

## EMERGING TECHNOLOGIES AND GLOBAL SECURITY: AN AGENDA FOR THE 21ST CENTURY

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The rapid development and increasingly common use of information and communications, aerospace, and nuclear technologies create new opportunities to solve social and economic problems, expanding access to energy, information and knowledge. At the same time, the use of emerging technologies for destructive purposes leads to an exacerbation of old threats, as well as to the emergence of the new ones. The creation of new types of weapons that are regulated neither by bilateral nor by multilateral agreements can trigger another arms race.

The aggravation of political relations between Russia and Western countries became an obstacle in the search for optimal solutions. A dialogue on the issues of global security might be an effective to reconstruct the cooperation.

### Conference Goals and Objectives

- ◆ To advance new initiatives that would bring together different approaches and develop measures to reduce the risk of using emerging technologies, as well as to increase their beneficial uses in the interest of development and global security;
- ◆ To restore and further develop the dialogue between experts from Russia, the West and other countries on emerging threats and challenges to global security;
- ◆ To join efforts of the private sector, expert and political communities to come up with the optimal balance between the opportunities and risks of the use of emerging technologies, along with their impact on global security;
- ◆ To engage young experts in the discussion on the pressing security issues.

### Expected Outcomes

Recommendations for government agencies, international organizations and private sector will become an outcome of the conference. Using its consultative status with the UN ECOSOC PIR Center will provide the recommendation to the United Nations. Conference results will be published in the PIR Center's *Security Index Journal*, *Yaderny Kontrol*, *The CyberPulse* e-journals and other Russian and international media.

### Participants

PIR Center and the Diplomatic Academy will bring together more than 100 Russian and foreign experts, representing different professional communities and ready to work together on broadening opportunities and reducing the risks of using emerging technologies for ensuring global security. Participants of PIR Center's International School on Global Security will also take part in the conference.

# Tentative agenda of the conference

- Global security and international law within the spheres of emerging technology and political reality
- Challenges to international law: traditional and new tools of regulation

## PANELS

### 1. Prospects for international cooperation in nuclear energy, nuclear non-proliferation and nuclear security

- How could we deal with the trend of decreasing efficiency of the current multilateral diplomacy formats in the field of nuclear nonproliferation and disarmament?
- What kind of nuclear security regime do we need to effectively counter the terrorist threat ?
- How can we guarantee the protection of the critical nuclear infrastructure against cyber attacks?
- What role could the nuclear industry play in the development of the nuclear nonproliferation and nuclear security regime?

### 2. The role of the government and private sector in the protection of critical infrastructures from global cyber threats

- What are the effective possibilities and limits of international cooperation to secure the information security of critical infrastructures?
- Is it possible to create an international classification of critical infrastructures to enhance the practical effects of international teamwork?
- What is the role of the private sector in the development and implementation of protection standards of critical infrastructures from ICT challenges?

### 3. Prevention of the placement of weapons in outer space, the threat or use of force against outer space objects – from words to deeds

- How big of a threat does military action in outer space pose for peaceful space activities?
- What kind of legal standards should be in place to enforce/maintain the peaceful nature of outer space?
- How can we ensure the prohibition of the use of force against objects in space, considering the possibility of dual usage of facilities and technologies?
- Are verification mechanisms necessary for the effective implementation of legal standards in outer space?

### 4. Lethal autonomous weapon systems – myth or real possibilities and threats – political and legal issues

- Robot arms control – security concern or endeavor to limit the competitors?
- Agreeing upon the terms: autonomy, autonomous and automatic systems, lethal autonomous weapon systems (LAWS), artificial intelligence and other concepts in the domain of regulating the proliferation of LAWS, LAWS classification
- Are there enough tools of international humanitarian law to control LAWS? Does IHL provide the Meaningful human control?
- Safety matters: risks of potential incidents, terrorists' use of LAWS

## PARTNERS



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