Advanced Research Workshop Countering Hybrid Threats Against Critical Infrastructures

21-23 May 2024, Brașov, Romania

EVENT PROGRAM





Countering Hybrid Threats Against Critical Infrastructures, 21-23 May 2024, Brașov, Romania

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Advanced Research Workshop Countering Hybrid Threats Against Critical Infrastructures 21-23 May 2024, Brașov, Romania

Organized by:

Faculty of Civil Engineering, Transilvania University of Braşov

Academy of Technical Sciences and Arts of Bosnia and Herzegovina





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EVENT PROGRAM - CONCISE

Monday, 20th o	of May	
20:00	Welcome Reception	Lobby restaurant
Tuesday, 21st o	of May	
08:00-09:00	Registration of the participants	Conference rooms hallway
09:00-09:50	Opening Session	Europa 3
10:00-13:20	Session I. Critical Infrastructure Protection	Europa 3
13:30	Lunch	Lobby restaurant
15:00-17:00	Session II. Risk assessment and Mitigation	Europa 1
17:00-17:20	Panel and working group formation	Europa 1
17:20-18:30	Working group discussions – Session 1	Europa 1 & 3
19:00	Dinner	
Wednesday, 2	2 nd of May	
09:00-12:20	Session III. Structural monitoring and assessment	Europa 3
13:00	Lunch	Lobby restaurant
15:00-16:20	Session IV. Counter-terrorism for infrastructure applications	Europa 1
16:30-17:30	Working group discussions – Session 2	Europa 1 & 3
17:45	Walking tour – sightseeing Brașov old town	
19:00	Dinner	
Thursday, 23 rd	of May	
09:00-11:00	Session V. Solutions for critical infrastructure protection	Europa 1
11:00-11:20	ARW Proceedings: Details and logistics	Europa 1
11:20-12:00	WG Feedback and Presentations by the leads	Europa 1
12:00-12:40	Feedback session	Europa 1
12:40-13:00	Conclusions, recommendations, and future cooperation	Europa 1
13:00-13:40	Lessons learned	Europa 1
	Closing remarks and ARW summary	2010ра 1
14:00	Lunch	
19:00	Gala Dinner	Horizon restaurant





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EVENT PROGRAM – DETAILED

Monday, 20th o	of May	
20:00	Welcome Reception	Lobby restaurant
Tuesday, 21st o	of May	
08:00-09:00	Registration of the participants	Conference rooms hallway
09:00-09:50	Opening Session ARW Co-directors Assoc. Prof. Dorin Radu and Prof. Mirsada Hukić	Europa 3
10:00-13:20	Session I. Critical Infrastructure Protection	
	Chairs: Prof. Ashok Vaseashta and Prof. Konstantinos Papatheodorou	Europa 3
10:00-10:40	Lt. Alexandru Cristian Hudișteanu, NATO MARSEC COE, Türkiye	
	Surveillance from Space of Maritime Critical Infrastructure	
10:40-11:20	Prof. Gor Gevorgyan, Academy of Sciences of Armenia, Armenia	
	Protecting Water and Wastewater Critical Infrastructure from Hybrid Threats	
11:20-12:00	Prof. Ashok Vaseashta, International Clean Water Institute, Manassas, USA	
	Framing scope of Hybrid threats and challenges associated with Critical Infrastructures,	
12:00-12:40	Prof. Anatolie Sidorenko, Technical University of Moldova	
	Functional Nanostructures for Superconducting Spintronics	
12:40-13:20	Prof. Dejan Vasović, University of Niš, Serbia	
	Advancing the Critical Infrastructure Resilience to Hybrid Threats throughout System Approach, Standardization and MCDA	
	11 ,	
13:30	Lunch	
15:00-17:00	Session II. Risk assessment and Mitigation	
	Chairs: Assoc. Prof. Dorin Radu and Prof. Alina Bărbulescu	Europa 1





