

## CONFERENCE PROGRAMME



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**Air Navigation Services  
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University of Defence  
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General Staff of ACR  
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VŠB – Technical University of Ostrava  
University of Žilina

<b>08:30 – 17:00</b>	<b>Registration</b>
<b>08:45 – 09:15</b>	<b>Poster Sessions</b>
<b>09:30 – 09:50</b>	<p><b>Introductory Remarks and Welcome Speech</b> - LTC Jan MAZAL - MARS Chairman; Deputy Head of Department of Tactics, Faculty of Military Leadership, University of Defence, CZE</p> <p><b>Welcome Speech</b> - Mr. Tomáš KUČHTA - Deputy Minister of Defence, Head of the Industrial Cooperation and Organisations Management Division, CZE</p> <p><b>Welcome Speech</b> - Prof. Petr KONVALINKA - Rector of the Czech Technical University in Prague, Head of the Experimental Centre, Faculty of Civil Engineering, CZE</p>
<b>09:50 – 12:30 MORNING SESSION 1 - LESSONS LEARNED, FUTURE TRENDS, CONCEPTS, R&amp;D</b>	
Moderated by: Mr. Milan ROLLO - Researcher, Czech Technical University in Prague, CZE	
<b>09:50 – 10:10</b>	<p><b>Drones - Opportunities and Challenges – Aviation Authority Perspective</b> Mr. Tomáš ČOČEK – 1st Deputy Minister of Transport – State Secretary, CZE</p>
<b>10:10 – 10:30</b>	<p><b>More Autonomous Systems</b> Mr. Thomas KILLION - NATO Chief Scientist, NATO</p>
<b>10:30 – 10:50</b>	<p><b>The Challenge of Autonomous Systems for Future Force Development</b> MG John W. CHARLTON - Vice Director for Joint Force Development, J7 (Suffolk), US Joint Staff J7, USA</p>
<b>10:50 – 11:10</b>	<b>Coffee Break &amp; Networking</b>
<b>11:10 – 11:30</b>	<p><b>Generic Policies and Actions we Need Address Today to Ensure we Have the Knowledge, Skills and Infrastructure</b> Mr. Martin HILL - Chairman of NATO Industrial Advisory Group (NIAG), Senior Consultant for Thales for NATO and EDA, GBR</p>
<b>11:30 – 11:50</b>	<p><b>Conception of Using of Unmanned Systems</b> Platinum Partner Presentation - Mr. Lukáš NOVÁK - Research and Development, Military Technical Institute</p> <p>Stand No. 309</p>
<b>11:50 – 12:10</b>	<p><b>Topic TBD</b> MG Paul BENENATI - Deputy Chief of Staff, U.S. Army Training and Doctrine Command (TRADOC), USA</p>
<b>12:10 – 12:30</b>	<p><b>Trends and Challenges in Autonomous Logistics for Future Operations</b> Mr. Paul D. ROGERS - Director of U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC), USA</p>
<b>12:30 – 13:30</b>	<b>Lunch Break &amp; Networking</b>
<b>13:00 – 13:15</b>	<b>Poster Sessions</b>



*Designated time for a presentation includes time for questions from the audience.  
The order of speakers and timings may be changed.*

## 13:30 – 17:00 AFTERNOON SESSION 1 - LESSONS LEARNED, FUTURE TRENDS, CONCEPTS, R&D

Moderated by: Mr. Milan ROLLO - Researcher, Czech Technical University in Prague, CZE

### 13:00 – 13:15 Poster Sessions

- 13:30 – 13:50 **Human – Robotic & Autonomous Systems Teaming (H-RAST) Beyond 2030**  
Mr. Earl W. POWERS - Research Fellow, Potomac Institute for Policy Studies, Center for Emerging Threats and Opportunities (CETO), USA
- 13:50 – 14:50 **Robots that Need to Mislead: Biologically-inspired Machine Deception**  
Prof. Ronald C. ARKIN - Regents' Professor & Director of the Mobile Robot Laboratory, Associate Dean for Research & Space Planning, College of Computing, Georgia Institute of Technology, USA
- 14:50 – 15:10 **Autonomous Cars: Opportunities and Threats for the Military**  
Mr. Robert FINKELSTEIN - President, Robotic Technology Inc., USA
- 15:10 – 15:40 **Coffee Break & Networking**
- 15:40 – 16:00 **The Black Hornet – A Life Saver and a Game Changer**  
Industry presentation - Mr. Thomas TORJUSSEN - Key Account Manager, Prox Dynamics AS  
Stand No. 388
- 16:00 – 16:20 **New Challenges and Missions for Autonomous Systems operating in Multiple Domains within Cyber and Hybrid Warfare Scenarios**  
Prof. Agostino BRUZZONE - President of Simulation Team & MIPET Full Professor, DIME, University of Genova, ITA
- 16:20 – 16:40 **Collision Avoidance**  
Mr. Christoph SULZBACHNER - Senior Engineer, Austrian Institute of Technology, AUT
- 16:40 – 17:00 **Session 1 Closing Remarks** - LTC Jan MAZAL - MARS Chairman; Deputy Head of Department of Tactics, Faculty of Military Leadership, University of Defence, CZE



