



Course ToM2024

September, 23rd-25th, 2024

Abstract:

The main aim of the XIX IEEE Topics on Microelectronics Course is improving the knowledge of the participants in the field of the Microelectronics design, facing different topics and from different perspectives as the microelectronics world is. This Course is then addressed to students (Master and PhD), researchers, designers. The Course is composed by five long talks/lectures (of three hours each, a sufficient time to give both overview and advanced details about the topic) given by academic professors or qualified experts coming from companies or research centers. The academic and industrial approaches for research and state-of-the art progress are then presented. Different topics are addressed in the Course. This is intentionally done to give a wide-spectrum for the audience about the present challenges in the microelectronics world.

Course Program

Monday, September, 23rd, 2024

14:00 - 17:30 *Matteo Pisati (Synopsys, Italy), "High Speed Serdes: Architecture Overview and Design Challenges"*

Tuesday, September, 24th, 2024

9:00 - 12:30 *Rinaldo Castello (Independent Consultant, Italy), "CMOS Buffer"*

14:00 - 17:30 *Marco Crescentini (University of Bologna, Italy), "Integrated Current Sensors: Hall-Effect Sensors in Power Electronics Applications"*

Wednesday, September, 25th, 2024

9:00 - 12:30 *Edoardo Bonizzoni (University of Pavia, Italy), "Integrated Circuits for Power Management: Overview, Challenges, and Recent Advances"*

14:00 - 17:30 *Valeria Vadalà (University of Milano Bicocca, Italy), "Advanced Modeling and Characterization Techniques Oriented to Microwave PA Design"*

Lectures will be held in Palazzo Vistarino - University of Pavia

Via Sant'Ennodio 26, 27100 Pavia, Italy

On-line registration at the website www.mbtechnoservices.com

Course Registration includes

- in-person attendance to all lectures
- lunches and coffee-breaks
- pdf material for all lectures
- certificate of participation
- final exam with certificate (for ECTS)