

24th of June, 2019

The first day of the FANTASTIC final event will be focused on spoofing: hijacking the positioning output of a navigation device by injecting a false signal into the antenna.

We will discuss spoofing threats and present two anti-spoofing techniques developed in the FANTASTIC program, one of which leveraging an innovative feature which will be introduced in the GALILEO constellation shortly.

13:00-13:30	Participants arrival and registration
13:30-13:45	Welcome Speech Dr. Joaquim Fortuny Guasch (Joint Research Centre of the European Commission)
13:45-14:00	Introducing the FANTASTIC project Ir. Wim de Wilde (Septentrio NV) project coordinator
14:00-14:30	Spoofing: how it works and what you can do with it Dr. Marco Pini (LINKS Foundation) Ir. Wim De Wilde (Septentrio NV)
14:30-15:00	FANTASTIC Dual Polar Anti-Spoofing Ir. Wim De Wilde (Septentrio NV)
15:00-15:45	Attendees can visit several booths which focus on specific topics: -Poster presentation about dual polar anti-spoofing algorithms (Dr. Daniel Egea Roca, UAB) -Dual-Polar Antenna Presentation (Dr. Alexander Popugaev, Fraunhofer IIS) -Anti-spoofing in Septentrio products (Septentrio NV) -Beverages
15:45-16:15	Open Service Navigation Message Authentication (OSNMA) -How does it work? -Use in FANTASTIC Ir. Jan Grauwen (Septentrio NV)
16:15-17:00	Live Spoofing Attack Mitigated with OSNMA -Description of the test-setup -Demonstration & Discussion of Results Dr. Ciro Gioia, Dr. Melania Susi (JRC)
17:00-17:15	GALILEO Anti-Spoofing and Roadmap European GNSS Agency
17:15-17:30	Conclusions and workshop wrap up Ir. Wim de Wilde (Septentrio NV) project coordinator
17:30 – 18:30	Networking opportunity and beverages
18:30 – 21:00	Transport to restaurant and dinner
21:00 – 23:00	Transport to Torino for participants of the 2nd day workshop in Grugliasco

Venue: Joint Research Centre of the European Commission / Via E. Fermi, 2749, 21027 Ispra (VA), Italy

The second day of the FANTASTIC final event will be focused on precision agriculture and machine control. Within FANTASTIC several technologies were developed to increase robustness of the positioning and attitude solution. The prototype was validated on an electrical tractor in challenging agricultural environments.

8:30-9:00	Departure from hotel to convention center
9:00-9:20	Participants arrival and registration
9:20-9:45	<p>Welcome Speech from Prof. Carlo Grignani, Director of the Department of Agricultural, Forestry and Food Sciences of the Università di Torino</p> <p>Welcome Speech from Prof. Marco Mezzalama, President of LINKS Foundation</p> <p>New technologies in agriculture, challenges and future perspectives Prof. Paolo Gay (Department of Agricultural, Forestry and Food Sciences of the Università di Torino)</p>
9:45-10:00	<p>Introducing the FANTASTIC project Ir. Wim De Wilde (Septentrio NV) project coordinator</p>
10:00-10:30	<p>FANTASTIC Technologies for Improved Positioning and Attitude <i>Includes description of prototyping platform</i> Ir. Wim De Wilde (Septentrio NV)</p>
10:30-10:45	Coffee Break
10:45-11:15	<p>Testing FANTASTIC GNSS/INS Prototype in Precision Agriculture <i>This presentation will discuss the performance of the system and highlight the benefits of GALILEO</i> Eng. Gianluca Marucco (LINKS Foundation)</p>
11:15-11:45	<p>Advances in Precise Point Position and Applicability to Precision Farming Eng. David Calle (GMV)</p>
11:45-12:30	<p>Attendees can visit several booths which focus on specific topics:</p> <ul style="list-style-type: none"> -Electrical tractor with FANTASTIC prototype -Poster presentation about field-aware antenna techniques (Dr. Daniel Egea Roca, UAB) -Dual-Polar Antenna Presentation (Dr. Alexander Popugaev, Fraunhofer IIS) -Septentrio products for Machine Control (Septentrio NV) -MagicPPP Demonstration (GMV) -Coffee & Beverages
12:30-12:45	<p>FANTASTIC results to provide new European GNSS solutions Dr. Alina Hriscu (European GNSS Agency) – project officer</p>
12:45-13:00	<p>Conclusions and workshop wrap up Ir. Wim De Wilde (Septentrio NV) project coordinator</p>
13:00-14:00	Lunch

Venue: Università di Torino / DISAFA Dept. Largo Paolo Braccini, 2, 10095 Grugliasco (TO), Italy