UNIVERSITÀ DI PAVIA
Department of Electrical, Computer and Biomedical Engineering

NATIONAL PHD SCHOOL IN MICRO AND NANO ELECTRONICS

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April 19th, 4PM
Magenta Seminar Room
Dept. ECBE, D Floor

Industrial Topics in Microelectronics and Photonics - Seminars

77GHz Radar-on-chip: Enabling autonomous driving

Abstract: Automotive Radar System is undergoing a transformation following the overall car architecture evolution and driven by a market that is expected to grow significantly in the coming years.
After a quick overview of the FMCW radar fundamentals, we will address a simple system budgeting that will introduce us to the RF challenges for what concern Silicon design and package development.

Speaker: Mauro Giacomini (STMicroelectronics)

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Mauro Giacomini was born in 1970 in Mantova, Italy. He received the M.Sc. degree in Electronic Engineering (Microelectronics, Optoelectronics and Instrumentation) from Politecnico of Milan in 1995 (cum Laude). After an experience in the field of optical communication within CoreCom (consortium between Politecnico of Milan and Pirelli S.p.A.) he joined STMicroelectronics as Non-Volatile Memory designer in 1998. After three years he moved to Analog Design dealing with Data Converters, Voltage Regulators, Oscillators, PLLs and custom Analog Front-End, key IPs for the success of ST Automotive μController families from 90nm to 28nm technology nodes. He progressively acquired more responsibility unifying in 2018 in one unique organization all the analog developments and silicon validation functions (Analog, NVM & RF) to serve the Digital Automotive Product R&D