Eurathlon 2013
23-27. September 2013,
Berchtesgaden, Germany
Team Information

Picture of vehicle:

Name of vehicle: MSAS II

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**Eurathlon 2013**

23-27. September 2013,  
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**Team Information**

Picture of team leader:

Name of team leader: Janusz Będkowski

Team Name: IMM-IAIR

Team E-mail: januszbedkowski@gmail.com

**MSAS**  
Mobile Spatial Assistance System

Logo:

Website: http://gpuformobilerobot.github.com/

Location: Warsaw, Poland

Institution/Company: Institute of Mathematical Machines with the collaboration of Institute of Automatic Control and Robotics

Address: ul. Krzywickiego 34, 02-078 Warsaw, Poland

Telephone: 0048 501 090 020

Fax: -

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Team Information

Team Description: After successful CELROB 2011 we decided to improve our mobile platform (IAIR team). It is equipped with rotated LMS 100, therefore it can navigate in 3D environment. The novelty in proposed approach is based on GPGPU computation for 3D cloud of points processing. Robot can filter, sub sample and register 3D data on line. It can build consistent map based on 6DSLAM algorithm[1]. The new approach is related to use semantic information for loop closing detection. Semantic information is also sent to base station and it can be used for further decision support.


Sponsors:

Selection of scenario:

X___ Reconnaissance and surveillance in urban structures (USAR)
___ Mobile manipulation for handling hazardous material
X___ Search and rescue in a smoke filled underground structure
___ Autonomous navigation using GPS, GLONASS and GALILEO
___ EOR/EOD/IEDD/CIED (for professionals only!)

Proof of citizenship: A copy of team leader passport will do (will not be published)!

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