Vážení kolegové,

v tomto dokumentu máte přehled nově navržených výzkumných aktivit Organizace pro vědu a technologie NATO, kterých se mohou zúčastnit experti z České republiky.

V případě zájmu nebo upřesnění detailů některých aktivit nás můžete kdykoliv kontaktovat viz kontakty v zápatí.

Význam zkratek:

AVT – Panel Applied Vehicles Technologies
HFM – Panel Human Factors and Medicine
IST – Panel Information System Technologies
MSG – Skupina Modeling and Simulation Group
SAS – Panel System Analysis Studies
SCI – System Concept Integration
SET – Sensors Electronic Technologies

Class – označení utajované klasifikace[1]

NU – NATO Unclassified
UU – NATO Public Release
NR – NATO Restricted (bezpečnostní prověrka je vyžadována)
NC – NATO Confidential (bezpečnostní prověrka je vyžadována)
NS – NATO Secret (bezpečnostní prověrka je vyžadována)

Typy aktivit:

RTG – Research Task Group
RSM – Research Specialist Meeting
RLS – Research Lecture Series
RWS – Research Workshop
RTC – Research Technical Course
ET – Exploratory Team (přípravné jednání před vlastní aktivitou s cílem stanovit cíle, obsah a záměr realizace aktivity)
ST – Specialist Team

[1] Navrhované aktivity klasifikované NR, NC a NS nejsou v seznamu z bezpečnostních důvodů uvedeny

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Návrhy nových aktivit Organizace pro vědu a technologie NATO
jaro 2023

Panel	Number	Type	Status	Class	Title	Starts
AVT	AVT-ET-240	ET	Proposed	NU	Implementation strategies for environmentally compliant materials and processes	01.07.2023
AVT	AVT-SCI-ET-241	ET	Proposed	NU	Electro-optic scatterometry - application in computational platform signature modelling	01.07.2023
AVT	AVT-ET-242	ET	Proposed	NU	Control Allocation for Complex Vehicle Control Systems	01.07.2023
AVT	AVT-ET-243	ET	Proposed	NU	Critical Energetic Materials development of sustainability	01.07.2023
AVT	AVT-ET-244	ET	Proposed	NU	Digital System Models for Integrated Propulsion, Power & Thermal Systems for Military Aircraft	01.07.2023
AVT	AVT-SP-010	SP	Proposed	UU	Measurement of vegetation parameters to determine the passability of forests by military vehicles in Central and Eastern Europe	01.01.2024
AVT	AVT-IST-398	RTG	Proposed	NU	Development of a STANREC for Augmented Reality in Land Platforms	01.01.2024
AVT	AVT-395	RTG	Planning	NU	Enhanced weapons performance through new energetic molecules/formulations/processing	01.01.2024
AVT	AVT-380	RTG	Planning	NU	Ground Vehicle Ride Quality Testing and Analysis with Complex Terrain	01.01.2024
AVT	AVT-381	RTG	Planning	NU	Maintenance Modeling in UxV Design for Improved Readiness & Endurance	01.01.2024
AVT	AVT-382	RTG	Planning	NU	Dynamic Reconfigurable Mission Planning for Improved Readiness of Autonomous Military Vehicles	01.01.2024
AVT	AVT-383	RTG	Planning	NU	Paint removal test protocol and application guidelines	01.01.2024
AVT	AVT-386	RTG	Planning	NU	Assessment of vortex-vortex interaction and cavitation inception	01.01.2024
AVT	AVT-387	RTG	Planning	NU	Common Research Wind Tunnels for CFD Verification and Validation	01.01.2024
AVT	AVT-388	RTG	Planning	NU	Operation of Unmanned Aerial Vehicles (UAVs) in Icing Environments	01.01.2024
AVT	AVT-389	RTG	Planning	NU	Understanding Risk due to Reynolds Scaling Effects on the Stability and Control for Future Combat Aircraft Development	01.01.2024

