Call for Papers

2nd International Conference

METHODS AND SYSTEMS OF NAVIGATION AND MOTION CONTROL (MSNMC-2012)

http://ieee.nau.edu.ua/

October 9-12, 2012   **Kiev, Ukraine**

**Organized by the National Aviation University and
IEEE Ukraine Section Joint SP/AES Chapter (Kiev)**

Language

Conference languages are Ukrainian, Russian, and English. Simultaneous translation is provided in case of necessity. Language of publications is only English

Objectives and grounds

The Conference is planned to be a forum of ideas exchange and results discussion in the field of methods, algorithms and means of navigation and motion control systems computer-aided design, methods and algorithms of adaptive, robust and optimal motion control systems synthesis, methods and algorithms of estimation, identification and simulation of the navigation and motion control systems.

Suggested topics

- Advanced methods of the computer-aided design (CAD) of avionics equipment
- Navigation systems and sensors CAD
- Ground navigation equipment CAD
- On-board computer network systems CAD
- Aircraft control systems CAD
- Advanced methods of robust control systems synthesis
- Aircraft control systems with elements of artificial intellect
- Hard and soft computing in flight control and navigation systems
- Adaptive and optimal control systems

- Methods of the navigation and flight control synthesis for UAV
- Synthesis of navigation and flight control systems for terrestrial and marine vehicles
- Methods of state estimation and identification of the moving vehicles (aerial, terrestrial and marine)
- Methods of Hardware-in-Loop-Simulation (HILS) of the navigation and motion control systems for all kinds of moving vehicles
- Aviation trainers and simulators
- Aviation instruments and sensors design, testing and calibration
- Methods and systems for navigation and flight control equipment testing.

Program

The scientific program the 2nd International Conference «Methods and Systems of Navigation and Motion Control» (MSNMC-2012) consists of invited lectures and contributed oral presentations. Poster session will be organized, if the number of accepted papers exceeds capacity of rented rooms.

Important Dates

Publications

All contributions presented in oral and poster sessions will be published in the Conference Proceedings and CD. The Proceedings will be prepared directly from the papers supplied by authors, therefore careful preparation in accordance with the instructions is required. Detail information is contained on the Conference home page http://ieee.nau.edu.ua. Because of planned IEEE Xplore publication, all the authors are requested to fill in the IEEE Copyright form and submit it together with the paper.

Rules for abstract and paper preparation

A complete manuscript in English describing a new work in the areas of Conference Topics should be prepared in both .pdf and .doc formats and submitted following the detailed instructions presented at the conference web page: http://ieee.nau.edu.ua by June 30, 2012.

Full text of the abstract should occupy not more than three-four A4 full pages including figures, tables, and references. All contributors are encouraged to make the first submission prepared so close to the future full paper as possible. All papers included into the Conference Proceedings will be later made available to the public through the IEEE Xplore web page.

Contacts

For further information about MSNMC-2012 Conference please visit our web page at http://ieee.nau.edu.ua or contact us by E-mail to Olga Sushchenko sushoa@ukr.net

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