Advanced Research Workshop
“Meeting Security Challenges Through Data Analytics and Decision Support”
Aghveran, Armenia, 1-5 June, 2015

PROGRAM

June 1

9:00 – 11:00  Arrival and Registration of Participants

11:00 – 12:30  Opening Session
Opening Addresses (Invited Officials)
Gayane Markarova, Armenia, Hide and Seek of Information Age

12:30 – 13:30  Networking

13:30 – 14:30  Lunch

14:30 - 15:00  Break-out Session Introduction and Housekeeping
Elisa Shahbazian, Galina Rogova and Gevorg Margarov

15:00 – 16:30  Counter-Terrorism: Session 1
Galina Rogova, USA, Rogova, Galina, USA, Integration of Argumentation and Fusion of Soft-Hard Information for Threat Assessment
Eloi Bosse, Canada, Towards an Integration of Fusion of Information and Analytics Technologies (FIAT) to Improve Dependability and Security in Complex Systems
Allan Steinberg, USA, Model Uncertainty in Threat Assessment
Andrea Mucedolla, Italy, Looking for a Better Future

16:30 – 17:00  Coffee Break

17:00 – 19:00  Working Group Discussions

19:00 – 20:00  Dinner
June 2

9:00 – 11:00  **Border and Port Security: Session 1**  
Samvel Muradyan, *Armenia*, Main Aspects of Border Crossing Control Security Provision  
Joachim Biermann, *Germany*, A System for Advanced Maritime Domain Awareness and Decision Support for Improved Safety and Security of Maritime Operations in Arctic Border Areas  
Dominique Cant, *Belgium*, Management of Security Information in Ensuring Port Security Sources  
Ondrej Vanek, *Czech Rep.*, Modeling Maritime Contraband Trafficking Activities with the Agent-based Approach

11:00 – 11:30  **Coffee Break**

11:30 – 13:30  **Cyber-Defence: Session 1**  
Gurgen Khachatryan, *Armenia*, Efficient DFA Evaluation without Public-Key Cryptography  
Ján Genči, *Slovakia*, Are We Ready to Educate Security Professionals?  

13:30 – 14:30  **Lunch**

14:30 – 16:30  **Counter-Terrorism: Session 2**  
Ashok Vaseashta, *USA*, Strategically Countering Unconventional Cyber-Warfare – Scenario of Cyber 9/11  
Surik Khudaverdyan, *Armenia*, Selectively Sensitive Sensor to Determine the Explosives  
Hrvoje Belani, *Croatia*, A Security Assessment Framework for e-Health: A Croatian Perspective  
Jolanta Rodzoś, *Poland*, Terrorism as the Threat to Travel and Tourism Industry

16:30 – 17:00  **Coffee Break**

17:00 – 18:00  **Working Group Discussions**

18:00 – 19:00  **Working Group Presentations**

19:00 – 20:00  **Dinner**
June 3
9:00 – 18:00  *Excursion*

18:00 – 20:00  *Banquet*

June 4
9:00 – 11:00  **Cyber-Defence: Session 2**
Mher Markosyan, Armenia, Real-time Public-key Streaming Encryption
Yeghisabet Alaverdyan, Armenia, Efficiency of Generating Highly Nonlinear Boolean Permutations Designed over Quasigroups
Urszula Romańczuk-Polubiec, Poland, New Directions in Cryptography: Hyperelliptic and Elliptic Curve Multivariate Cryptography
Elena Satimova, Kazakhstan, Organization of Training on the Educational Program "Information Security Systems"

11:00 – 11:30  **Coffee Break**

11:30 – 13:30  **Border and Port Security: Session 2**
Robert Hakobyan, Armenia, The Identification of Human by Using Virtual 3D Imaging to Control the Border Crossing
Victor Cojocaru, Moldova, Device for Controlled Hypothermia on Fuzzy Logic Algorithms
Lyudmila Sidorenko, Moldova, Identification of Central Type Dominants of Persons with Aggressive Behavior to Increase the Society Security
Paskal Djiknavorian, Canada, Naval Ship Classification and Identification with Generalized Belief Functions Using a New Approximation Algorithm
Narek Hayrapetyan, Armenia, Border Surveillance using UAV with Thermal Camera

13:30 – 14:30  **Lunch**

14:30 – 16:30  **Counter-Terrorism: Session 3**
Elisa Shahbazian, Canada, Graph Matching and Intelligence Analysis
Dave Braines, UK, Building Agile Human/Machine Teams with Controlled Natural Language
Kellyn Rein, Germany, Challenges for Effective Data Analysis for Agile Counter-Terrorism
Lauro Snidaro, Italy, Reasoning in Relational Models for Security
Liviu-Daniel Galatchi, Romania, Risks of Environmental Terrorism

16:30 – 17:00  **Coffee Break**

17:00 – 18:00  **Working Group Discussions**

18:00 – 19:00  **Working Group Presentations**

19:00 – 20:00  **Dinner**
June 5

9:00 – 11:30  **Cyber-Defence: Session 3**

- **Svitlana Grygoruk**, Ukraine, Multi-Agent Based Approach of C&C Botnet Localization
- **Vahan Markarov**, Armenia, Cloud based Reconfigurable Steganographic System
- **Anahit Arshakyan**, Armenia, Secure Data Hiding in PDF Files Using Encrypted Secret Message
- **Vladimir Hovsepyan**, Armenia, Secure Real Time Data Transfer on the Cloud
- **Artak Khemchyan**, Armenia, Distributed Data Storing in Cloud Systems based on Error-correcting Codes

11:30 – 13:00  **Lunch**

13:00 – 17:00  **Panel Discussion**

17:00 – 18:00  **Working Group Discussions**

18:00 – 19:00  **Working Group Presentations and Wrap-up**

19:00 – 20:00  **Dinner**