08:30 – 14:00 Registration

08:45 – 09:15 Poster Sessions

09:30 – 09:40 **Introductory Remarks and Welcome Speech** - LTC Jan MAZAL - MARS Chairman; Deputy Head of Department of Tactics, Faculty of Military Leadership, University of Defence, CZE

## 09:40 – 14:30 SESSION 2 – ADVANCED AUTONOMOUS AND ROBOTIC SYSTEMS, ARTIFICIAL INTELLIGENCE, CONTEMPORARY & FUTURE APPLICATIONS

Moderated by: Mr. Milan ROLLO - Researcher, Czech Technical University in Prague, CZE

09:40 – 10:00 **What „Unmanned“, „Autonomous“ and „Swarm“ Could Mean and Implicate Tomorrow for Military Next Generation of Systems?**  
Mr. Jean MARCHAL - Project Officer “Experimentation, Systems of Systems, Space, and Modelling & Simulation”, EDA

10:00 – 10:20 **UAVs Applications for Border Surveillance (Maritime and Land)**  
Dr. Dimitrios GKRITZAPIS - Captain of Hellenic Police in the Office of Research and Development (R&D) in the Criminal Investigation Division, GRC  
Mr. Zacharias SARRIS - Expert in Area of UAVs Research & Development, Systems Integration Activities of Defense, Security and Innovative Technology Programs, GRC

10:20 – 10:40 Coffee Break & Networking

10:40 – 11:00 **Mitigation Threats from UAS and Possible Use of UAS for Perimeter Protection at Specific Civil Airport Conditions**  
Gold Partner Presentation - Ms. Sabina LAJDOVÁ - Security Systems Specialist, Prague Airport



11:00 – 11:20 **Autonomous Functions of TAROS – Tactical Robotic System**  
FFF Partner Presentation - Mr. Jan DVOŘÁK - Head of the Electrical Department, VOP CZ  
Stand No. 332



11:20 – 11:40 **Robot Needs Assessment and Issues Discovered from Tactical SWAT Team Exercises**  
Mr. Roger L. KING - Executive Director of the Institute for Computational Research in Science and Engineering, USA

11:40 – 12:40 Lunch Break & Networking

12:10 – 12:30 Poster Sessions

12:40 – 13:00 **Distributed Control of Heterogeneous Team of Autonomous UAVs**  
General R&D Partner Presentation - Mr. Milan ROLLO - Researcher, Artificial Intelligence Center, CTU in Prague, CZE

Stand No. 442 and 369



13:00 – 13:20 **Advanced Robotics - A Humanitarian Perspective „The Evolution of Warfare: Implications for Humanitarian Action“**  
Mr. Jamie A. WILLIAMSON - Head of Unit, International Committee of the Red Cross, ICRC

13:20 – 13:40 **Cybersecurity - Threat and Governance Model for the Use of Autonomous Machines in Built and Connected Environments**  
Ms. Ina G. WANCA - Adjunct Professor, John Jay College of Criminal Justice, New York; Director of Cybercrime Prevention, Crime Commission of NYC; Outreach Chair and UN Delegate, Council of American Students (CASIN), USA

13:40 – 14:00 **Air Robotic Vehicles of Military Technical Institute**  
Platinum Partner Presentation - Mr. Jiří NOHÝL - Researcher, Military Technical Institute

Stand No. 309



14:00 – 14:15 **Conference Closing Remarks** - LTC Jan MAZAL - MARS Chairman, Deputy Head of Department of Tactics, Faculty of Military Leadership, University of Defence, CZE

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