



ŽILINSKÁ UNIVERZITA V ŽILINE
Fakulta bezpečnostného inžinierstva



INVITATION

CRISIS SITUATIONS SOLUTION IN SPECIFIC ENVIRONMENT

the 23th International Scientific Conference

23th – 24th May 2018

Žilina

Accompanying event of conference:

YOUNG SCIENCE - SCIENCE AND CRISIS SITUATIONS

XV. International Scientific Conference of Young Scientists

and PhD Students

24th May 2018

Faculty of Security Engineering
University of Žilina



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The scientific conference will be held under the auspice of:

dr.h.c. prof. Ing. Tatiány COREJOVEJ, PhD., Rector, University of Žilina

Scientific guarantees of the conference:

- prof. Ing. Ladislav ŠIMÁK, PhD.
- prof. Ing. Zdeněk DVOŘÁK, PhD.
- prof. Ing. Tomáš LOVEČEK, PhD.
- prof. Ing. Jana MÜLLEROVÁ, PhD.

Scientific committee of the conference:

Chairman: prof. Ing. Ladislav ŠIMÁK, PhD. Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko

Members:

- doc. Ing. Vilém ADAMEC, Ph.D. – Fakulta bezpečnostného inžinierstva, VŠB-TU Ostrava, Česká republika
- doc. Mgr. Milan ADÁMEK, Ph.D. – Fakulta aplikovanej informatiky, Univerzita Tomáše Bati ve Zlíně, Česká republika
- prof. Ing. Karol BALOG, PhD. – Materiálovo technologická fakulta STU Bratislava, Slovensko
- prof. Ing. Jurij BASKIN, DrSc. – St. Petersburg University of State Fire Service of The Ministry of the Russian Federation for Civil Defense, Rusko
- prof. PhDr. Ján BUZALKA, CSc. – Akadémia policajného zboru v Bratislave, Slovensko
- assoc. prof. Dr. Zoran ČEKEREVAC – Union University Belgrade, Srbsko
- prof. Dr. Vladimír CVETKOVIČ – Faculty of Security Studies University Beograd, Srbsko
- prof. Ing. Zdeněk DVOŘÁK, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- prof. dipl. Ing. Roberto GAMBOA, PhD. – Instituto Politécnico de Leiria, Portugalsko
- assoc. prof. Aytekin GELERI, Ph.D. – Turkish National Police Academy, Ankara, Turecko
- Dr.h.c. prof. mpx.h.c. prof. Ing. Vladimír GOZORA, PhD. – VŠEMvs v Bratislava, Slovensko
- prof. Ing. Štefan HITT MÁR, PhD. – Fakulta riadenia a informatiky UNIZA v Žiline, Slovensko
- plk. Ing. Miroslav IVICA – sekcia krízového riadenia MV SR, Slovensko
- prof. Ing. Ladislav HOFREITER, CSc. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- assoc. prof. Želimir KEŠETOVIČ, PhD. – Faculty of Security Studies University Beograd, Srbsko
- doc. Ing. Jozef KLUČKA, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- Ing. Zdeněk KOPECKÝ, Ph.D. – Inštitút krízového manažmentu VŠE, Praha, Česká republika
- doc. Ing. Bohuš LEITNER, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- doc. Ing. Tomáš LOVEČEK, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- prof. Ing. Milan MAJERNÍK, PhD. – Strojnícka fakulta, Technická Univerzita v Košiciach, Slovensko
- prof. Gorazd MEŠKO, Ph.D. – University of Maribor, Slovinsko
- dipl. Ing. Wolfgang MIHLAN – Industrie- und Handelskammer Magdeburg, Nemecko
- doc. Ing. Vladimír MÓZER, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- prof. Ing. Jana MÜLLEROVÁ, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- prof. MUDr. Leoš NAVRÁTIL, CSc. – Fakulta biomedicínskeho inžinierstva, ČVUT v Prahe, Česká republika
- Mgr. Marcin PAWESKA, PhD. – Międzynarodowa Wyższa Szkoła Logistyki i Transportu, Wrocław, Poľsko
- prof. Ing. Pavel POLEDŇÁK, PhD. – Fakulta bezpečnostného inžinierstva, VŠB Ostrava, Česká republika
- doc. Ing. David ŘEHÁK, Ph.D. – Fakulta bezpečnostného inžinierstva, VŠB Ostrava, Česká republika
- doc. Ing. Jozef RISTVEJ, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- doc. Ing. Jaroslav SIVÁK, CSc. – Sofos s.r.o., Bratislava, Slovensko
- doc. Ing. Eva SVENTEKOVÁ, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- prof. Daniela TODOROVA, Ph.D. – Higher School of Transport Sofia, Bulharsko
- prof. Ing. Vojtech JURČÁK, PhD. – Akadémia ozbrojených síl, Liptovský Mikuláš, Slovensko
- Ing. Aurel UGOR – Odbor bezpečnosti a krízového riadenia MH SR, Slovensko
- prof. Ing. Rudolf URBAN, CSc. – Univerzita obrany, Brno, Česká republika
- assoc. prof. Detelin Lyubomirov VASILEV, Ph.D. – Higher School of Transport Sofia, Bulharsko
- doc. Ing. Andrej VEĽAS, PhD. – Fakulta bezpečnostného inžinierstva UNIZA v Žiline, Slovensko
- prof. Ing. Dušan VIČAR, CSc. – Fakulta logistiky a krízového riadenia, UTB Uherské Hradište, Česká republika
- prof. Yaroslav VYKLYUK, DrSc. – Bukovinian University, Chernivtsi, Ukraina
- prof. Bartel VAN DE WALLE, Ph.D. – Delft University of Technology, Holandsko
- prof. Dr. inž. Zenon ZAMIAR – Wyższa Szkoła Oficerska Wojsk Łądowych, Wrocław, Poľsko



