



**PROGRAMME**

**WEDNESDAY, 17 OCTOBER 2018  
PVA EXPO PRAHA, HALL 2**

**10:00 - 13:15**     **Registration**

**12:45 - 13:15**     **Poster Sessions**

**13:30 - 14:00 CONFERENCE OPENING**

**INTRODUCTORY REMARKS:**     [Mr. Jakub ŽELEZNÝ](#) – Moderator, Czech Television, CZE

**KEYNOTE SPEECH:**     [GEN Petr PAVEL](#) – Former Chairman of the NATO Military Committee, CZE

[Mr. Zdeněk JELÍNEK](#) - Director of the Civil Aviation Department, Ministry of Transport, CZE

[Mr. Thomas KILLION](#) – Chief Scientist, Science and Technology Organization, NATO

[LTC Jan MAZAL](#) – Chairman MARS Conference; Doctrine Education and Training Branch Chief, NATO Modeling & Simulation Centre of Excellence, NATO

**14:00 - 16:00 DISCUSSION FORUM/PLENARY – Topics at Strategic Level:**

- *UAVs/Drones – Potential of the Future; Civil - Military - Security Forces Cooperation*
- *Artificial Intelligence – Pros & Cons*
- *Regulatory Processes – Implementation, Effectivity, Enforcement*
- *Ethical, Moral, and Legal Aspects of UAVs/Drones Usage*

**MODERATOR:**     [Mr. Jakub ŽELEZNÝ](#) – Moderator, Czech Television, CZE

**PANELISTS:**     (in alphabetical order)

[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

[Prof. Agostino BRUZZONE](#) – President of Simulation Team & MIPET Full Professor, DIME, University of Genova, ITA

[Mr. Thomas C. IRWIN](#) – Executive Director, Joint Training Joint Force Development, Joint Chiefs of Staff, Joint Staff J7, US Department of Defense , USA

[Mr. Thomas KILLION](#) – Chief Scientist, Science and Technology Organization, NATO

[Mr. Jan KLAS](#) – Director General, Air Navigation Services of the Czech Republic, CZE

[Mr. Zdeněk KUČERA](#) - Head of the Dispute Resolution and TMT practices at Kinstellar’s Prague office, CZE

[NAVY CAPT Vincenzo MILANO](#) – Director NATO Modeling & Simulation Centre of Excellence, NATO

[Mr. Kevin MILLS](#) – Associate Director of Robotics for Tank Automotive Research Development and Engineering Center (TARDEC), USA

[GEN Petr PAVEL](#) - Former Chairman of the NATO Military Committee, CZE

[Prof. Michal PĚCHOUČEK](#) – Department of Computer Science, Czech Technical University in Prague, CZE

[CDR Joe STRASSBERGER](#) - OF-4 US Navy, Concept Development Branch, NATO SACT, NATO

08:30 - 09:15

Registration

09:00 - 09:15

Poster Sessions

09:30 - 12:00

MARS CONFERENCE

09:30 - 09:50

INTRODUCTORY  
REMARKS:

[LTC Jan MAZAL](#) – Chairman MARS Conference; Doctrine Education and Training Branch Chief, NATO Modeling & Simulation Centre of Excellence, NATO  
[Mr. Milan ROLLO](#) – Researcher; Vice-chairman MARS Conference, Czech Technical University in Prague, CZE

09:50 - 10:10

**Autonomy and AI: Key Enablers for future NATO Capabilities**

[Mr. Thomas KILLION](#) – Chief Scientist, Science and Technology Organization, NATO

10:10 - 10:30

**Drones and Digital Airspace: Opportunities and Challenges from Perspective of Ministry of Transport**

[Mr. Tomáš PUSTINA](#) – Head of Unit at the Civil Aviation Department, Ministry of Transport, CZE

10:30 - 11:00

**US DoD Visions/Strategy in Autonomous Systems and Robotic implementation in Future Warfare/ US Army Development**

[Mr. Thomas C. IRWIN](#) – Executive Director, Joint Training Joint Force Development, Joint Chiefs of Staff, Joint Staff J7, US Department of Defense , USA

11:00 - 11:30

**Multi-domain Integrative Architectures for multirobot teams: Land, Sea, Air and now Subterranean**

[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

11:30 - 12:00

Digital Dust

[BG \(Ret.\) Ofer TSAFRIR](#) - Maneuvering Program Manager, Bagira Sytems, ISR

12:00 - 13:00

Lunch & Networking

12:45 - 13:00

Poster Sessions

13:00 - 16:00

MARS CONFERENCE

13:00 - 13:20

**NATO ACT Autonomy Program Overview and Strategy/Vision**

[CDR Joe STRASSBERGER](#) – OF-4 US Navy, Concept Development Branch, NATO SACT, NATO

13:20 - 13:40

**Looking ahead for Beyond Line of Sight**

[Mr. Christoph SULZBACHNER](#) – Senior Engineer, Austrian Institute of Technology, AUT

13:40 - 14:00

**The US Army's Approach to Unmanned Mobility**

[Mr. Kevin MILLS](#) – Associate Director of Robotics, US Army Training and Doctrine Command (TARDEC), USA

14:00 - 14:20

**Drones – knowledge and experience of their use under the conditions of the Czech Fire Brigade**

[COL Ondřej SUCHÝ](#) – Technical Institute of Fire Protection in Prague, CZE

14:20 - 14:40

Coffee Break & Networking

14:40 - 15:00

**GOLD Partner presentation – Military Technical Institute  
Perspective Unmanned VTU s. p. Systems for ACR**

[Mr. Jiří NOHÝL](#) – Researcher, Military Technical Institute, CZE



15:00 - 15:20

**Eagle.one – Autonomous drone hunter using onboard AI for safe elimination of unauthorized aerial systems**

[Mr. Martin SASKA](#) – Senior researcher, [MRS](#), Czech Technical University in Prague, CZE

15:20 - 15:40

**Future Imperfect - Conundrum of Suddenly Human and Bio-Convergent: What Will the Future Army Look Like in 2050? Cybersecurity and Governance Considerations for the Use of Military Advanced Robotic Systems in Smart Environments**

[Ms. Ina WANCA](#) – Professor at NYU, and John Jay College of Criminal Justice. Founder of AI Governance, USA

15:40 - 16:00

**MARS Summary and Conference Closing Remarks**

[LTC Jan MAZAL](#) – Chairman MARS Conference; Doctrine Education and Training Branch Chief, NATO Modeling & Simulation Centre of Excellence, NATO

[Mr. Milan ROLLO](#) – Researcher; Vice-chairman MARS Conference, Czech Technical University in Prague, CZE

16:15 - 17:00

SOCIAL EVENT FOR SPEAKERS, Leonardo Helicopters VIP Lounge, Hall 4