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Panel	Number	Type	Status	Class	Title	Starts
AVT	AVT-390	RTG	Planning	NU	Vortex Flow Predictions for Stability and Control of Missile Airframes	01.01.2024
AVT	AVT-392	RTG	Planning	NU	Assessment of numerical methods for complex flow over marine control surfaces	01.01.2024
HFM	HFM-377-T-RSY	RSY	Proposed	UU	Meaningful Human Control in Information Warfare	01.09.2023
HFM	HFM-376-RTC	RTC	Proposed	NU	Aerospace Medicine: Forward Together	01.09.2023
HFM	HFM-371-RSM	RSM	Proposed	NU	Blast Exposure Monitoring in Military Training and Operations (BEMMTO)	01.10.2023
HFM	HFM-372-RTG	RTG	Proposed	NU	Guidelines for Evaluation of Personal Protective Materiel and Systems Against Blast	01.10.2023
HFM	HFM-373-RTG	RTG	Proposed	NU	Technology Enablers and Force Multipliers for CogWar: From Monitoring and Assessment to AI-based Assistance and Automation systems	01.10.2023
HFM	HFM-368-RTG	RTG	Proposed	NU	Gender, Inclusive Leadership and Sustainable Security	01.10.2023
HFM	HFM-369-RWS	RWS	Proposed	NU	Leader Development for NATO Multinational Military Operations	01.10.2023
HFM	HFM-374-RTG	RTG	Proposed	NU	COGARMY: COGnitive training and teamwork assessment of ARMY personnel	01.10.2023
HFM	HFM-MSG-375-RSM	RSM	Proposed	UU	Human Digital Twin in the Military: findings and perspectives	01.10.2023
HFM	HFM-367-RTG	RTG	Proposed	NU	Pre-Symptomatic Detection of Biological Exposures	01.10.2023
HFM	HFM-ET-217	ET	Planning	NU	CBRN Medical Support Deep Dive and Future Optimization of CRBN Casualty Care	01.10.2023
HFM	HFM-ET-209	ET	Planning	UU	Spiritual Dimension of military health	01.10.2023
HFM	HFM-ET-210	ET	Planning	NU	International Military Human Participation Research: Cross Cultural Applications	01.10.2023

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HFM	HFM-ET-211	ET	Planning	NU	Endovascular Hemorrhage Control in Combat Casualties: Best Practices, Technology, and Training Harmonization	01.10.2023
HFM	HFM-ET-212	ET	Planning	NU	Evaluation Criteria and Use Cases for Information Operation/Social Media Simulators	01.10.2023
HFM	HFM-ET-214	ET	Planning	NU	Cognitive Security: building and maintaining resistance to offensive cognitive strategies	01.10.2023
HFM	HFM-ET-215	ET	Planning	UU	The Ethical and Legal Challenges of Cognitive Warfare	01.10.2023
HFM	HFM-ET-216	ET	Planning	NU	Methods and Weapons of Adversary Cognitive Warfare	01.10.2023
HFM	HFM-370-T-RTG	RTG	Cancelled	NU	AI-based Assistance and Automation systems for Cognitive Security, Defense, and Warfare	01.10.2023
HFM	HFM-IST-ET-213	ET	Cancelled	NU	Visualization of Cognitive Warfare Situational Awareness	01.10.2023
HFM	HFM-ET-198	ET	Active	UU	The applicability of the Value-Based Healthcare concept in NATO (operational) Military Health Systems	22.05.2023
HFM	HFM-ET-203	ET	Active	NU	Optimized Menstrual Health in Servicewomen	24.05.2023
HFM	HFM-ET-206	ET	Active	NU	Biomanufacturing of National Security Materials	31.05.2023
HFM	HFM-ET-196	ET	Active	NU	Enhanced Physical Protection and Hazard Management in CBRN Defence	01.09.2023
IST	IST-212 (AI2S)	ST	Proposed	NU	Addressing New and Emerging C4I Challenges and creating impact in the Current Battlefield Environment	01.07.2023
IST	IST-205 (COM)	RSY	Proposed	UU	IST Annual Symposium 2024 - International Conference on Military Communication and Information Systems (ICMCIS)	03.07.2023
IST	IST-206 COM	RTG	Proposed	NU	Interoperability for Cooperating Unmanned Ground Vehicles	03.07.2023
IST	IST-207 (AI2S)	RTG	Proposed	NU	Military Applications for Large Language Models	03.07.2023
IST	IST-AVT-213 (AI2S)	RTG	Proposed	UU	Implementation, Integration and Development of Augmented Reality in Land Platforms	03.07.2023