Goal of the conference is to exchange the latest scientific findings and practical experiences of crisis management with focus on public administration and private sector, persons and property protection and situations, critical infrastructure protection in transportation and energetic sectors and fire prevention, protection and rescue services.

Conference sections:

Section No.1: **General Principles of Crisis Management**

prof. Ing. Ladislav ŠIMÁK, PhD.

doc. Ing. Jozef KLUČKA, PhD.

- analysis of security environment and current risk issues and threats within today society,
- current tasks of establishment of the security system of the Slovak republic,
- crisis management tasks in the state administration and self- government,
- current problems of education and training crisis managers,
- specifics of crisis planning,
- safety as an assumption for business continuity management,
- current problems of risk management in Slovak enterprises,
- risk assessment and management in the prevention of industrial accidents and transposition of the SEVESO III. – the directive to EU member states.

Section No.2: **Security Management – Protection of Persons and Property**

prof. Ing. Ladislav HOFREITER, CSc.

prof. Ing. Tomáš LOVEČEK, PhD.

- principles and practices of security management,
- current trends in persons and property protection,
- systems of premises protection - projecting and evaluation
- crime prevention and methods of prevention management,
- prospects for development the sector of private security,
- status and development of security situation in Slovak republic.

Section No.3: **Critical Infrastructure Protection in Transportation and Energetic Sectors**

prof. Ing. Zdeněk DVOŘÁK, PhD.

doc. Ing. Bohuš LEITNER, PhD.

- actual tasks in critical infrastructure protection,
- risk management in critical infrastructure with focus on transportation and energetic sectors,
- possibilities of modelling and simulation of threats and ways of critical infrastructure protection,
- dependences of critical infrastructure sectors and subsectors,
- control and information systems of critical infrastructure,
- critical infrastructure elements entity protection using unmanned devices,
- research and education in critical infrastructure protection.

Section No. 4: **Fire prevention, protection and Rescue Services**

doc. Ing. Vladimír MÓZER, PhD.

prof. Ing. Jana MÜLLEROVÁ, PhD.

