

# CONTENTS

<b>PREFACE</b>	6
<b>CONFERENCE DATA</b>	7
<b>SESSION 1. GENERAL INFORMATIONAL SECURITY PROBLEMS</b>	9
<b>Cyber Warfare: Threats and Solutions.</b> Zavalski Igor - Ministry of Defense of Moldova	9
<b>Evolution of Cyber Crime.</b> Purici Dumitru - General Prosecutor Office of Republic of Moldova	17
<b>The Specifics of the Information Security.</b> Rusnac Andrei - Information and Security Service of Republic of Moldova	32
<b>Insuring the Cyber Security at the Newest Electronic Services Provision.</b> Donos Alexandru - Free International University of Moldova	38
<b>Some Aspects Regarding Information Security in Context of the Globalization Process.</b> Safonov Ghenadie, Hlopeanicov Claudia - Military Academy of Armed Forces of Moldova	43
<b>Creating Trust Based Access Policies to Control User Actions on Documents.</b> Danilescu Marcel, Besliu Victor - Technical University of Moldova	52
<b>Methodologies and Tools of Information Security Risk Management.</b> Bulai Rodica, Besliu Victor - Technical University of Moldova	62
<b>The Security in Internet: the Juridical Aspects Regarding the Informational Law.</b> Badarau Elena - State Institute of the International Relationships from Moldova	71
<b>SESSION 2. INFORMATION AND TELECOMMUNICATION SYSTEMS SECURITY</b>	77
<b>Autentification in Information Sphere.</b> Pogribnoi Vadim - Information and Security Service of Republic of Moldova	77
<b>Malware. Combating and Prevention.</b> Catan Mihai - Information and Security Service of Republic of Moldova	87
<b>The Defense Information Network for Terrorist Treats Prevention, Border Security and Illicit Materials Traffic Combating.</b> Sofronescu Igor, Cebotarev Oleg - Military Academy of Armed Forces of Moldova	98
<b>Tracking of Motor Vehicles From Aerial Video Imagery Using the OT-MACH Correlation Filter.</b> Bangalore Nagachetan, Young Rupert, Birch Philip, Chatwin Christopher - University of Sussex, Brighton, UK	103
<b>Digital Document Protection System.</b> Bredinschi Anatolie, Cebotari Ana - State University of Physical Education and Sport	114
<b>Protection in the Social Networks.</b> Rusnac Andrei - Information and Security Service of Republic of Moldova	117

<b>SESSION 3. INTERNET CYBER SECURITY</b>	124
<b>The Strategy of the Cyber Security Building.</b> Zghibarta Patricia - Information and Documentation Center on NATO in the Republic of Moldova	124
<b>On the Early Detection of Threats in the Real World Based on Open-Source Information on the Internet.</b> Bouma Henri, Rajadell Olga, Worm Daniël, Versloot Corné, Wedemeijer Harry - Organization for Applied Scientific Research (TNO), Netherlands	133
<b>Trans Border Space Trust on the Base of the Internet.</b> Donos Alexandru - Free International University of Moldova	145
<b>Cyber Defense as a Concept.</b> Buclis Mihail, Buruc Alexandru - Military Academy of Armed Forces of Moldova	159
<b>Cyber Security – a Fight Between Threats and Vulnerabilities.</b> Ionita Daniel - The National Centre of Response to Cyber Security Incidents (CERT-RO), Romania	168
<b>Romanian Approach in Cyber Security.</b> Andronie-Radulescu Dana - The National Centre of Response to Cyber Security Incidents, Romania	176
<b>New Trends in Security Teams for Research and Educational Networks in Moldova. Overview of automated tools for a CERT.</b> Golubev Alexandr, Bogatencov Peter - RENAM N.G.O.	181
<b>The Cyber Exercises for Protecting the Critical Infrastructure.</b> Maj Miroslaw - Cyber Security Foundation of Poland	188
<b>Future Platform for Internet of Things.</b> Daradkeh Yousef - University of Jordan, Jordan; Namiot Dmitry - Lomonosov Moscow State University, Russia	192
<b>Some Aspects of the Children's Security in the Internet.</b> Donos Alexandru - Free International University of Moldova	202
<b>SESSION 4. CRYPTOGRAPHY FOR CYBER SECURITY</b>	220
<b>General Tendencies in PKI Development in Europe.</b> Rusnac Andrei - Information and Security Service of Republic of Moldova	220
<b>Implementation of PKI IDP Management Systems for Access to Resources of European R&amp;E E-Infrastructures.</b> Bogatencov Peter - RENAM N.G.O.; Pocotilenco Valentin - Technical University of Moldova	227
<b>Encryption Systems with Wandering Keys.</b> Bulat Mihai, Zgureanu Aureliu, Ciobanu Iacob - Academy of Transport, Computer Science and Communications; Cataranciuc Sergiu – State University of Moldova	238
<b>About applying derivatives of Boolean functions in encryption systems.</b> Bulat Mihai - Academy of Transport, Computer Science and Communications	247
<b>Determination of Some Terms of Zhegalkin Polynomial.</b> Ciobanu Iacob - Academy of Transport, Computer Science and Communications	255
<b>Quasigroups in Cryptology.</b> Shcherbacov Victor - Institute of Mathematics and Computer Science of the Academy of Sciences of Moldova	262
<b>The use of Cryptographic Techniques RSA-m to Protect the Information in Real Time.</b> Balabanov A., Agafonov A., Kojukhari I., Izvoreanu B., Moraru D., Fedorov I. - Technical University of Moldova	266

