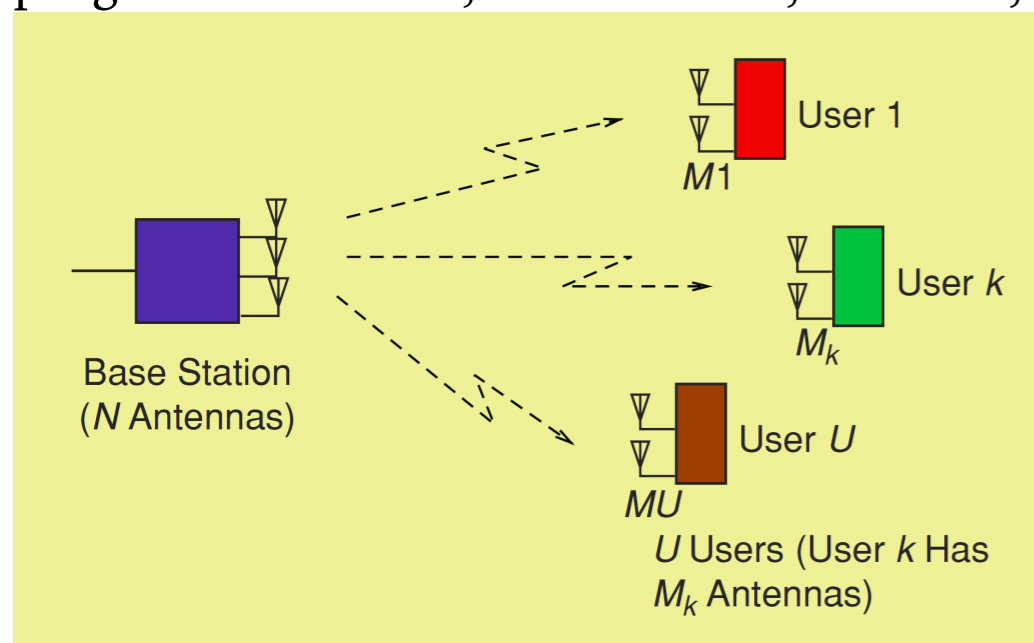


Information theory II (18-pe-2010-vI)



Prof. Marius Pesavento

Information theory II is offered by the communication System group (Prof. Pesavento) , for the students with the master programs MSc ETiT, MSc Wi-ETiT, MSc iCE, MSc CE. This lecture course is devoted to advances of network information theory.



Outline: overview of Shannon capacity, outage and ergodic capacity, capacity of channels with state, capacity of Gaussian vector channels, capacity regions of multi-user channels, capacity regions of multiple-access and broadcast fading channels, interference channel, relay channel, multiuser bounds, multiuser diversity., wiretap channel, secrecy rate and physical layer security.

- Offered every summer and winter semester
- Language of instruction - English
- The final exam is written (closed-book).

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