

This project has received funding from the European Union's Preparatory Action for Defence Research - PADR programme under grant agreement No 884866 [AIDED]



Artificial Intelligence for Detection of Explosive Devices (AIDED)

Under the Preparatory Action on Defence Research (PADR), the grant for the Research Action call on the topic 'Future Disruptive Defence Technologies – Emerging Game-changers', subtopic (2) 'Artificial Intelligence (AI) for defence' was signed on 22 September 2021. The awarded project, called AIDED, is led by Space Applications Services (Belgium). The consortium encompasses a total of 4 participants from 3 countries. The project, which has a duration of 27 months, will receive an EU grant of roughly € 1,5 million.

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Name of the project		Artificial Intelligence for Detection of Explosive Devices		
Short name		AIDED		
	nmary of the project			
unc dev nav in a train (Gro LIBS dete AIDI	ED project will use a set of state-o onventional (Improvised Explosive ices, to autonomously plan offline igation and mapping to control a fle high-risk area. Al-Machine Learni ned using simulated and outdoor da ound Penetrating Radar), EMI (Elect S (Laser Induced Breakdown Spe ection and classification of IEDs by ED will also develop Al-based cent	Devices - IEDs) an e and run-time mis eet of robots that co- ing techniques such ata sets for the dete rromagnetic Induction ctroscopy) and fus removing outliers a tralized and decent	d conventional (Bui sions plans and to operate quickly to id as deep learning action of IEDs using s on) array, infrared or ing them to improvind false detection.	ried Mines) explosive p provide positioning, lentify a safe passage will be designed and sensor data from GPR thermal cameras and ve the confidence of
coo Pos	rm of small and medium hete peratively towards the goal of det itioning, Navigation and Mapping ustness and standalone operation	ecting IEDs that ar will also be based	e on the surface, b on Al-machine lea	ouried or hidden. The
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