

Microwave Communications Group

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Director:

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PhD Candidates

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Current Projects and Research Activity

Projects

- “mBioRF. Multilevel assessment on Biological effects of RadioFrequency electromagnetic waves,” **Budget €600000, 1/2/2012-30/9/2015.** (www.mbiorf-project.eu)
- “microDiagnosis Microwave-based diagnosis for pneumothorax and detection of air cavities in body,” **Budget €150000, 15/6/2012-14/6/2015** (www.micro-pneumothorax.ece.upatras.gr)
- “MIMO Techniques for SATellite and Stratospheric Communication Systems: Network of Excellence (MIMOSA)”, **1/2/2012-30/9/2015**
- Participating in COST IC1102 Versatile, Integrated, and Signal-aware Technologies for Antennas (VISTA). **12/2011-09/2015**

Research Activity

- Effects of Electromagnetic Fields on Humans – Dossimetry
- Design and Development of on-body and in-body antennas/sensors, telemetry, wireless charging, etc.
- Development on non-invasive diagnostic techniques (e.g. development of sensor system for pneumothorax diagnosis)
- Non-Foster or active matching for antennas
- Modeling and analysis of Carbon Nano Tubes materials/mixtures for EMC applications, minimizing scattering etc.