- efficiency evaluation of fire protection measures,
- building fire safety and fire protection systems,
- chemistry of fire and suppression,
- explosion protection,
- fire-fighting and rescue work tactics and fire-fighting equipment,
- integrated rescue system,
- industrial disasters and their consequences,
- fire and disaster investigation.

Accompanying events of conference:

XV. International Scientific Conference of Young Scientists and PhD Students **Young Science - Science and Crisis Situations**

Workshop: **Possibilities to increase the security of citizens and their property in municipalities through preventive measures**



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Overall conference programme:

Conference: Crisis Situations Solution In Specific Environment

23 th May 2018
9.00 – 10.00 h Registration of participants
10.00 – 10.15 h Opening of the conference
10.15 – 10.45 h Plenary session
10.45 – 11.00 h Coffee break
11.00 – 12.30 h Plenary session
12.30 – 14.00 h Lunch
14.00 – 15.30 h Plenary session
15.30 – 16.00 h Coffee break
16.00 – 18.00 h Plenary Sessions
19.00 h Informal evening (banquet)

24 th May 2018
9.00 – 10.15 h Sessions or workshop
10.15 – 10.45 h Coffee break
10.45 – 12.00 h Sessions or workshop
12.00 h Lunch

Conference: Young Science - Science and Crisis Situations

24 th May 2018
9.00 – 10.15 h Conference
10.15 – 10.45 h Coffee break
10.45 – 12.00 h Conference
12.00 – 13.30 h Lunch
13.30 – 14.45 h Conference
14.45 – 15.00 h Coffee break
15.00 – 16.00 h Conference

Conference languages: & Slovak & Czech & English

The Organizing Committee:

The conference is organized by the – Faculty of Security Engineering, University of Žilina. 1. mája 32, 010 26 Žilina, <http://www.fbi.uniza.sk>

Secretary of the Conference:

Ing. Katarína Buganová, PhD. – the main organizer of the conference, tel.: 00421- 41- 513 6748,

Ing. Milan Goč – logistical and financial support of the conference, tel.: 00421- 41- 513 6603

Ing. Michal Titko, PhD. – editor of the Proceedings of the conference, tel.: 00421- 41- 513 6713

Organizational instructions:

Website and E- mail of conference: <http://www.fbi.uniza.sk/kkm/>, crisis@fbi.uniza.sk, fax: 00421- 41- 513 6620,

Place of the Conference: The University of Žilina, Slovakia, Žilina - Veľký Diel, hall DATALAN, street: Univerzitná 8215/1

Conference fee:

100€ price including VAT – (includes: conference materials, CD with proceedings [with all papers], lunches, dinner with banquet).

70€ price including VAT – only for only for PhD students and young scientists under the age of 35 who are actively participating in the conference **Young Science- Science and Crisis Situations** (the fee includes 2 days of conference).

The application form and abstract should be sent back no later than **24th March 2018** to the Conference Secretary address or e-mail.

According to your application we will send you conference information and we are asking you to confirm your participation together with the final paper manuscript in size to maximum eight pages and written following attached pattern, no later than **10th April 2018** (via **e-mail**). The articles will be peer-reviewed by independent reviewers. Conference program will be sent to all participants till **12th May 2018**.

Send all the documents called "Last Name" participant to E-mail: crisis@fbi.uniza.sk.

For each section will select 3 best entries and following consultation of the authors of the amendments on the extent of 10-12 pages will be published in a special issue of the scientific and technical magazine Crisis Management <http://fbi.uniza.sk/kkm/casopis.html>.

Important dates:

Sending application and annotation of paper to the conference	24. 3. 2018
Papers submission and binding registration form	10. 4. 2018
Notification of the Scientific Committee on Contributions and Reviews	24. 4. 2018
Payment of conference fee and sending advice	28. 4. 2018
Submission of a detailed program of the conference	12. 5. 2018