



UNIVERSITÀ
DI TRENTO

Dipartimento di
Fisica

PHD PROGRAM IN SPACE SCIENCE AND TECHNOLOGY - SST

“The sooner, the better!” - State of the art and technical challenges of small satellites and near-space platforms for technology demonstration

Monday, July 8, 2024, 12:00 p.m.

Speaker:

Prof. **Salvo Marcuccio**, Space Systems Laboratory, Dept. of Civil and Industrial Engineering - University of Pisa

Abstract:

Space activities are in constant need of innovative technologies with better and better performance and lower cost. However, space mission leaders are usually scared away by the prospect of embarking on their spacecraft a technology never flown before and favour flight heritage upon novelty. This paradox of space technology innovation needs proactive solutions to meet the rapid pace of development of today's space business, ensuring flight opportunities at low cost and with limited development time. The seminar will introduce the scientific, technical and programmatic issues and opportunities related to the early demonstration of new space technologies. The use of small satellites as testbeds for new concepts, presently promoted by several space agencies worldwide, will be presented and discussed, along with the promising use of stratospheric near-space platforms for early technology assessment.

Short Bio:

Salvo Marcuccio holds a MsC and a PhD in Aerospace Engineering. Before joining the University of Pisa as an Associate Professor of Space Systems, he was busy for 20 years as founder, CEO and eventually senior VP of a SME focused on space propulsion. His present research interests include micro- and nanosatellites, stratospheric platforms and applications of aerospace technology to environmental monitoring.

Online Attendance

<https://unitn.zoom.us/j/81497618238?pwd=HL6hSySCfTb2tQS3F3cb9F9KIQTozc.1>

Contacts

SST PhD Program Secretariat
tel. 0461 281504

dn_sst@unitn.it ; unitn.it/phd-sst/