<b>SESSION 5. INFORMATION SECURITY IN ECONOMICS AND BUSINESS</b>	278
<b>The Structure of Shadow Information Economics.</b> Ohrimenco Serghei - Academy of Economical Studies of Moldova; Borta Grigori - National Bank of Moldova	278
<b>Information Security Risk Management.</b> Jitnic Victoria - Academy of Economical Studies of Moldova, IT&IS Management" SRL	284
<b>Interaction Between Information Security Management and System of Internal Control.</b> Pavlova Lilia - Academy of Economical Studies of Moldova	293
<b>Testing as a Method of Informational Systems Security Level Estimation.</b> Storoj Oxana - Academy of Economical Studies of Moldova	303
<b>Vulnerability Life Cycle Analysis.</b> Borta Grigorii - National Bank of Moldova, Academy of Economical Studies of Moldova	310
<b>Information Security Issues in the Data-Oriented Culture.</b> Globa Galina - International Institute of Management "IMI-NOVA"	317
<b>The System Economic Security of Enterprise.</b> Kozachenko Ganna, Lyashenko Olexandra - Vladimir Dahl East-Ukrainian National University, Luhansk, Ukraine; Kavun Sergii - Kharkiv National University of Economics, Kharkiv, Ukraine	325
<b>Personnel Security Businesses: Management Insiders.</b> Mihus Irina, Gerasimenko Helen, Krasnomovets Victoria - Cherkasy National University B. Khmelnsky, Cherkassy, Ukraine; Kavun Sergii - Kharkiv National University of Economics, Kharkiv, Ukraine	334
<b>SESSION 6. EDUCATION IN INFORMATIONAL SECURITY</b>	344
<b>Some Educational Problems in Informational Security.</b> Capatana Gheorghe, Cerbu Olga - State University of Moldova	344
<b>Writing Wikipedia Articles as University Class Assignments.</b> Vladimirov Sergey - Moscow Institute of Physics and Technology (State University)	353
<b>Preparing of the Specialists in Information Security of License and Master Degree Levels at Free International University of Moldova.</b> Zgureanu Aureliu, Mititelu Vitalie - Free International University of Moldova	360
<b>Preparing of the Specialists in Information Security of License and Master Degree Levels at Technical University of Moldova.</b> Bulai Rodica, Besliu Victor - Technical University of Moldova	366
<b>Information Security in Higher Education Institutions.</b> Dediu Artur, Deinego Nona - State University "Alecu Russo"; Milukas Joseph - HealthCare Subrogation Group, Shelton, USA	369
✓ <b>PhD and DSC Specialists Preparing in Information Security.</b> Canter Valeriu, Perju Veacheslav, Holban Ion - National Council for Accreditation and Attestation of Republic of Moldova	374
<b>Information Security Research and Education Centre.</b> Perju Veacheslav - National Council for Accreditation and Attestation of Republic of Moldova	383
<b>AUTHOR INDEX</b>	387