DELTA/MiFuture Winter School on "*Future generation wireless networks, standards evolution and 6G vision"*

8.-10.2.2027 Ruka Finland

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

Monday 8 Feb

8:00-9:00 Breakfast at Scandic Rukahovi
9:00-9:30 Opening, introduction of DELTA and MiFuture networks – Jari and Ana
9:30-10:15 Lecture 45 minutes, Prof. Ertugrul Basar, TAU part 1 of "Enabling technologies for 6G and beyond"
10:15-10:30 Coffee break
10:30-11:15 Lecture 45 minutes, Prof. Ertugrul Basar, TAU, part 2 of "Enabling technologies for 6G and beyond"
11:15-12:00 Lecture 45 minutes, Prof. Ertugrul Basar, TAU, part 3 of "Enabling technologies for 6G and beyond"

12:00-16:00 Lunch + Ski break

16:00-16:45 Lecture 45 minutes, Prof. Visa Koivunen, Aalto, part 1 of "ISAC in 6G" (from the 6G and radar sensing point of view and related MIMO-multicarrier signal processing both in monostatic and distributed settings)
16:45-17:00 Coffee break
17:00-17:45 Lecture 45 minutes, Prof. Visa Koivunen, Aalto, part 2 of "ISAC in 6G"
17:45-18:30 Lecture 45 minutes, Prof. Visa Koivunen, Aalto, part 3 of "ISAC in 6G"

19:00-21:00 Dinner at ***RukaPizzeria***

Tuesday 9 Feb

8:00-9:00 Breakfast at Scandic Rukahovi
9:15-10:00 Lecture 45 minutes, Dr. Julia Equi, Ericsson, part 1 of ``6G use cases and architectures from standardization perspective'' (including AI/ML and sensing)
10:00-10:30 Coffee break
10:30-11:15 Lecture 45 minutes, Dr. Julia Equi, Ericsson, part 2 of ``6G use cases and architectures from standardization perspective'' (including AI/ML and sensing)
11:15-12:00 Lecture 45 minutes, Dr. Niloofar Okati, Nokia Bell Labs, part 1, "LEO-based PNT and its role in GNSS resilience and future 6G systems"

12:00-16:00 Luch + Ski break

16:00-16:45 Lecture 45 minutes, Dr. Niloofar Okati, Nokia Bell Labs, part 2, "LEO-based PNT and its role in GNSS resilience and future 6G systems"
16:45-17:00 Coffee break
17:00-17:45 Lecture 45 minutes, Prof. Rui Dinis, IT, part 1, "Frequency domain detection algorithms for future wireless systems"
17:45-18:30 Lecture 45 minutes, Prof. Rui Dinis, IT, part 2, "Frequency domain detection algorithms for future wireless systems"

19:30-22:00 Dinner at ***Royal Ruka*** restaurant (2 km walk)

Wednesday 10 Feb

8:00-9:00 Breakfast at Scandic Rukahovi
9:15-10:00 Lecture 45 minutes, Dr. Ossi Kaltiokallio, TAU, part 1 of "Radio SLAM"
10:00-10:30 Coffee break

10:30-11:15 Lecture 45 minutes, Dr. Ossi Kaltiokallio, TAU, part 2 of “Radio SLAM”
11:15-12:00 Lecture 45 minutes, Dr. Ossi Kaltiokallio, TAU, part 3 of “Radio SLAM”

12:00-16:00 Luch + Ski break

16:00-16:45 Lecture 45 minutes, Prof. Ana Armada, UC3M, part 1 of “Women in Communications engineering - some experiences”
16:45-17:00 Coffee break
17:00-17:45 Lecture 45 minutes, Prof. Ana Armada, UC3M, part 2 of “Women in Communications engineering - some experiences”
17:45-18:30 Final exam/quiz (45’), chair Prof. Simona Lohan

19:00-21:00 Dinner at t.b.d.

Thursday 11 Feb
7:00-9:00 Breakfast at Scandic Rukahovi

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. You can pay to the driver using a credit card or reserve the transport beforehand in the web.

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

For *lecturers*, there are participation packages, including accommodation in single or double rooms with sauna (RukaVillage hotel).

For others (*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 all participants, there is breakfast included from Monday to Wednesday at the Scandic Rukahovi hotel where the lecture program will take place. For the people in the pre-arranged accommodation, there will be also breakfast on Thursday morning in the same place.