SATCIPC 2024 SECURITY-RELATED ADVANCED TECHNOLOGIES IN CRITICAL INFRASTRUCTURE PROTECTION to prevent CRISES

June 10 – 16th in Beograd, Serbia

Advanced Training Course (ATC)

Programme

June 10th 2024

Day 1, Beginning of the event

14:00 – 17:00 Arrival – transfer from the airport, registration, internal meeting of organizers, co-directors and speakers

18:00 Dinner

June 11th 2024

Day 2, Opening ceremony

Opening ceremony of the Advanced Training Course. Greetings from the organizers of the conference.

10:00-10:30

Opening Ceremony

Prof. Dr habil. Zoltán Rajnai,

Dean of Bánki Donát Faculty of Mechanical and Safety Engineering, Óbuda University, Hungary

Dr Igor Fürstner,

Director of Subotica Tech - College of Applied Sciences, Serbia

BLOCK 1: Emerging technologies including the developed and monitoring devices devices

Moderator	Igor Fürstner Subotica Tech - College of Applied Sciences, Serbia
10:30 – 10:55	Igor Fürstner, Subotica Tech - College of Applied Sciences, Serbia
	Challenges of optimization of photovoltaic systems if using publicly available
	data from the provider
10:55 - 11:20	Sanja Maravic Cisar, Subotica Tech - College of Applied Sciences, Serbia
	Safeguarding Confidentiality and Integrity in Networked Printing Systems
11:20 - 11:45	Laszlo Gogolak Subotica Tech - College of Applied Sciences, Serbia
	Security issues in the case of control using different communication protocols
11:45 - 12:10	Petar Cisar, University of Criminal Investigation and Police Studies, Serbia
	Application of Heuristic Scanning in Malware Detection Functions
12:10 - 12:30	Discussion
12:30 - 14:00	Lunch



BLOCK 2: Emerging technologies including nanotechnology supported by simulations and informatics systems

Moderator	Zlatko Covic, Subotica Tech - College of Applied Sciences, Serbia
14:00 – 14:30	Dr Jovan Trajkovski, University of Ljubljana, Faculty of Mechanical Engineering, Slovenia Blast and ballistic resistance of armor steels – numerical simulations
14:30 – 15:00	Janos Simon, Subotica Tech - College of Applied Sciences, Serbia Critical Infrastructure Protection of the Warehouse Logistics 4.0 Based on AGV Systems
15:00– 15:30	Drazan Kozak, University of Slavonski Brod, Croatia Remote strain measurement at vital objects by own developed device
15:30– 16:00 18:00– 21:00	Discussion Welcome reception

June 12th 2024

Day 3

BLOCK 3: Emerging technologies including nanotechnology in material sciences and information technology

Moderator	Alexis Rusinek, Lorraine University, France
	Instabilities and fracture under extreme loadings, discussion and examples
10:00 - 10:30	Darjana Sredic, PIM University, Bosnia and Hercegovina
	Non-verbal communication and the psychology of lying for a security
	environment
10:30 - 11:00	Zoltan Pap, Subotica Tech - College of Applied Sciences, Serbia
	Fuzzy logic-based risk assessment evaluating physiological values
11:00 - 11:30	Géza Gulyás, HDF Forcemodernisation and Transformation Command,
	Hungary
	Possible Role of AI in the Development of Field Artillery
11:30 - 12:00	Discussion
12:00 - 14:00	Lunch

BLOCK 4: Software and data security

Moderator	Janos Simon, Subotica Tech - College of Applied Sciences, Serbia
14:00 – 14:30	Piroska Stanic Molcer , Subotica Tech - College of Applied Sciences, Serbia
	Embedded system security solutions
14:30 - 15:00	Zlatko Covic, Subotica Tech - College of Applied Sciences, Serbia
	Secure data utilization from web environment
15:00 - 15:30	Robert Pinter, Subotica Tech - College of Applied Sciences, Serbia
	Enhancing Software Security: Software Analysis with Valgrind tool
15:30 - 16:00	Discussion
18:00-20:00	Dinner

June 13th 2024

Day 4

BLOCK 5: Optical technology and Microsatellites, Biomedical applications

Moderator	Géza Gulyás , HDF Forcemodernisation and Transformation Command, Hungary
10:00 - 10:30	Alexis Rusinek, Lorraine University, France
	Instabilities and fracture under extreme loadings, discussion and examples
10:30 - 11:00	Petrica Vizureanu, Technical University Iasi, Romania
	Environmental footprint reduction through eco-friendly technologies of mine
	tailings recycling
11:00 - 11:30	Marcin Adamiak, Silesian University, Poland
	Advanced methods of engineering materials surface properties modification
	towards functional and biomedical application
11:30 - 12:00	Discussion
12:00 - 14:00	Lunch
14:00 - 17:00	Darko Trifunovic
	Visit in Institute for National and International Security-INIS Beograd
18:00 - 20:00	Dinner

June 14th 2024

Day 5

BLOCK 6: Development of the UAV platform's technical background and applicability

Moderator	Marcin Adamiak, Silesian University, Poland
10:00 - 10:30	Yaroslav Kalchenko, National University of Civil Protection of Ukraine
	The prospect of using UAVs for firefighting needs
10:30 - 11:00	Konstantin Afanasenko, National University of Civil Protection of Ukraine
	The possibility of using UAVs to liquidate the consequences of an accident
	on objects of critical infrastructure
11:00 - 11:30	Zoltán Nyikes, HDF Forcemodernisation and Transformation Command,
	Hungary
	Crisis applicability analysis of the Military and Police cyber-physical
	systems
11:30 - 12:00	Discussion
12:00 - 14:00	Lunch

BLOCK 7: Emerging technologies including nanotechnology and Metallurgy in material sciences.

Moderator	Konstantin Afanasenko, National University of Civil Protection of Ukraine
14:00 – 14:30	Tünde Kovács, Óbuda University, Hungary
	Laser beam applications
14:30 - 15:00	Norbert Daruka, HDF Forcemodernisation and Transformation Command,
	Hungary
	Critical infrastructure risks from sabotage
15:00 - 15:30	Discussion
18:00 - 20:00	Dinner

June 15th 2024

Day 6

BLOCK 8: Human and Social Aspects of Security related to NATO's strategic objectives

Moderator	János Besenyő, , Óbuda University, Hungary
10:00 - 10:30	Robert Castel, Israel National Parks Authority, Israel
	Human and Social Aspect of the Middle East conflicts
10:30 - 11:00	Adela Danaj, University of New York Tirana, Albania
	Reconnecting Human Security with Contemporary Warfare: Addressing the
	Role of Humans in the Age of Artificial Intelligence
11:00 - 11:30	János Besenyő, Óbuda University, Hungary
	Prevention of the terror attack and the social aspects in the European Union
11:30 - 12:00	Discussion
12:00 - 14:00	Lunch
14:00 - 16:00	Workshop
16:00 - 16:30	Closing the event
18:00 - 20:00	Dinner

June 16th 2024

Day 7

Departures, transfer to Beograd airport