

## CV of Wireless Telecommunications Laboratory (WTL)

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The Wireless Telecommunications Laboratory (WTL) is part of the Department of Electrical & Computer Engineering (ECE) of the University of Patras, Greece. The ECE Department was founded in 1967 and was the first Department of the School of Engineering, today it has more than fifty faculty members and is one of the most acclaimed and selective engineering departments in Greece. In the year 1970 was founded the WTL Laboratory. The WTL is located in the second floor of the new wing of the department of electrical & computer engineering and comprises of three full-time faculty members: Prof. Stavros Kotsopoulos who directs the academic and research activities of the WTL, Assistant Professor Dimitris Toumpakaris and the Lecturer Dr. Vassiliki Perraki. Moreover, Mrs Alexandra Balou serves as a technical staff the WTL. The activities of the WTL in the education and practice of the fourth and fifth year students, cover the scientific areas of "Radio Wave Propagation", "Antennae Theory", "Architectures and Protocols of Networks", "Mobile Communication Systems", "Information Theory" and the "Introduction in Communications". The WTL, for the teaching and research activities has the following equipment facilities: RF simulation software (antennae radiation patterns, GIS, RF Modeling), OPNET simulation software, Frequency generators (VHF to SHF), Field measurements devices for TV satellite signals, frequency meters and power meters, Field measurement device [(Rohde & Schwarz) for GSM 900/1800], Field measurement device [NARDA SRM 3006 for terrestrial cellular networks, frequency range from 75 MHz to 6 GHz], Microwave devices (Magic Tee, Directional Couplers and Isolators), Antennae (Parabolic, Dipoles, Yagi-Uda, Slot Antennae, Dielectric and Horn Antennae), Oscillators and Recording Systems, Depolarizers and Attenuators, Coaxial Cables and Waveguides, Slotted Lines and VSWR Meters, Low Noise Block Converters, Satellite TV Receiving System at 12 GHz, Frequency Spectrum Analyzers and GPS system.

The main research activities of the WTL include: Terrestrial and Satellite Wireless Systems, Channel Coding, RF modeling and Channel Characterization, Security Schemes, Multimedia coding and transmission over emerging wireless networks and technologies, cross layer design techniques and communication services.