CALL FOR PAPERS

ELMAR 2013 Special Session on
Precise Carrier Phase Positioning

Summary:

This session covers new methods and algorithms of both absolute and relative positioning techniques with carrier phase measurements from GPS, Galileo, Glonass and Compass satellites. Integer ambiguity resolution for RTK and PPP has received a lot of attention recently while integer ambiguity validation is still an unsolved problem. Sensor fusion with inertial and image sensors is a promising option to enhance the reliability of carrier phase integer ambiguity resolution.

Topics (open to others):

- Carrier Phase Integer Ambiguity Resolution and Validation
    - unconstrained and constrained integer least-squares estimation,
    - best integer equivariant estimation,
    - ellipsoidal integer aperture estimation, etc.
- Precise Point Positioning
    - Satellite phase and code bias estimation
    - Multi-frequency linear combinations
    - Detection and correction of cycle slips and clock jumps
- Attitude determination
    - constrained ambiguity resolution
    - integrity of attitude determination
- Robotic Navigation
    - image-based and long radio wave based navigation
    - swarm navigation

Submission:

Authors should prepare their papers according to ELMAR-2013 paper sample, convert them to PDF (based on IEEE requirements) and submit them by **April 15, 2013** to the e-mail address listed below**.**

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