



## PROGRAM

	Monday 7 <sup>th</sup>	Tuesday 8 <sup>th</sup>		
9.00 am		<b>Technical session I - Intentional threats to GNSS</b> Chair: F. Dovis (POLITO)		
9.15		<b>Daniele Borio</b> (Joint Research Center)	<i>Robust Signal Processing for GNSS Signal Reception</i>	
9.40		<b>Ilaria Sesia</b> (INRIM)	<i>Timing for critical infrastructure and GNSS vulnerabilities: the DEMETRA project</i>	
10.05		<b>Sabrina Ugazio</b> (Ohio University)	<i>GNSS Signal Quality Monitoring and Phase Anomalies detection</i>	
10.30		<i>Coffee break</i>		
11.00		<b>Darshna Jagiwala</b> (SVNIT)	<i>Effects of RFI on IRNSS</i>	
11.25		<b>Beatrice Motella</b> (ISMB)	<i>SNAP: An Authentication Concept for the Galileo Open Service</i>	
11.50		<i>Q&amp;A time, moderated by the chair</i>		
12.30		<i>Lunch</i>		
2.30 pm		<b>Opening session</b>	<b>Technical session II - Natural hazards to GNSS</b> Chair: Lucilla Alfonsi (INGV)	
2.45		<b>Welcome by Politecnico di Torino, Links foundation, Istituto Superiore Mario Boella</b>	<b>Joanna Rupiewicz</b> (European Satellite Services Provider - ESSP)	<i>TECH-TIDE: Warning and Mitigation technologies for travelling ionospheric disturbance effects on GNSS and HF communication</i>
3.10	<b>Mr. Gian Gherardo Calini</b> (European GNSS Authority - Head of Market develop. dept.)	<b>Lucilla Alfonsi</b> (INGV)	<i>Ionospheric Research at INGV</i>	
3.35	<b>Mrs. Sharafat Gadimova</b> (Office Outer Space Affairs, UN)	<b>Alfredo Favenza</b> (ISMB)	<i>A Machine Learning Approach to GNSS Scintillation Detection</i>	
4.00	<i>Coffee break</i>			
4.30	<b>Prof. J. Morton</b> (University of Colorado, U.S.A)	<b>Virendra Patel</b> (SVNIT)	<i>The very severe cyclonic storm OCKHI and effects on GNSS</i>	
4.55	<b>Dr. Keith Groves</b> (Boston College, U.S.A)	<b>Nicola Linty</b> (Politecnico di Torino)	<i>A novel approach to ionospheric scintillation detection based on an open loop architecture</i>	
5.20		<b>Gabriella Povero</b> (ISMB)	<i>Scintillation monitoring in South East Asia: results and perspectives</i>	
5.45 pm	<i>end of session</i>			

## Wednesday 9<sup>th</sup>

Wednesday 9 <sup>th</sup>		
9.00 am	Students presentations	
9.15	<b>Calogero Cristodaro</b> <i>(Politecnico di Torino)</i>	<i>Deeply coupled visual/INS/GNSS integration for robust navigation</i>
9.40	<b>Alex Minetto</b> <i>(Politecnico di Torino)</i>	<i>A theoretical framework for collaborative estimation of distances among GNSS users and tight integration in EKF positioning algorithm</i>
10.05	<b>Caner Savas</b> <i>(Politecnico di Torino)</i>	<i>Performance comparison of GPS L5 signal acquisition methods under phase scintillations</i>
10.30	Coffee break	
11.00	<b>Wenjian Qin</b> <i>(Politecnico di Torino)</i>	<i>GNSS jammer signals mitigation by using adaptive notch filters</i>
11.25	<b>Neil Gogoi</b> <i>(Politecnico di Torino)</i>	<i>Design of High Accuracy Navigation Systems for Robotic Vehicles</i>
11.50 am	Companies presentations Chair: Marco Pini (Istituto Superiore Mario Boella)	
12.00	<b>Claudia Maltoni</b> <i>(AlphaConsult)</i>	<i>Examples of methodologies to assess the socio-economic benefits of GNSS robustness</i>
12.30	Lunch	
2.00	<b>Oliver Towlson</b> <i>(Nottingham Scientific Ltd)</i>	<i>STRIKE3: Characterizing the GNSS Threat Environment through Long-Term Monitoring</i>
2.25	<b>Bruno Bougard</b> <i>(Septentrio)</i>	<i>Protecting GNSS-dependent professional applications from accidental interference and spoofing</i>
2.50	<b>Oscar Pozzobon</b> <i>(QASCOM S.r.l.)</i>	<i>State of the art in anti-spoofing technologies and preliminary tests on the Galileo Open Service Navigation Message Authentication (OSNMA)</i>
3.15	<b>Vincenzo Romano</b> <i>(SpaceEarth Technology S.r.l.)</i>	<i>Tackling Ionosphere to enhance GNSS high accuracy: SpaceEarth Technology solutions</i>
3.40	Coffee break	
4.00	<b>Andrea Emmanuele</b> <i>(Thales Alenia Space)</i>	<i>A diffuse protection layer against RF threats and signal distortions: a portfolio approach for trusted and robust PVT</i>
4.25	<b>Talini Pinto Jayawardena</b> <i>(Spirent communication Inc.)</i>	<i>The importance of updated testing equipment to assess receiver capabilities against environment, ionospheric effects, and threats</i>
4.50 pm	Final remarks	