



Technical University of Cluj-Napoca
Cellular and Wireless Research Group
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Research Topics:

Propagation and channel modelling for:

- cellular and wireless networks (indoor and outdoor)
- satellite communications
- fixed terrestrial microwave links
- wireless sensors systems
- HF radio networks

Comments :

Studies and researches on MIMO techniques

Studies on cognitive radio systems and adaptive mechanisms to improve the transmission efficiency



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Research Topics:

Development of low-cost prototype weak radio signal monitors for ionospheric disturbances analysis

Acquisition of ionospheric radio propagation data sets and analysis

Comments :

We are developing passive radio monitors.

Actually, we are monitoring solar flares induced disturbances in the low ionospheric layers. Covered radio frequencies (actually): few Hz to few tens of MHz. The frequency range of our monitors can be extended for transionospheric experiments (SatCom).