



## AGENDA

**December 3rd, 2021**

**9:30-10:00** Participants registration (Online participation through "Zoom" platform)

**10:00-10:15** Conference Opening

### Keynote speakers

**10:15-10:45** „Personal Data Protection in Serbian Hotels”, Aleksandra Bradić-Martinović, Institute of Economic Sciences, Serbia

**10:45-11:15** „Advanced Cryptography by using Christoffel Symbols, Nenad O. Vesić, Mathematical Institute of the Serbian Academy of Sciences and Arts, Serbia

**Moderator: Dr. Nemanja Zdravković**

### Session I

**11:15-11:30** „Malicious future of AI Transcendents in the digital age", Zlatogor Minchev, Institute of ICT/Institute of Mathematics & Informatics, Bulgarian Academy of Sciences, Bulgaria

**11:30-11:45** „Cloud intelligence network for ransomware detection and infection effect reversing", Stefan Tafkov, IT for Security Department, Institute of ICT, Bulgarian Academy of Sciences, Bulgaria

**11:45-12:00** „Decentralized file storage and ransomware protection", Zlatogor Minchev, Institute of ICT/Institute of Mathematics & Informatics, Bulgarian Academy of Sciences, Stefan Tafkov, IT for Security Department, Institute of ICT, Bulgarian Academy of Sciences, Bulgaria

**12:00-12:15** „Smart cards to improve security of biometric systems", Andreja Samčović, Faculty of Transport and Traffic Engineering, University of Belgrade, Serbia

**12:15-12:30** „Result metric of fingerprint scanners done in Java GUI application", Komlen Lalović, Faculty of Project and Innovation Management Belgrade, Serbia

**Moderator: Dr. Nemanja Zdravković**

**12:30 – 12:40 Short break**

### Session II

**12:40-12:55** „Effectiveness of new digital technologies in fighting terrorism and related money laundering", Dragan Ž. Djurdjević, Miroslav D. Stevanović, Academy of National Security, Serbia

**12:55-13:10** „Securing Online Assessments in online educational systems using Blockchain", Jovana Jović, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Vijayakumar Ponnusamy, Department of ECE, SRM Institute of Science and Technology, Kattankulathur, India; Vladimir Milićević, Nemanja Zdravković, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia

**13:10-13:25** „Comparative analysis of digital signatures based on rsa cryptography and elliptic curve cryptography", Miloš S. Dražić, Miloš Jovanović, Igor Franc, Dragan Djokić, Bojana Tomašević Dražić, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia

**13:25-13:40** „**Security of government critical infrastructures with SCADA**“, Miloš Jovanović, Igor Franc, Miloš S. Dražić, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Nenad Biga, Graduate School of Business, La Salle University, Philadelphia, USA; Bojana Tomašević Dražić, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia

**13:40-13:55** „**Application of AI in data protection in the business environment**“, Nemanja Veselinović, Faculty of Information Technologies, Union - Nikola Tesla University, Miloš Jovanović, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Igor Orlić, Freshfields Bruckhaus Deringer, London, United Kingdom; Miloš S. Dražić, Faculty of Information Technologies, Belgrade Metropolitan University, Aca Aleksić, Academy of Technical and Art Applied Studies, School of Electrical and Computer Engineering, Serbia

**Moderator: Dr. Dušan Simjanović**

**13:55 – 14:20 Lunch break**

**Session III**

**14:20-14:35** „**A new cryptographic algorithm based on affine connection coefficients**“, Dušan J. Simjanović, Faculty of Information Technologies, Belgrade Metropolitan University, Nenad O. Vesić, Mathematical Institute of the Serbian Academy of Sciences and Arts, Branislav M. Randjelović, Faculty of Electronic Engineering, University of Niš, Nemanja Zdravković, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Kavitha Chandra, University of Massachusetts Lowell, Department of Electrical and Computer Engineering, USA

**14:35-14:50** „**The use of artificial intelligence to protect critical IT infrastructure**“, Aca Aleksić, Academy of Technical and Art Applied Studies, School of Electrical and Computer Engineering, Miloš Jovanović, Miloš S. Dražić, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Chad Ehrlich, Whitman School of Management, Syracuse University, Syracuse, NY, USA; Bojana Tomašević Dražić, Miloš Milašinović, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia

**14:50-15:05** „**Fraud detection and malicious code injection analysis in autograding systems**“, Nikola Dimitrijević, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Aleksandar Mesterović, Department of Security Studies and Criminology, Faculty of Art, Macquarie University, Sydney, Australia; Milena Bogdanović, Nemanja Zdravković, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia

**15:05-15:20** „**On some application of the genetic algorithm in information security systems - a survey**“, Milena Bogdanović, Nikola Dimitrijević, Faculty of Information Technologies, Belgrade Metropolitan University, Serbia; Vijayakumar Ponnusamy, Department of ECE, SRM Institute of Science and Technology, Kattankulathur, India – *video presentation*

**Moderator: MSc. Bojana Domazet**