

CALL FOR PAPERS

der Bundeswehr
Universität München

GNSS SIGNALS 2011



FIFTH EUROPEAN WORKSHOP ON GNSS SIGNALS AND SIGNAL PROCESSING

GNSS SIGNALS 2011

8th – 9th December 2011, IAS (Institut Aero Spatial) Toulouse, France

The aim of his workshop is to provide an overview of GNSS signals, characteristics, and performances related to any of the navigation, positioning, timing, attitude determination and scientific GNSS services. The use of EGNOS 3&4 and GALILEO 1&2 signals, and all other GNSS signals for operational and/or scientific applications, with 1 to 5 frequencies, will be considered. The expected papers shall mainly focus on signal design and signal processing . The workshop will be free of charge (lunches at IAS, dinner in Toulouse city). Other GNSS events to be announced soon will take place in Toulouse between the 5th and the 7th December.

Type of addressed topics, given as examples

ALTBOC and QPSK processings

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

Hybridation NAV-COM; related signals, processings

- Hybridization of GNSS and Globalstar
- Hybridization of GNSS and Iridium
- Hybridization of Pseudolites and COM systems
- Hybridization of PPP and COM systems
- Hybridization of GNSS with Signals-of-Opportunity
- Architecture of COM-NAV terminals
- Use of OFDM and other multicarrier waveforms

BOC and MBOC Processings

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

New GNSS signals and processing

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

Signal processing allowing multipath or interference mitigation, or low thresholds, are also aimed topics

Timeline for GNSS Signals 2011

- Abstracts for contributions should be submitted before the **16 SEPTEMBER 2011** through one of the following web links :

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

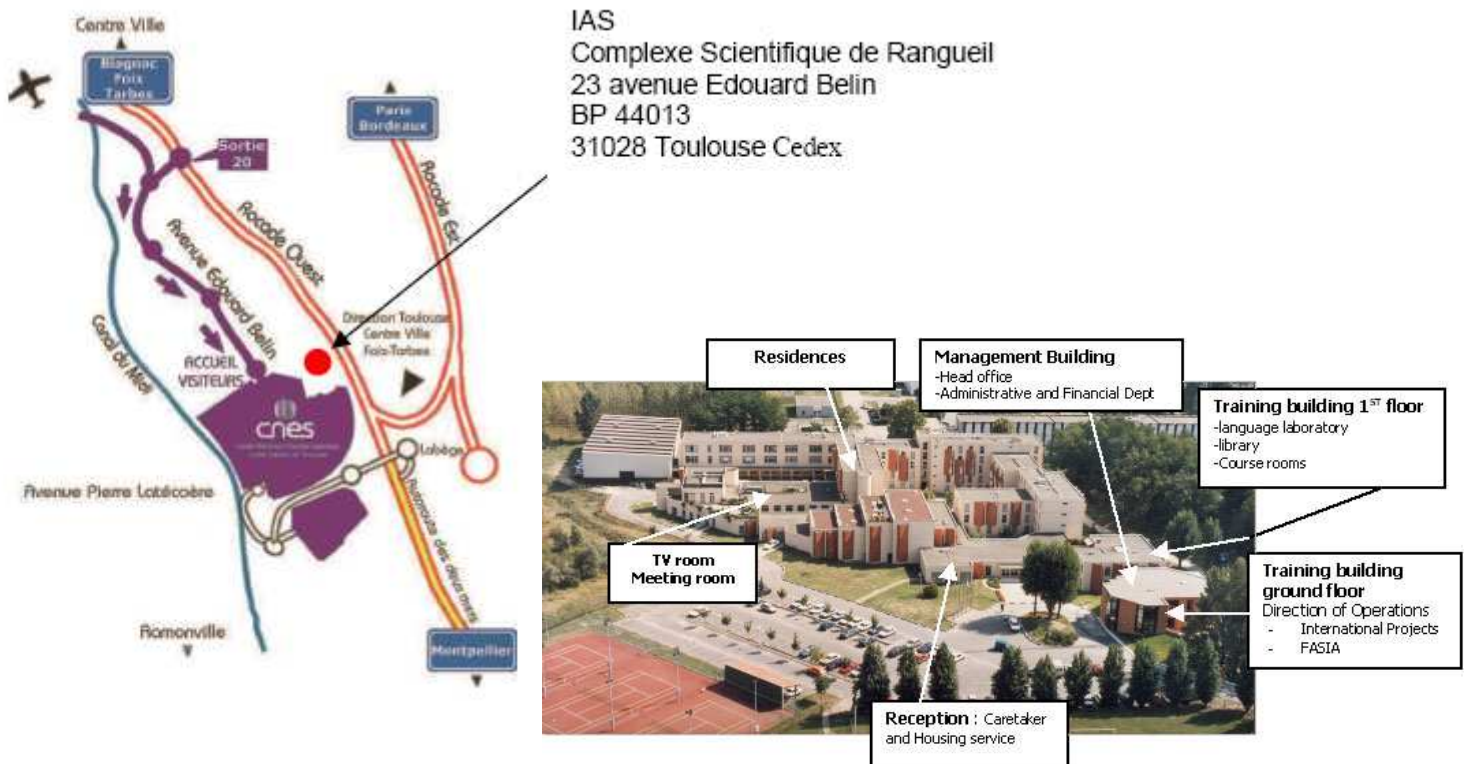
<http://cnes.cborg.net/cct/soumettre.html> (in french)

In case of problem, contact joelle.guinle@cnes.fr or jean-luc.issler@cnes.fr. Abstracts should be about 1000 words, but give sufficient information to enable an objective assessment to be made by referees. As well as the title of the paper, submissions should indicate the appropriate topic, as listed above, and include the name(s) of 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.

-The submitters of abstracts will be notified not later than the 3rd OCTOBER 2011, if their abstract has been accepted for oral or poster presentation.

- Full papers, no longer than 12 pages, shall be delivered before the **15 NOVEMBER 2011** for publication in the proceedings.

- Registrations to attend the workshop have to be made on the following website before the **15 NOVEMBER 2011** :
<http://cnes.cborg.net/cct/bipublic.html>.



<http://www.inst-aero-spatial.org/>