IEEE ICCST2022: 55TH IEEE INTERNATIONAL CARNAHAN CONFERENCE ON SECURITY TECHNOLOGY

Hosted by Tomas Bata University in Zlín, Czech Republic .

PROGRAMME

September 6ᵗʰ Tuesday, 18:00 welcome drink and snacks for participants and accompanying persons

Days: September 7ᵗʰ Wednesday, September 8ᵗʰ Thursday, September 9ᵗʰ Friday,

09:30 - 16:00 Day 1

Introduction: Gordon Thomas, Chair, Exec. Com; Martin Hromada, Chair, ICCST 2022: 09:30 - 09:40

Keynote Speech: Introduced by Martin Hromada: 09:40 – 10:10

Martin Bajer, strategy director, TCC MARCONI s.r.o., Converged security - practical applications

Topic 1: Security Technologies, Cybersecurity,

Chair: Assoc. Prof. Martin Hromada, PhD.

10:20

Yuri Bespalov, Lyudmila Kovalchuk, Hanna Nelasa, Roman Oliynykov and Alberto Garoffolo

Game Theory Analysis of Incentive Distribution for Prompt Deneration of the Proof Tree in zk-SNARK Based Sidechains

10:40

Hemin Muhammad and Martin Hromada

Proposing an E-Government Stage Model in Terms of Personal Information Security in Developing Countries

11:00 – 11:20 Coffee break

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11:20

Wiktor Sedkowski and Karol Bierczyński

Perceived severity of vulnerability in cybersecurity: cross linguistic variegation

11:40

Mimi Enakome Oka and Martin Hromada

Analysis of Current Preventive Approaches in the Context of Cybersecurity

12:00

David Kohout and Petr Mlynek

Testing Smart Meters with Custom Application

12:20 – 13:20 Lunchtime

Topic 1 continued: Security Technologies, Cybersecurity.

Chair: Dr. Milan Navrátil

13:20

Eva Holasova and Radek Fujdiak

Deep Neural Networks for Industrial Protocol Recognition and Cipher Suite Used

13:40

Fabio Garzia, Roberto Cusani and Andrea Chiarella

A New Hybdrid Steganographic Technique for Images

14:00

Carrie Gardner and William Claycomb

Applying Text Analytics to Insider Risk Analysis: A Case Study on Keyword Generation

14:20

Petr Ilgner and Radek Fujdiak

Fuzzing ICS Protocols: Modbus Fuzzer Framework

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14:40 – 15:00 Coffee break

Topic 1 continued: Security Technologies, Cyber Security

Chair: William Claycomb

15:00

Kaspar Kaufmann, Thomas Wyssenbach and Adrian Schwaninger

Exploring the Effects of Segmentation When Learning with Virtual Reality and 2D Displays: a Study With Airport Security Officers

15:20

Ashhadul Islam and Samir Brahim Belhaouari

Analysing Keystroke Dynamics Using Wavelet Transforms

15:40

Michael Rhead, Soodamani Ramalingam, William Martin and Rob Gurney

The Effect of Number Plate Layout and Design on Automated Recognition

16:00 Day 1 End.

18:00 Banquet. Venue: Hotel Valec

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09:30 - 16:00 Day 2

Topic 2: Security Management, Infrastructure systems protection

Introduction: G Thomas, Chair, Exec. Com; Martin Hromada, Chair 09:30 - 09:40

Keynote Speech: Introduced by Gordon Thomas: 09:40 – 10:10

Martin Hromada, Tomas Bata University in Zlín, Critical Infrastructure Protection and Resilience applications

Chair: Dr Gordon Thomas

10:20

Lucie Flynnova, Frantisek Paulus and Jarmil Valasek

Threats and Resilience: Methodology in the Area of Railway Infrastructure

10:40

Tomáš Loveček, Katarína Kampová, Jakub Ďurica and Katarína Petrlová

Biometric Identity Verification as Part of Physical Protection Systems

11:00 – 11:20 Coffee break

11:20

David Rehak and Alena Splichalova

Application of Composite Indicator in Evaluation of Resilience in Critical Infrastructure System

11:40

Adam Malatinský and Martin Hromada

Evaluation of the Most Important Fire Threats of the Building

12:00

Katarína Kampová, Katarína Mäkká and Katarína Petrlová

Economic Evaluation of Cost and Benefits of Implementing Monitoring and Tracking System of Persons in Medical Facilities

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12:20 – 13:20 Lunchtime

Topic 2 continued: Security Management, Infrastructure systems protection

Chair: Fabio Garzia

13:20

Mike Rhead, Rob Gurney, William Martin and Dr Soodamani Ramalingam

Electronic Number Plate Generation for Performance Evaluation

13:40

Lindemberg Naffah Ferreira, Rogério Zupo Braga, Bruno Meira Tenório D'Albuquerque, Bruno Eduardo Abreu de Oliveira, Carlos Augusto Lisboa da Silva, Guilherme Couto Soares, Alex Discacciati Neves, Pierre Julião Pimentel, Marcelo Maximiliano Maciel, Eufrásio Alves Cambuí Júnior, Carlos Renato Machado Confar, Aline Chevrand Campos, Osvaldo Lage Scavazza and Luiz Cláudio Fernandes Lourenço Gomes

Tax Safe State Line: a Brazilian State Platform for Monitoring Roads, Designed to Support Tax Enforcement and Compliance

14:00

Andrej Velas, Zuzana Zvakova and Martin Boros

Physical Protection and Guarding Service in the Company during the Pandemic – Human Resource Management

14:20

Gabriela Králíčková and Petra Dostálová

Analysis of Insurance Conditions as a Tool to Ensure Physical Protection in the Czech Republic

14:40 – 15:00 Coffee break

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Topic 2 continued: Security Management, Infrastructure systems protection

Chair: Dr. Milan Navrátil

15:00

Fabio Garzia, Francesco Borghini, Mara Lombardi, Ekaterina Makshanova and Soodamani Ramalingam

Emotional Analysis of Safeness and Risk Perception of Cybersecurity Attacks during the COVID-19 Pandemic

15:20

Dora Kotková, Lukas Kotek and Martin Hromada

Educational Platform for Personal and Community Protection Situations from the Perspective of Soft Targets – Self-defense part

15:40

Michael Coole, Deborah Evans and David Brooks

A Framework for the Analysis of Security Technology Vulnerabilities: Defeat Evaluation of an Electronic Access Control Locking System

16:00 Day 2 End.

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09:30 - 16:00 Day 3

Topic 2 continued: Security Management, Infrastructure systems protection

Chair: Assoc. Prof. Martin Hromada, PhD.

09:30 – 11:40 Day 3

Introduction: G Thomas, Chair, Exec. Com; Martin Hromada, Chair ICCST 2022 09:30 - 09:40

Keynote Speech: Introduced by Soodamani Ramalingam: 09:40 – 10:10

Gordon Thomas, History of the IEEE International Carnahan Conference on Security Technology

10:20

Stanislav Kovář, Jan Valouch and Jan Němec

Objective Method for Object Security Evaluation

10:40

Lukáš Kotek, Martin Hromada and Dora Kotkova

Online Interactive Education of People in the Field of Protection of Soft Targets

11:00

Final speech and location for 56th IEEE INTERNATIONAL CARNAHAN CONFERENCE ON SECURITY TECHNOLOGY introduction

11:20 – 11:40 End of the Conference