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IT Security



IT Security

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IT Security



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on IT Security

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CONTENTS

1. Introduction

1.1.	Introduction	7
	<i>Plamen Nedkov</i>	
1.2.	Conference Statement.....	8
1.3.	Program	9
1.4.	Speakers and co-Authors.....	10

2. Keynote Presentation

2.1.	IT Security – An Overview.....	13
	<i>Giuseppe Mastronardi</i>	

3. EU and National Information Security Strategies

3.1.	Securing Europe’s Information Society.....	15
	<i>Paulo Empadinhas</i>	
3.2.	Information Security in Slovakia – from concepts to implementation.....	20
	<i>Daniel Olejár</i>	
3.3.	IT Security in Hungarian Public Administration - Models of Information Security Architecture in Practice.....	28
	<i>Bálint Molnár</i>	
3.4.	Bulgarian ICT Security Challenges and Policy for Research Activities	45
	<i>Kiril Boyanov, Ivan Dimov, Blagovest Sendov</i>	

4. Business Strategies and Best Practices

4.1.	Successful Digital Transformation for Mature SME Businesses	51
	<i>Martin Przewloka</i>	
4.2.	Understanding Covert Channels of Communication.....	56
	<i>Claudio Cilli</i>	

5. Information Security Competences, Education and Research

5.1.	Standardization of Knowledge and Skills for IT Security	64
	<i>Veronica Salsano</i>	
5.2.	e-CFplus and IT Security Competences	78
	<i>Roberto Bellini</i>	
5.3.	Changing Landscape, Changing Roles: Understanding how Cyber-Security is Evolving within ICT Practice.....	86
	<i>Lyndsay Turley</i>	

6.	Panel on Legal Informatics, Document Management, Privacy, Security, Ethics	95
	<i>Bruno Lamborghini, Niko Schlamberger, Daniel Olejár</i>	

1. Introduction

1.1. Introduction – 10th Workshop on IT Security, 28 October 2016, Milan

Our objectives in organizing the 10th IT STAR Workshop on *IT Security* were similar to these of previous events: To convene a stakeholder forum of representatives coming from academia, business, government and professional organizations with stimulating debate, to encourage synergies between national and international activities, outlining policies, best practices and competences, hopefully leading to spin-off activities and projects, and to produce a post-conference book with the proceedings for further dissemination.

The program consisted of an overview presented by the President of Associazione Italiana per l'Informatica ed il Calcolo Automatico (AICA), host and co-organizer of the event, and then proceeded under three major topics:

- **EU and national strategies and activities in the IS field**, with presentations of representatives of the EU Agency for Network and Information Security (ENISA), Slovakia, Hungary and Bulgaria
- **Business related strategies and practices**, with presentations from representatives of business and academia in Germany and Italy, and
- **IS Competences**, including presentations of representatives of TC 428 on “Digital Competences and ICT Professionalism” and the WS on ICT Skills of the European Committee for Standardization (CEN) - also representing UNINFO and (ISC)², and a presentation on AICA’s enriched eCFplus system and its ICT professional profiles related to security.

A Panel on legal informatics, document management, privacy and ethics complemented these topics.

IT STAR as regional association focuses on issues that confront the countries of Central, Eastern and Southern Europe within the context of the European Union. This event helped identify success stories and shortcomings in the IS field as well as potential topics for networking and closer co-operation between individuals and institutions within Europe. The favorable mix of participants and choice of presentations influenced positively a debate, which we are confident, will continue after the close of the 10th WS on IT Security.

The slide presentations that were delivered during the workshop are available at www.starbus.org/ws10.

We are hopeful that this publication of the post-conference papers will further augment the excellent debate within the format of the 10th IT STAR event.

Plamen Nedkov
Chief Executive, IT STAR
Moderator of the 10th WS on IT Security

1.2. Milan Statement

*Based on the debate of the 10th IT STAR Workshop on IT Security,
28 October 2016 in Milan, Italy*



The growing dependence on information and communication technology, on the one hand, and the vulnerability of the Internet to abuse, on the other, magnify the importance of IT security for governance, business, education and social activity, as well as for further development and application of ICT. Strategies, policies and legislation for IT Security, cyber-crime prevention, awareness, knowledge, skills and responsible behavior in the Internet environment, are essential in avoiding intellectual, material and personal harm.

The following policy matters were highlighted and are offered for consideration to a wider circle of stakeholders in the field:

- The acceptable balance between privacy and security in cyberspace should be an important preoccupation of government, the private sector, professional organizations and individuals. Legislation initiatives should treat cyber crime as any other criminal activity with similar consequences as in cases of physical attack, theft, fraud and other. The responsibilities of Internet providers to protect customers need to be better regulated.
- The majority of EU member states have national cyber-security strategies but pan-European cooperation remains dependent on wider harmonization of regulations, sharing experiences and good practices, detecting and preventing treats. In this regard, ENISA, the EU Agency for Network and Information Security, has a distinct role to play.
- For large companies and SMEs, digitalization strategies and the associated digital leadership principles are essential within an increasingly volatile economic environment. Economic growth scenarios need to incorporate security competences and standards for Internet products and services.
- Competences and skills are the crux in addressing IT Security. CEN's TC 428 on "Digital Competences and ICT Professionalism", CEN's WS on ICT Skills, (ISC)² and AICA's enriched e-CFplus system provide a base for further developments, moreover, cyber-security needs to be recognized and embedded within formal education, practice and skills standards.

