

be-GNSS WORKSHOP

Innovative concepts for the use of space for positioning and timing: GNSS and beyond

Cutting-edge results of the worldwide research on complementary methods to provide PNT services, backing GNSS with other radio signals or systems of opportunity.

Panelists session

13 October 2020 – 12.30 – 2.00 p.m. EDT

12:30 - *Carrier Based Positioning with Potential LEO Constellations*

Dominik Dötterböck, Bundeswehr University Munich, Germany

12:50 - *GNSS Reflectometry: New Trends and Perspectives*

Andrew Dempster, University of New South Wales, Australia

1:10 - *Opportunities for Space-Based PNT Authentication*

Cillian O'Driscoll, Cillian O'Driscoll Consulting Ltd, Ireland

Papers presentations

14 October 2020 – 12.30 – 2.00 p.m. EDT

12:30 - *GDOP-Based Analysis of Suitability of LEO Constellations
for Future Satellite-Based Positioning*

Ruben Morales-Ferre, Elena Simona Lohan, Gianluca Falco and Emanuela Falletti

1:00 - *A Miniature Rubidium Oscillator (mRO-50™) for LEO PNT Nanosatellites*

John Fischer, Christian Schori and Serge Grop

1:30 - *Empowering the Tracking Performance of LEO PNT by Means of Meta-Signals*

Andrea Nardin, Fabio Dovis and Juan Fraire

Workshop Chairs

Dr. Emanuela Falletti, Fondazione LINKS, Torino, Italy

Dominik Dötterböck, Universität der Bundeswehr München, Germany

Dr. Beatrice Motella, Fondazione LINKS, Torino, Italy