



ToM2026 Courses

Abstract.

On the occasion of the twentieth anniversary of the 'Topics on Microelectronics' Courses and in consideration of the collaboration with the National PhD Program in Nano and Microelectronics, the ChipsIt Foundation, and IEEE-SSCS Italy, this year the first course will be held in Torre dell'Orso, Puglia, in a setting designed to bring together instructors and participants in an environment of outstanding natural beauty. The second course will be held at the more familiar venue of the University of Milan-Bicocca.

For both courses, the format remains consistent, comprising 5 lessons of 3 hours each, delivered by recognized experts in the field of MicroElectronics from both academia and research, as well as from industry. Additionally, the courses are characterized by a strong multidisciplinary approach, due to the dense nature of the covered topics. This choice is motivated by the goal of providing an increasingly broad-based preparation for PhD students.

Finally, it is an honor to complement the first ToM course of the twentieth year with a lecture by Professor Pieter Harpe, who serves as a Distinguished Lecturer for IEEE-SSCS, as part of the activities of the SCS Italian Chapter.

IEEE-SSCS Distinguished Lecture Program

Monday, June, 8th, 2026

09:00 - 12.00

P. Harpe (Eindhoven University of Technology)

"ADC Innovations for Improved Resolution, Power and Form Factor"

"Ultra low power SAR ADCs and versatile, dynamic sensor interfaces"

ToM2026/1 - Course Program - June, 8-10, 2026

Hotel Belvedere - Torre dell'Orso - Melendugno (LE) - (Italy)

Monday, June, 8th, 2026

16:00 - 19.00

M. De Matteis (Univ. Milan-Bicocca - Italy), "Analog Design in 7nm-CMOS-FinFET"

Tuesday, June, 9th, 2026

09:00 - 12.00

G. Frattini (Analog Devices - Italy), "What does it take to build a System-In-Package with HV galvanic isolation"

16:00 - 19.00

C. Forzan (STMicroelectronics - Italy) - "Digital Design Flow: a Journey from Synthesis to Signoff"

Wednesday, June, 10th, 2026

09:00 - 12.00

L. Piotta (ChipsIt Foundation - Italy), "Introduction to Sub-THz Circuit Design"

16:00 - 19.00

P. Malcovati (Univ. Pavia - Italy), "MEMS and Integrated Microsystems: From Fabrication to Interface Circuits"

ToM2026/2 - Course Program - October, 12-14, 2026

University of Milan-Bicocca - Milan (Italy)

Monday, October, 12th, 2026

14:00 - 17:00

Q. Li (TU Hamburg - Germany), "High-Resolution SAR ADC with closed loop time-domain comparison"

Tuesday, October, 13th, 2026

9:00 - 12:30

E. Sacchi (Cadence - Italy), "Electromagnetics in RFICs and RF systems design"

14:00 - 17:30

M. Demicheli (ChipsIt Foundation - Italy), "DC-DC conversion techniques"

Wednesday, October, 14th, 2026

9:00 - 12:30

M. Sampietro (Polytechnic Milan - Italy), "Fighting against electronic noise: how to reach attoAmpere signal detection"

14:00 - 17:30

M. Chiabrera (Inventvm - Italy), "Techniques and challenges in low latency - low power audio digital design"



Topics on Microelectronics

ToM2026 - XX Year



Italian National
Ph. D Program in
Micro- and Nano-
Electronics

Updated information at

www.mbtechoservices.com

Directors: Andrea Baschirotto & Piero Malcovati

Co-Director: Stefano D'Amico



Registration Fee

ToM26/1

Option 1

Course Registration Fee + Coffee Breaks + Hotel (FB - Arrival June, 7 - Departure June 11 / 4 nights)

Option 2

Course Registration Fee + Coffee Breaks

	Registration before March, 31		Registration after April, 1	
ToM26/1 - Opt 1	Total rate: €950		Total rate: €1.100	
	Downpayment (w/in March 31) €400	Final Payment (w/in May 31) €550	Downpayment (at Registration) €650	Final Payment (w/in May 31) €550
ToM26/1 - Opt 2	Total rate: €700		Total rate: €850	
	Downpayment (w/in March 31) €300	Final Payment (w/in May 31) €400	Downpayment (at Registration) €500	Final Payment (w/in May 31) €350
	Registration before August, 31		Registration after September, 1	
ToM26/2	€ 290		€ 380	

Note

Hotel Accommodation and Hotel rates are guaranteed only for Registration within March, 31. For registrations after March, 31 the accommodation is not guaranteed, and the rate could higher. Please contact in advance the organization.

Hotel Accommodation is for a two-bed room. At the registration phase it is possible to suggest the room companion. If no room companion is suggested, the organization will combine two participants of the same gender to share the room.

Registration fee can be fully paid at the Registration phase or split in two payments as indicated in the table.

Any downpayment or final payment cannot be returned.

Any participant will not be admitted at the course if final payment has not been completed.