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IST	IST-ET-126	ET	Proposed	NU	6G Telecommunications (part of response to EDT)	01.09.2023
IST	IST-208 (COM)	RSY	Proposed	UU	Towards the convergence of Edge Computing, Adaptive Networking, and Information Management at the Tactical Edge	01.09.2023
IST	IST-SET-204 (COM)	RTG	Proposed	NU	RF based detection and classification of UAS	01.09.2023
IST	IST-211 (IWA)	RTG	Proposed	NU	Tools and Methods for Analyzing Cyber Security for Federated Autonomous Vehicles	04.09.2023
IST	IST-209 (COM)	RSY	Proposed	UU	IST Annual Symposium 2025 - International Conference on Military Communication and Information Systems (ICMCIS)	01.07.2024
IST	IST-210 (AI2S)	RSY	Proposed	UU	AI Security and Assurance for Military Systems	01.09.2024
IST	IST-203 (COM)	RSM	Planning	UU	Wireless Communications Standardization in NATO	24.10.2023
MSG	MSG-218	RSY	Proposed	UU	MSG/MSCO Support to International Training & Education Conferences IT2EC, I/ITSEC and CA2X2 Forum 2024	01.07.2023
MSG	MSG-219	ST	Proposed	UU	Domain Specific Language (DSL) for Modeling & Simulation (M&S)	01.09.2023
MSG	MSG-HFM-220	ST	Proposed	UU	Effectiveness of Medical Training based on eXtended Reality	01.09.2023
MSG	MSG-221	RTG	Proposed	NU	M&S in support of Building Resilience and Management of People Mass Movement	01.09.2023
MSG	MSG-222	RTG	Proposed	NU	Representing Human Behavior and Decision-making in Modelling and Simulation	01.10.2023
MSG	MSG-217	RSY	Proposed	UU	NMSG Annual Symposium 2024	01.01.2024
MSG	MSG-204	ST	Planning	NU	NMSG support to Distributed Synthetic Training (DST) A2CD2 efforts	19.06.2023
MSG	MSG-211	RTC	Planning	UU	Modelling and Simulation Standards in NATO Federated Mission Networking	01.07.2023
MSG	MSG-ET-054	ET	Planning	NU	Unified network architecture and interface declaration for live fire exercise systems on shooting ranges and military training areas	01.08.2023

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MSG	MSG-212	ST	Active	NU	M&S in Federated Battle Labs for Collaborative Concept Development and Experimentation (CD&E)	24.05.2023
MSG	MSG-214	ST	Active	NU	M&S for Operational Mission Support	21.06.2023
SAS	SAS-HFM-184	ST	Proposed	NU	Carbon Footprint Assessment of Military Organizations and Operations and related Logistics	01.06.2023
SAS	SAS-185	RTG	Proposed	NU	Indicators and Warnings for Cognitive Warfare in Cyberspace	01.06.2023
SAS	SAS-189	RTG	Proposed	NU	Anticipatory Intelligence for Superior Decision-Making	01.07.2023
SAS	SAS-187	RWS	Proposed	NU	Understanding Strategic Culture	01.09.2023
SAS	SAS-188	RTG	Proposed	NU	Analytic Support for Military Adaptation in War	01.09.2023
SAS	SAS-186	RTC	Proposed	UU	Designing effective visualizations for defence investment uncertainty and risk	07.09.2023
SAS	SAS-ET-FJ	ET	Planning	NU	Communicating and disseminating the scientific opportunities offered by NATO within universities	01.06.2023
SCI	SCI-357	RTG	Proposed	NU	Comparison of Allied Nations Space Strategies	01.10.2023
SCI	SCI-361	RSM	Proposed	NU	Systems and Concept Challenges in enabling Multi-Domain Operations (MDO)	01.12.2023
SCI	SCI-ET-064	ET	Proposed	NU	Design and test of multispectral decoys for land warfare	01.01.2024
SET	SET-HFM-328	RTG	Proposed	NU	Sequencing for Environmental Aerosol Background Monitoring	24.07.2023
SET	SET-329	RTG	Proposed	NU	Radar Signature Measurement and Validation of a UCAV Model	11.09.2023
SET	SET-331	RSM	Proposed	NU	Photonic Integrated Circuits	01.10.2023
SET	SET-330	RTG	Proposed	NU	Algorithms as Observers: The Future of Imaging System Design, Modeling, and Testing	09.10.2023
SET	SET-ET-132	ET	Planning	NU	Quantum Algorithms for Data Fusion and Resources Management	20.09.2023
SET	SET-ET-134	ET	Planning	NU	Using Simulation to train AI for Automated Scene Understanding	20.09.2023
SET	SET-325	RTG	Active	NU	Shortwave Infrared Technology: Irradiance Measurements to Evaluate Reflective Band Systems	15.06.2023

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