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15:0	0-15:40	Prof. Konstantinos Papatheodorou, International Hellenic University, Greece	
		Empowering Communities: Education for improving Public Awareness and Response Capacity in Earthquake Emergencies	
15:4	0-16:20	Prof. Carmen Maftei, Transilvania University of Brașov	
		Flood Hazard Analysis for Casimcea River (Romania)	
16:2	0-17:00	Prof. Hukić, BiH Academy of Sciences and Arts, Bosnia and Herzegovina	
		Forecasting and Mitigating Epidemic Spread During Natural Disasters Triggered by Seismic Events	
17:0	0-17:20	Panel and working group formation	
		WG 1 - Hybrid threats, risk assessment and vulnerabilities	
		Lead by Prof. Ashok Vaseashta and Prof. Carmen Maftei	
		WG 2 - Technology Innovations to Counter Threat Vectors	
		Lead by Prof. Konstantinos Papatheodorou and Assoc. Prof. Radu Muntean	
		WG 3 - Risk assessment	
		Lead by Prof. Alina Bărbulescu and Assoc. Prof. Dorin Radu	
17:2	0-18:30	Working group discussions – Session 1	Europa 1 & 3
		Questions will be distributed for discussion	Luropa 1 & 3
19:0	0	Dinner	
We	dnesday, 22	2 nd of May	
09:0	0-12:20	Session III. Structural monitoring and assessment	F 2
		Chairs: Prof. Mirsada Hukić and Prof. Carmen Maftei	Europa 3
09:0	0-09:40	Prof. Ashok Vaseashta, International Clean Water Institute, Manassas, USA	
		AloT, loB, and TENG in Critical Infrastructure Protection	
09:4	0-10:20	Prof. Radu Băncilă, Politehnica University Timișoara, Romania	
		Criteria for the Assessment of Existing Steel Bridges - Case Studies	





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10:20-11:00	Assoc. Prof. Dorin Radu, Transilvania University of Brașov	
	Engineering Critical Assessment of the Existing Steel Structures	
11:00-11:40	Prof. Arezki Benfdila, Université Mouloud Mammeri de Tizi Ouzou, Algeria	
	Nanoelectronics Based Sensors and Applications	
11:40-12:20	Prof. Alina Bărbulescu, Transilvania University of Brașov	
	Assessing the Impact of the Dams Inception on the River Discharge	
13:00	Lunch	
15:00-16:20	Session IV. Counter-terrorism for infrastructure applications	Europa 1
	Chairs: Prof. Benfdila Arezki and Prof. Yuri Dekhtyar	сигора т
15:00-15:40	Prof. Yuri Dekhtyar, Riga Technical University, Latvia	
	Functionalisation of nano/micro Systems Against Microbiological Threats in Water	
16:40-16:20	Prof. Metodi Hadji-Janev (BG), Military Academy, Skopje, North Macedonia	
	Strategic and Legal Aspects of Countering Hybrid and Cyber-based Threats to Critical	
	Infrastructures in South East Europe	
16:30-17:30	Working group discussions – Session 2	Europa 1 & 3
17:45	Walking tour – sightseeing Brașov old town	
19:00	Dinner	
Thursday, 23 rd	of May	
09:00-11:00	Session V. Solutions for critical infrastructure protection	Europa 1
	Chairs: Prof. Nimet Karagülle and Dr. Ilija Djugumanov	
09:00-09:40	Prof. Álvaro Rocha, University of Lisbon, Portugal	
	Cybersecurity Maturity Models: a Systematic Literature Review	





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09:40-10:20	Prof. Nimet Karagülle, Mersin University, Türkiye Future of Electrospun Nanofibrous Systems for Decontamination and Protection Against Chemical and Biological Threats Assoc. Prof. Karlo Emmanuel Nyarko, Josip Strossmayer University of Osijek, Croatia From Phantoms to Firewalls: Securing Critical Infrastructures in the Age of Hybrid Threats	
11:00-11:20	ARW Proceedings: Details and logistics, Prof. Ashok Vaseashta	Europa 1
11:20-12:00	WG Feedback and Presentations by the leads	Europa 1
12:00-12:40	Feedback session	Europa 1
12:40-13:00	Conclusions, recommendations, and future cooperation	Europa 1
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	Closing remarks and ARW summary	Europa 1
14:00	Lunch	
19:00	Gala Dinner	Horizon restaurant
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All the events will take place at the ARO-Palace hotel.

Note: The program may be slightly adjusted. Please use the QR code to find the latest version on the event website.

