



FIFTH EUROPEAN WORKSHOP ON GNSS SIGNALS AND SIGNAL PROCESSING GNSS SIGNALS 2011

8th - 9th December 2011, ENAC, Toulouse, France



Call For Papers

The focus of this workshop is on GNSS signal design and signal processing. The proposed papers shall mainly focus on the characteristics and performances of GNSS signals related to any of the navigation, positioning, timing, attitude determination and scientific GNSS services. The use of EGNOS 3&4, Galileo 1&2 signals, as well as any other GNSS signals for operational and/or scientific applications will be considered.

The workshop will be **free of charge** (lunches at ENAC premises and dinner in Toulouse city).

Other GNSS events will take place in Toulouse between December 5th and 7th. They will be announced soon.

List of Themes

The bullets are only examples of topics of interest. Other topics linked to the proposed themes will also be considered.

ALTBLOC AND QPSK PROCESSING

- ALTBOC for geodesy, transports, science, space, ...
- Ionospheric correction using ALTBOC
- ALTBOC transmission through geo repeaters
- QPSK processing of an ALTBOC single lobe
- Non symmetrical ALTBOC waveforms
- ALTBOC data/pilot signal processing
- Multiconstellation ALTBOC/QPSK processing

HYBRIDIZATION NAV-COM; RELATED SIGNALS AND PROCESSING

- Hybridization of GNSS with Signals-of-Opportunity
- Hybridization of GNSS with Globalstar or Iridium
- Hybridization of Pseudolites and COM systems
- Point Positioning aided by COM systems
- Architecture of NAV-COM terminals
- Multicarrier waveforms for hybrid NAV-COM services

BOC AND MBOC PROCESSING

- CBOC/TMBOC joint processing
- BOC/MBOC correlation ambiguity processing
- Ionospheric correction performance involving MBOC
- BOC data/pilot processing
- Processing of MEO or GEO or IGSO MBOCs

NEW GNSS SIGNALS AND PROCESSING

- New proposed GNSS signals in L, S or C band
- Characterization of new GNSS signals in space
- Signals' standardisation for NSGUs, pseudolites, ...
- Meta-GNSS signals with 2, 3, 4 or 5 mainlobes
- Waveform optimisation: PSWF, MBOC tuning, ...
- New coding techniques (Turbo, LDPC, CSK, ...)
- Worldwide standards for multimodal GNSS
- New signals for GNSS Up Link Stations

Signal in Space processing for multipath/interference mitigation or high sensitivity capability are also targeted topics for the 4 proposed themes.



TIMELINE FOR GNSS SIGNALS 2011

- Abstracts should be submitted before 30 SEPTEMBER 2011 through one of the following web links:

<http://cnes.cborg.net/cct/submit.html> (in english)

<http://cnes.cborg.net/cct/soumettre.html> (in french)

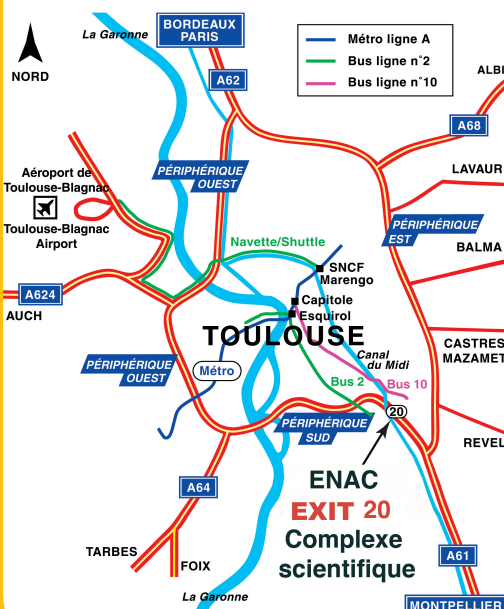
Abstracts should be written in English and be about 1000 words in order to give sufficient information to enable an objective selection process. The submitted abstracts should indicate the title of the paper, the appropriate themes, and include the name(s) of the author(s), organisation(s), email address(es), phone and fax number(s) and full postal address(es). The meeting and all papers will be in English.

In case of problem, contact joelle.guinle@cnes.fr, jean-luc.issler@cnes.fr or ojulien@recherche.enac.fr.

- The authors will be notified not later than 12 OCTOBER 2011 if their abstract has been accepted for oral or poster presentation.
- Full papers, no longer than 12 pages, shall be delivered before 15 NOVEMBER 2011 for publication in the proceedings.
- Registrations to attend the workshop have to be made on the following website before 15 NOVEMBER 2011 :

<http://cnes.cborg.net/cct/bipublic.html>.

VENUE



Map of ENAC