The presentations and further details about the 10th IT STAR Workshop on IT Security are posted at www.starbus.org/ws10.

1.3. Program

10th IT STAR Workshop on IT Security,
28 October 2016, Milan Italy

09.00 Opening and Setting the Scene

IT Security – Overview of the Issues
Giuseppe Mastronardi, AICA President

Topic I. EU and National Strategies for Information Security

- Securing Europe's Information Society
Paulo Empadinhas, EU Agency for Network and Information Security (ENISA)
- Information Security in Slovakia – from concepts to implementation
Daniel Olejár, Comenius University, Bratislava
- IT Security in Hungarian Public Administration
Models of Information Security Architecture in Practice
Bálint Molnár, Eotvos Lorand University, Budapest
- Bulgarian ICT Security Challenges and Policy for Research Activities
Kiril Boyanov, Ivan Dimov, Blagovest Sendov, Bulgarian Academy of Sciences

11.30 Topic II. Business Strategies and Best Practices

- A New Method for Successful Digital Transformation for Mature SME Businesses
Martin Przewłoka, GFFT Technologies, Germany
- Understanding Covert Channels of Communication
Claudio Cilli, “La Sapienza” University, Rome

14.00 Topic III. Information Security Competences, Education and Research

- Standardization of Knowledge and Skills for IT Security
Veronica Salsano, UNINFO, Italy & CEN/TC 428
“Digital competences and ICT Professionalism”
- e-CF_{plus} and IT Security Competences
Roberto Bellini, AICA
- Changing Landscape, Changing Roles: Understanding how Cyber-Security is Evolving within ICT Practice
Lyndsay Turley, (ISC)² & CEN WS on ICT Skills

16.00 Panel on Legal Informatics, Document Management, Privacy, Security, Ethics

- **Bruno Lamborghini**, AICA
- **Niko Schlamberger**, SSI
- **Daniel Olejár**, SCS

1.4. Speakers and co-Authors



Roberto Bellini is AICA's responsible officer for Professional Systems, and member of AISM, the Association of Marketing Professionals.



Kiril Boyanov is Member of the Bulgarian Academy of Sciences. He has provided leadership within the Bulgarian ICT industry and in ICT R&D, notably as Director of the Institute of Inf. and Communication Technology.



Claudio Cilli is Professor at the Department of Computer Science, University of Rome "La Sapienza".



Ivan Dimov is Vice-Minister of Education and Science and Scientific Secretary of the Bulgarian Academy of Sciences.



Paulo Empadinhas is Head of Stakeholders Relations and Administration Department of the European Union Agency for Network and Information Security (ENISA).



Bruno Lamborghini is Professor of Information society at the Catholic University of Milan, Past President and vice-President of AICA.



Giuseppe Mastronardi is President of AICA and Professor of Information Processing Systems at Politecnico di Bari.



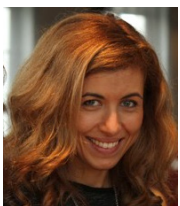
Bálint Molnár is Professor at Eötvös Loránd University, Faculty of Informatics, member of the committee for Informatics, Hungarian Academy of Sciences, and certified Information System Auditor, CISA.



Daniel Olejár is Vice-Rector of Comenius University, Bratislava and lectures on discrete mathematics, mathematical logic, set theory, computability theory, computer architectures, coding theory, combinatorics, cryptology and IS.



Martin Przewloka has over 25 years of experience as an entrepreneur in top industry management and in research & development. He is a recognized expert in the digital transformation with a strong focus on discrete industries, service industries and retail industries.



Veronica Salsano works in UNINFO, the associated body of UNI, responsible for Standards for IT and related applications in Italy. She manages the Secretariat of CEN/TC 428 “Digital competences and ICT Professionalism”.



Blagovest Sendov is Member of the Bulgarian Academy of Sciences. He served as Rector of Sofia University, President of the Bulgarian Academy of Sciences, President of the International Federation for Information Processing. He was Chairman of the Bulgarian Parliament and Bulgarian Ambassador to Japan.



Lyndsay Turley is Director of Communications & Public Affairs with (ISC)² EMEA, the world's and EMEA region's largest not-for-profit body of cyber and information security professionals.



Niko Schlamberger is President of the Slovenian society INFORMATIKA. He was President of CEPIS and Vice-President of IFIP.

This volume contains the revised and edited proceedings of the 10th IT STAR Workshop on IT Security, held on 28 October 2016 in Milan, Italy.

Recognized experts from academia, industry and professional organizations in the ICT field took part in this international event with contributions addressing important aspects of IT Security within three main areas:

- EU and National Information Security Strategies
- Business Strategies and Best Practices
- Information Security Competences & Skills

A Panel on legal informatics, document management, privacy and ethics complements the debate.

The publication is offered for consideration by a wider circle of stakeholders within the field, hoping it will contribute to further research and policymaking in the IT STAR region and the European Union.