



UNIVERSITÀ  
DI PAVIA

NATIONAL PH.D. SCHOOL IN MICRO  
AND NANO ELECTRONICS

[phd-mne.unipv.it](http://phd-mne.unipv.it)



December 13<sup>th</sup>, 2023, 4PM  
Magenta Seminar Room  
Dept. ECBE, D Floor

*Industrial Topics in Microelectronics and Photonics - Seminars*

## Innovation in Smart Power products and applications

**Abstract:** The presentation goes through the evolution of the Smart Power technologies, from ICs integrating a few power functions for motor drive or DC/DC converters, to a huge number of HV drivers (up to 200V) for many actual application fields, as systems for medical imaging or MEMS actuator drivers. A special focus will be given to the analysis of the main design methodology, innovation, challenges and solutions implemented to reach the required performances.

**Speaker: Giulio Ricotti**



**Giulio Ricotti** after earning his Electronics Engineering degree, joined ST in 1994 as a design engineer in their Smart Power (SP) products group. Currently is Design Director and Company Fellow, he has more than 60 patents and has authored 70 publications. Giulio has also been awarded the “Premio dei Premi” in 2009 by the Italian president Giorgio Napolitano for his crucial contribution to innovation with the 4D ultrasound imaging project that is used today all over the world for pregnancy and cardiology screenings.