

Politecnico di Torino - Maxwell Room
26 march 2019 - 17.30

Our PhD members explain to students, colleagues and professors...

Embedded Radar Prototyping for Collision Avoidance and Real-Time Localization



Mr. Stefano Bottigliero, PhD student, DET

The presentation exhibits my present and future work as Ph.D. student in the field of embedded radar system prototyping. The focus is on the design and prototyping of a collision avoidance system for Automated Guided Vehicles (AGV) based on a Time Of Flight sensor and of a Real Time Localization System (RTLS) based on Ultra Wide Band (UWB) signals. It is shown how these two systems can be used in an integrated Simultaneous Locating and Mapping (SLAM) system.

Combined microwave and Eliashberg analysis of the effects of disorder in Iron Based Superconductors

Mr. Daniele Torsello, PhD student, DISAT

In this seminar I will present a combined experimental and theoretical approach toward reaching new insights into the mechanisms of superconductivity through the analysis of the effects of disorder in Iron Based Superconductors (IBS). We investigate the critical temperature, penetration depth, quasiparticle conductivity and surface impedance of high-quality IBS single crystals by a planar waveguide resonator technique, in a cavity perturbation approach.

