



## XXI International Scientific-and-Technological Conference EXTREME ROBOTICS

devoted to the 20-th Anniversary  
of EMERCOM of Russia

May 18 – 19, 2010  
75 Pavilion, V.V.C., Moscow  
<http://www.rtc.ru/>

### THIRD INFORMATION ANNOUNCEMENT



#### Organizers of the Conference

- FGU VNIPO of EMERCOM of Russia, Balashikha, Moscow Region
- CR&DI RTC, Saint-Petersburg, Russia
- MSTU by N. Bauman, Moscow, Russia
- IPMech by A. Ishlinsky RAS, Moscow, Russia

#### With Support of

- EMERCOM of Russia
- Ministry of Education and Science of the Russian Federation
- Russian Academy of Sciences

#### Registration for Conference

Participants should submit completed Registration Form (see Annex 1) and extended abstract of paper via e-mail: [mrspsb@rtc.ru](mailto:mrspsb@rtc.ru) before April 15, 2010

#### Financial Conditions

Regular participant registration fee is €300;  
Corresponding participation: the publication of conference proceedings.

The registration fee includes: expenses of organization, rent for the Conference-Hall and special equipment, conference proceedings.

Registration fee payment may be made by bank transfer, by credit card, or in cash. For payment by credit card we send the letter of authorization, which is necessary to fill in and send by fax or per e-mail with a copy of a credit card from both sides. For payment by bank transfer we send an invoice.

Deadline for a payment against an invoice is **May 15, 2010**.

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#### Conference Official Languages

Russian and English

#### Subjects of the Conference

- **Analysis of trends and prospects of extreme robotics development**  
Development of miniaturization, intellectualization, and integration of functional components of robotic systems. Group application of robots. Pilotless flying vehicles. Underwater robotics. Increasing role of the "human factor" in modern engineering systems.
- **Developments and application experience of extreme robotics systems**  
Ground-based mobile robotic complexes. Groups of mobile robots specifically intended for wrecking. Analysis of their efficiency. Remote-controlled unmanned underwater vehicles. Pilotless flying vehicles. Medical robotics. Special-purpose robots.
- **Functional components of robotic systems**  
Adaptive and intelligent control systems. Supervisory and interactive control. Integration of sensory systems. Position-and-force control of manipulators. Navigation and movement safety systems. Sensory systems and transducers. Information-and control components. Communication systems. 3D virtual reality systems for a man-operator. Microsystem actuators. On-board power-supply sources.

#### Guidelines for Papers

The paper (up to 8 pages) should be presented in electronic form as **MSWord** file compressed with pkzip.exe by e-mail: [mrspsb@rtc.ru](mailto:mrspsb@rtc.ru).

Formats of pages: A4; margins (upper and lower): 1.8 cm; margins (left and right): 1.9 cm. Text font: Times New Roman 11, position of paragraph tabs: 0.8 cm; linespacing: single. Illustrations and diagrams should be inserted in text as objects and have a title. First and last names of authors should be presented in right, upper corner; font: bold italic; then after line spacing in 9 points: Paper Title in the center, font: upper case, bold; then after line spacing in 9 points: author's organization, city, e-mail, font: italic; then after line spacing in 9 points: main text of paper. References in text should be designated by arable numerals in square brackets. The list of references should be presented after line spacing in 6 points after main text without title and indent.

#### Contacts

##### Co-chairmen of the International Program Committee:

Vladimir Dikiy (Lider Centre for High-Risk Rescue Operations of EMERCOM of Russia, Moscow Region)

Sergey Tsarichenko (FGU VNIPO of EMERCOM of Russia, Balashikha, Moscow Region)

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*in the frame International Exhibition INTEGRATED SAFETY AND SECURITY 2010 (<http://www.isse-russia.ru/>), is planned in accordance with the decree of the Russian Federation Government (September 2, 2009 №1275-p)*