

## WEDNESDAY October 13, 2021

09:00 – 09:20 ♦ Opening of the Conference

09:20 – 09:50 ♦ *Conference partner presentation – Alliter*

09:50 – 10:00 Coffee break

10:00 – 12:00 Talks in sessions:

♦ Information Systems and Information Processing

12:00 – 13:00 Lunch break

13:00 – 13:30 ♦ *Conference partner presentation – Microsoft*

13:30 – 15:10 Talks in sessions:

♦ Signal Processing and Communication Technologies

Talks in sessions:

♦ Information Technologies and Information Processing

Chairperson: Michal TURČANÍK

10:00 - 10:20 Modelling and Production Design of Lithophanes Showing the Sparkling Effect (Roman Ďurikovič, Sabína Fačkovcová)

10:20 - 10:40 Data Loading and Migration Methods in the Cloud Environment (Michal Kvet, Karol Matiaško)

10:40 - 11:00 Use of Machine Learning for the Unknown Values in Database Transformation Processes (Michal Kvet, Roman Čeresňák, Veronika Šalgová)

11:00 - 11:20 Steganography Based Approach to Image Authentication (Radoslav Forgáč, Miloš Očkay, Martin Javurek)

11:20 - 11:40 Use of Data Mining Techniques for Network Data Analysis (Július Baráth)

11:40 - 12:00 DSL to Support the Process of Creating Security Documentation for Classified Systems (Patrik Hamoš, Ľubomír Dedera)

♦ Communication Technologies and Signal Processing

Chairperson: Marcel HAKAKAL'

13:30 - 13:50 FIR Filter for Feed-Forward Compensation of MEMS Actuator (Zdenek Kolka, Viera Biolkova, Dalibor Bielek, Peter Barcik)

13:50 - 14:10 Symbolic Analysis of Networks Containing Fractional-Order Elements (Dalibor Bielek, Zdeněk Kolka, Ľubomír Brančík, Viera Biolková, Zdeněk Bielek)

14:10 - 14:30 Analysis of UAV Control Signals (Vaclav Platenka, Marketa Vrsecka, Jakub Novotny)

14:30 - 14:50 Telecommunication Services and IoT FBG Sensing Shared in PON Optical Fiber Line (Gabriel Cibira)

14:50 - 15:10 Using a Probabilistic Model of Signal Processing in Technologies in Military Practice (Radoslav Masnica, Jozef Štulrajter)

## THURSDAY October 14, 2021

09:30 - 11:10 Talks in sessions:

♦ Cybersecurity

11:10 - 13:00 Lunch break

13:00 - 15:00 Talks in sessions:

♦ ICT and Military Applications

15:00 - 15:30 Closing of the Conference

Talks in sessions:

♦ Cybersecurity

Chairperson: Július BARÁTH

09:30 - 09:50 Cloud of Things Security Challenges and Solutions (Andras Toth)

09:50 - 10:10 Cyber Security and APT Groups (Ladislav Burita, Dinh Thao Le)

10:10 - 10:30 Overview of Cyber Threats in Central European Countries (Kamil Halouzka, Ladislav Burita, Pavel Kozak)

10:30 - 10:50 Deploying Fake Network Devices to Obtain Sensitive User Data (Miroslav Dulik)

10:50 - 11:10 Analysis of Cybersecurity in the Real Environment (Martin Droppa, Marcel Harakal)

♦ ICT and Military Applications

Chairperson: Ľubomír DEDERA

13:00 - 13:20 A New View of Unified Communication in State Administration (Petr Riedel, Zuzana Vranova, Antonin Mazalek)

13:20 - 13:40 Concept of Solution for Cyber Common Operational Picture Gaining (Aneta Coufalíková, Ivo Klaban, Tomáš Šlajs, Alexandr Štefek)

13:40 - 14:00 Command Support System in the Cyberspace of the Contemporary Battlefield. Selected organisational, functional, as well as hardware and software aspects (Grzegorz Pilarski, Maciej Marczyk)

14:00 - 14:20 Possibilities of Modelling the Coordinated Maneuver of Units in Difficult Terrain Conditions (Jan Nohel, Pavel Zahradnicek, Zdenek Flasar, Ludek Rak)

14:20 - 14:40 Modelling the Manoeuvres of Ground Reconnaissance Elements in Urban Areas (Jan Nohel, Pavel Zahradnicek, Zdenek Flasar, Petr Stodola)

14:40 - 15:00 Practical Limits for Micro-Doppler Simulation Models in Digital Signal Processing (Stanislava Gažovová, Jozef Perďoch, František Nebus)