

# GNSS TECHNOLOGY ADVANCES IN A MULTI-CONSTELLATION FRAMEWORK

## 21-22 JANUARY, 2016

ROME  
SOGEI - VIA MARIO CARUCCI, 99

### DAY 1: GNSS PROGRAMMES UPDATES AND PNT SOLUTIONS ADVANCES

- 08:30 - 09:15 Registration
- 09:30 - 09:45 Welcome address by Sogei Chairman and CEO, Cristiano Cannarsa
  
- INTRODUCTORY SPEECHES**
- 09:45 - 10:30 Huge data Sets: the topological approach - M. Rasetti (Politecnico di Torino)
- 10:30 - 11:15 SBAS Integrity: Current status and future perspectives - P. Enge (University of Stanford)
  
- SESSION 1: PNT, UBIQUITOUS POSITIONING AND SDR**
- 11:50 - 12:30 The Case for Recording IF Data for GNSS Signal Forensic Analysis Using a SDR - G. Lachapelle (formerly CRC/iCORE Chair in Wireless Location, University of Calgary)
- 12:30 - 13:10 Progresses about Indoor Positioning Techniques Innovations - A. Neri (Università di Roma Tre)
- 14:10 - 14:50 SDR Technology Updates - K. Borre (Danish GNSS Center)
- 14:50 - 15:30 A totally SDR-based Low Cost Augmentation System for Institutional Applications - R. Capua (Sogei)
  
- SESSION 2: PRIVACY, ANTI-SPOOFING, AUTHENTICATION**
- 15:30 - 16:10 The impact of the European privacy regime on indoor and outdoor location technology development: the new challenges in light of the future EU General Data Protection Regulation - A. del Ninno (Università LUISS)
- 16:40 - 17:20 Anti-Spoofing and Authentication techniques Progresses and Advances - O. Pozzobon (Qascom)
- 17:20 - 18:00 GNSS and Timing: the need for a global PNT infrastructure - M. Lisi (ESA)

### DAY 2: RAIL: THE LATEST FRONTIERS OF HIGH ACCURACY AND HIGH INTEGRITY APPLICATIONS

- SESSION 3: RAIL AND GNSS, A ROADMAP FOR EXPLOITATION**
- 09:45 - 10:30 Keynote on Galileo Programme Status - G. Calini (GSA)
- 10:30 - 11:00 High Integrity applications for Rail applications and the role of international collaboration - P. Enge (University of Stanford)
- 11:00 - 11:30 The role of satellite applications for the ERTMS evolution - A. Chiappini (ERA)
- 12:00 - 12:30 Satellite based train control systems for local and regional lines - F. Senesi (RFI)
- 12:30 - 13:00 Roadmap for technology development and validation - F. Rispoli (Ansaldo STS), A. Neri (Radiolabs)
- 14:00 - 14:30 The Certification Process in the ERTMS-ETCS Train Control System - A. Lippi (ANSF)
  
- SESSION 4: RAIL & SATELLITE, THE ROLE OF STAKE-HOLDERS**
- 14:30 - 15:00 The vision from European Rail Industry - P. Gurnik (UNIFE)
- 15:00 - 15:30 The role and contribution of Italian Space Agency: M. Caporale (ASI)
- 16:00 - 16:30 GNSS application method within ETCS: basis for efficient multi-constellation solutions - A. Filip (University of Pardubice)
- 16:30 - 16:45 Round Table: from technology to operations by exploiting satellite assets
- 16:45 - 17:00 Closing Remarks

Moderators: Roberto Capua; Ennio Ionni

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