



Third International Conference on
Advances in Control and Optimization of Dynamical Systems
ACODS-2014
March 13-15, 2014
Indian Institute of Technology Kanpur, India



INVITED SESSION CALL FOR PAPERS

ACODS-2014 INVITED SESSION ON

Control, Navigation and Communication of Space Vehicles

http://www.iitk.ac.in/acods2014/Home_ACODS-2014.html

Invited Session Chair

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Background: Aerospace technologies and its applications have made great leap in their advancements. The performance of any aerospace system depends mainly on sensor systems and control technologies employed. The precision performance of navigation and communication is a very effective force multiplier. Data fusion from hybrid combination of navigation and attitude sensor systems is a futuristic trend, will further improve the accuracies of a control system. After the inception of GPS Satellite based Navigation has emerged as a front runner in determining Position, Velocity, Acceleration and Time (PVAT). ISRO has taken a major initiative in this direction by launching GPS based GEO Augmented Navigation (GAGAN) and Indian Regional Navigation Satellite System (IRNSS) projects. With launch of IRNSS-1A satellite on 01 July 2013, India has plans to develop a standalone regional navigation system. This special session aims to highlight and stimulate current state of art research in this important field.

Topics : Potential topics of this invited session include, but are not limited to:

- IRNSS applications for Navigation and control
- Space Based Navigation technologies using Satellite, Gyro's, Micro Electromechanical Systems (MEMS), and Ring Laser Gyros (RLG) etc.
- Vision Based Navigation and control
- Sensors data fusion
- Satellite Attitude and Orbit Control System
- Landers and Rovers

Important Dates :

1st December 2013: Deadline for submission of full-length papers

15th December 2013: Acceptance/rejection notification

15th January 2013: Final camera-ready papers due in electronic form.

Papers for the Invited Session should be submitted through **papercept**. Please visit the conference website for more information.