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3rd CNES CCT Workshop - SPACE REFLECTO 2013 on passive reflectometry using radiocom space signals

Call for Papers

Telecom Bretagne, Brest, France

4 and 5 November 2013

<http://www-lisic.univ-littoral.fr/spacereflecto2013/>
spacereflecto2013@lisic.univ-littoral.fr

The SPACE REFLECTO 2013 International Workshop on reflectometry will be held in Brest (F), **November 4-5, 2013**. The workshop brings members of Space agencies with researchers from allied fields such as earth observation and engineering science. The scope of the workshop includes all aspects of space reflectometry with emphasis on signal of opportunities, hardware and signal processing techniques, and applications of reflectometry.

Conference Site: This new edition will take place at Telecom Bretagne, the prestigious graduate engineering school, located at Brest, the French capital of the Marine technologies. Telecom Bretagne is a famous high school of engineering specialized in information technologies. It is located in the Technopole Brest-Iroise, a place near Brest with companies (iXBlue,...) and public institutes (Ifremer, Université de Bretagne Occidentale,...) specialized in sea and information technologies.

Topics of Interest Include (but are not limited to):

Space signals used for reflectometry: New wide spectrum GNSS signals (ALTBOC, others); Use of GNSS metasignals; MBOC and BOC GNSS signals; GNSS signals transmitted by Geostationary satellites; LEO telecom constellation signals (Globalstar, Iridium, OFDM); GEO telecom signals; Multifrequency processing, Reflecto link and error budgets; Impacts of the used modulation (PN codes); Other types of signals used for reflectometry; Impact of the satellite coverage: global or local spots (dyn.; static).

Sensing hardware and techniques near the ground or water, on board planes or satellites: Impact of the ionosphere; impact of the surface state; State of the art of antennas for reflectometry (single or multibeams, steering or fixed beam); State of the art and prospects for GNSS receivers, telecom receivers; Bistatic transmitters (LEO constellations); Planned missions; Passive reflectometry (Radiometry); Radiometry/GNSS-R synergies; Simulators; Models, Observability; Data and users; hardware, software, techniques and analysis.

Propagation characteristics of satellite navigation signals: GNSS channel models in urban and indoor environments; Simulation and test development; Multipath modelling; Multipath mitigation.

Applications and Requirements: agriculture: soil moisture measurements, etc; observation of the fallen trees in forests; in-door or in-town reflectometry; sea-surface roughness observations; sea-level monitoring; tsunami observations; observation of coastal bands; ship detection; observation of ice and dry snow; navigation.

Paper Submissions:

Prospective authors are invited to submit papers electronically via the Easy Chair System at

<https://www.easychair.org/account/signin.cgi?conf=spacereflecto2013>

Paper templates and submission instructions will be available both at this site and at the conference website.

Paper submissions are due by **8 September 2013** and are no more than 2 pages in length. Accepted papers will be put on-line on the website. A book in Wiley or Artech House series will be proposed. After the workshop, authors of accepted papers will be invited to enter the review process for the book with an extended version of their paper.

Important Deadlines:

Papers due: **8 September 2013**

Notification of accepted papers: **20 September 2013**

Early registration deadline: **4 October 2013**

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