 **Tanesh Kumar, Aalto:** An overview of key security enabling technologies for 6G communication networks
- 11:15-12:00 **Reino Virrankoski, Aalto:** Performance Requirements for Dependable Intelligent Mobile Systems
- 12:00-16:00 Lunch + Ski break
- 16:00-16:45 **Simona Lohan, TAU:** Seamless navigation for intelligent mobile systems
- 16:45-17:00 Coffee break
- 17:00-18:30 **Simona Lohan, TAU:** Seamless navigation for intelligent mobile systems
- 19:00-21:00 Dinner at **RukaPizzeria**

Tuesday

- 9:15-10:00 **Timo Lind, VTT:** The Concept of U-Space: Current State of the Art and Future Views
- 10:00-10:30 Coffee break
- 10:30-11:15 **Ilkka Kansala, Nokia:** Nokia drone systems
- 11:15-12:00 **Jouko Kinnari, Aalto:** Visual localization for GNSS-independent UAV operation
- 12:00-16:00 Lunch + Ski break
- 16:00-16:45 **Dang Yongchao, Aalto:** GPS Spoofing detection and mitigation for cellular connected drones
- 16:45-17:00 Coffee break
- 17:00-17:45 **Dang Yongchao, Aalto:** GPS Spoofing detection and mitigation for cellular connected drones
- 17:45-18:30 **Risto Ojala, Aalto:** Alex: Aalto's automated vehicle based on Autoware
- 19:30-22:00 Dinner at **Royal Ruka** restaurant (2 km walk)

Wednesday

- 9:15-10:00 **Petri Välisuo, UWASA:** Robust state estimation using Factor Graphs applied to positioning
- 10:00-10:15 Coffee break
- 10:15-11:00 **Petri Välisuo, UWASA:** Robust state estimation using Factor Graphs applied to positioning
- 11:00-12:00 Closing, check-out and lunch
(12:00 bus to airport leaves)

Travel to Ruka:

There are several flights daily between Helsinki-Vantaa and Kuusamo airport. There is a public bus service between the airport and Ruka village, leaving from the airport after the plane arrival and from Ruka village 2h before the flight departure time.

Accommodation for winter school attendees:

There is a participation package available for *DELTA PhD students*, including accommodation in shared 3-4 person apartments with sauna (RukaSuites), in addition to the lectures and social program.

For *non-students* or *non-DELTA students*, there is a package without pre-arranged accommodation, so the accommodation must be reserved separately from open market.

For *lecturers*, accommodation is pre-arranged automatically at RukaVillage hotel by registration.