

**SIE 2019**  
Rome, June 24 - 26

**PhD School of the  
Società Italiana di Elettronica**

# SIE 2019 Ph.D School

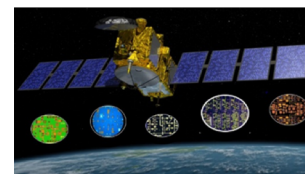
Electronics around the earth



## LECTURES

Electronics Around the Earth	Prof. Franco Giannini University of Rome Tor Vergata
The New Space Economy	Dr. Massimo Claudio Comparini A.D. e-GEOS
High Frequency Electronics for space systems	Prof. Ernesto Limiti University of Rome Tor Vergata
Payload Equipment and related technologies for Satellite Systems	Dr. Marziale Feudale Thales Alenia Space
Antenne (Title TBC)	Dr. Filiberto Bilotti University of Roma 3
Metasurfaces to Build Leaky-Wave Antennas With Radiation Flexibility	Dr. Elena Abdo Sánchez Universidad de Malaga
Galileo. The European Global Navigation Satellite System	Prof. Teresa M. Guerrero Universidad de Malaga
Digital Architectures for Space	Prof. Gian Carlo Cardarilli University of Rome Tor Vergata
ADC	Prof. Marco Re University of Rome Tor Vergata
Spaceborne Active Antennas	Dr. Piero Angeletti ESA
Telemetry and Telecontrol Systems for satellite applications	Dr. Lorenzo Simone Thales Alenia Space
Waveguide Subsystems for Antenna Feed	Prof. Angel Mediavilla Universidad de Cantabria
High Performance Embedded Computing in Space	Dr. Gianluca Furano ESA
Intellectual Property	Dr. Francesco Rogo Leonardo
Power Supply Systems	Dr. Giovanni Campolo Thales Alenia Space
Payload Space Qualification Process	Dr. Raimondo Fortezza Telespazio

The Ph.D. School of the SIE (“Società Italiana di Elettronica” – “Italian Electronics Society”) is an important event linked to the SIE Annual Meeting, which is announced for the the 51th year.



This year the School, entitled “Electronics around the Earth”, will focus on devices, sensors, circuits and systems for space applications with a cross-cultural approach in order to stimulate cross contamination between different research fields.

The aim is to discuss the basic concepts required to develop innovative and advanced systems, accounting for the harsh environment and constraints mandatory for successful space system development.

The latter, from an engineering point of view, involves components and systems for sensing, transmission and reception of signals at high frequency, as well as high computing capabilities for signal processing.

Due to the broad but peculiar topic of the school, the lectures are organized starting from basic concepts of high frequency electronics, linked with several practical examples presented by industrial actors.

Ph.D. students will have the unique opportunity to follow lectures given by the most relevant European experts, and will also enjoy the Q&A sessions after each talk, which will allow them to enhance their understanding of the topic and open discuss with experts.

At the end of each day, the students will undergo multiple-choice evaluation tests for the acquisition of credits.

Given the cross-cutting relevance of the topic, the School is expected to be of great interest for Ph.D. students dealing with any areas of electronics, i.e., analog H/L frequency, digital, sensors, telecom, etc.



Ph.D. students and recent graduates are warmly invited to participate to this unique experience. Young researchers, doctors, and company’s R&D staff can also participate

[sie-2019.uniroma2.it](http://sie-2019.uniroma2.it)

We look forward to seeing you in the beautiful Rome!

*Coordinator: Gian Carlo Cardarilli*

*Ph.D. School Chairs: Prof. Paolo Colantonio, prof. Franco Giannini, Prof. Eugenio Martinelli, Prof. Marco Re*

*General Chair: Giovanni Ghione. Organizing Chair: Gian Carlo Cardarilli*

*Publication Chair: Thomas Brown*

## LOCAL ORGANIZING COMMITTEE

Francesca Brunetti, Thomas Brown, Gian Carlo Cardarilli, Paolo Colantonio, Arnaldo D’Amico, Luca Di Nunzio, Rocco Fazzolari, Franco Giannini, Ernesto Limiti, Eugenio Martinelli, Giancarlo Orenco, Ivan Pini, Marco Re, Adrea Reale, Giovanni Saggio.

## CONTACTS

For info on submission, registration, sponsorship and accommodation:  
[info@sie-2019.uniroma2.it](mailto:info@sie-2019.uniroma2.it)