

MONDAY 20 AUGUST - FRIDAY 24 AUGUST 2018

Ray-Tracing based channel modeling and its application to mobile communication

VISITING LECTURER:

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The application scenarios and requirements are more diverse in the fifth-generation (5G) era than before. In order to successfully support the system design and deployment, accurate channel modeling is important. Ray-tracing (RT) based deterministic modeling approach is accurate with detailed angular information and is a suitable candidate for predicting time-varying channel and multiple-input multiple-output (MIMO) channel for various frequency bands. The computational complexity and utility are the main concerns of users.



- **Ray tracing technologies with special attention to 5G applications and future prospects**
- **A high-performance computing (HPC) cloud-based ray-tracing simulation platform (CloudRT)**
- **Development experiences**

OBJECTIVES OF THE COURSE:

To learn the the principle of ray-tracing based channel modeling and how to use RT to simulate propagation channel for mobile communication scenarios as well as get inspiration on developing new RT algorithms and doing research on radio propagation.

COURSE SCHEDULE: www oulu.fi/cwc/ray

Location: Lecture Hall TS 137, University of Oulu, Linnanmaa, Tietotalo, Entrance E

Intensive Course funded by:
University of Oulu, Information Technology and
Electrical Engineering Doctoral Programme

Hosted by:
Centre for Wireless Communications

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More information
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