



## **DANTE OBJECTIVES AND PARTICIPATION IN INTERNATIONAL EVENTS**

DANTE is an innovative system which provides a set of tools and processes to support law enforcement authorities in their everyday work. The proposed system significantly reduces the investigation time by automatically detecting relevant terrorist-related data in surface and deep web, by monitoring and categorizing suspect terrorist related activities in multi-language context and by quickly identifying terrorist online activities and communities.

In order to boost the visibility and to disseminate the results of the project, DANTE participated to major European events organized with the aim to develop and implement appropriate countermeasures to enable the Law Enforcement Agencies (LEAs) to continuously monitoring in near real time on-line relevant for the purposes of counter terrorism and to exchange information to build synergies: the MMM19 and the Workshop of Polarization, Radicalization and Ideology. Moreover, also other types of events were organized: the General Assemblies held in Rome and Madrid, the Final conference and the last workshop which took place in Rome.

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### **MMM19 - 25th International Conference on Multimedia Modeling (January 2019)**

The DANTE project (in collaboration with the sister project ASGARD) organized a special session entitled “Large-scale big data analytics for online counter-terrorism applications” in the 25th International Conference on Multimedia Modeling MMM’19, a leading international forum for researchers and industry practitioners to share new ideas, original research results and practical development experiences from all multimedia-related areas, which was held from 8<sup>th</sup> to 11<sup>th</sup> January 2019, in Thessaloniki, Greece. The special session targeted the study, design, development and dissemination of effective (in terms of precision and accuracy), efficient (in minimal time), automated (with limited human intervention) Big Data analytics solutions, to search and retrieve, collect and analyse huge amounts of heterogeneous and complex terrorist-related data from both the Surface and the Deep Web, in order to discover, detect, analyse and monitor any possible aspect of potential terrorist-related activities, with particular focus on the following most commonly met and potentially most hazardous ones: propaganda, fund-raising and training. The special session in principle leveraged the results of DANTE.

Project partners CERTH, INNOVATION ENGINEERING, VOCAPIA, UTRC and AGNITIO attended the conference and presented DANTE aims and goals during the dedicated sessions held on January 11<sup>th</sup>, 2019. The representatives of the project partners exhibited the latest results and progresses of DANTE and many among stakeholders, researchers and end-users gathered to know more about the project innovative system of detection and analysis of terrorist-related online contents.

During the session papers were presented in order to cover topics related to the discovery, detection, analyzation and monitoring of any possible aspect of potential terrorist-related activity:

- Luis Lebron Casas and Eugenia Koblents. Video Summarization with LSTM and Deep Attention Models
- Jodie Gauvain, Lori Lamel, Viet Bac Le, Julien Despres, Jean-Luc Gauvain, Abdel Messaoudi, Bianca Vieru, and Waad Ben Kheder. Challenges in Audio Processing of Terrorist-related Data
- Andrea Ciapetti, Giulia Ruggiero, and Daniele Toti. A Semantic Knowledge Discovery Framework for Detecting Online Terrorist Networks
- Konstantinos Gkoutakos, Theodoros Semertzidis, Georgios Th. Papadopoulos, and Petros Daras. A Reliability Object Layer for Deep Hashing-based Visual Indexing
- Jesús Jorrín and Luis Buera. DANTE Speaker Recognition Module. An Efficient and Robust Automatic Speaker Searching Solution for Terrorism-related Scenarios



## **Workshop of Polarization, Radicalization and Ideology held by the European Commission (January 2019)**

The DANTE project was presented during the Workshop on Polarization, Radicalization and Ideology, held in Brussels on 10<sup>th</sup> January 2019. Seventeen projects participated in a lively information exchange that identified synergies and discussed future work. DANTE was represented by Ernesto La Mattina (ENG), Stefano Fantin (KUL) and Sylvie Dias (PJ) which have explained the innovative technology of the DANTE system and how useful could be for the practitioners in their day-by-day activities.

Among other aspects, the round table has represented an important opportunity for knowledge sharing towards the phenomenon and addressing potential solutions according to the priorities highlighted by the LEAs.

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## **DANTE General assembly in Madrid (January 2019)**

The DANTE project meeting took place in Madrid (Spain) on 17<sup>th</sup> January 2019 and it was hosted by project partner Expert System. The consortium met together to provide an overview of the project advances and to discuss the organisation of the final events in Rome.

In order to present an overview of the work completed up to date and the latest results of the project, each project partner have presented its work package, highlighting the updates and progresses achieved.

During this event, the consortium attention also focused on the second pilot round for UC2, a session organized by project partner CERTH. Representatives from the LEAs attended the event and had the chance to use the DANTE system, focalizing on the use cases two, and then to evaluate the platform by using the evaluation form provided by the project consortium.





## DANTE General Assembly in Rome, 18-21 February 2019

The final events of the DANTE project were held in Rome, from 18<sup>th</sup> to 21<sup>st</sup> February 2019. The meeting was a four-days events during which partner INNOVATION ENGINEERING coordinated the second pilot round for UC1 and UC3. Carabinieri had the chance to use the latest version of the DANTE platform and to rate it with the support of an evaluation form: they described the system as very interesting and helpful for their investigations, and also of very simple use.

On 19<sup>th</sup> February, project partner RISSC coordinated the conference “Developing Training Curricula for LEAs on Counter-Terrorism Intelligence Tools”. The discussion had the aim to collect the perspective of the LEAs on the potential benefits of DANTE and the related projects presented throughout the day. The discussion also aimed at collecting additional inputs for the review and finalization of the proposed DANTE training curricula, which aim at building upon existing training offers, strategies and techniques already in place at EU and national level, and at creating synergies among the involved stakeholders.



The final DANTE workshop in Rome took place on 20<sup>th</sup> February and it was co-organised by RISSC, KUL, CTECH and ENG, which also coordinated the last conference of the DANTE Project: “Opportunities and challenges with using technology in the fight against terrorism at EU level”. The aim of the conference was to present the final results and recommendation of the DANTE project and dealing with technologies and counter-terrorism. More than fifty people attended the conference: LEAs, EU Commission, sister projects and experts on security. LEAs and sister projects who attended the event are: EUROPOL, European Forensic Initiatives Centre, CEPOL, Ayuntamiento de Madrid, DIGOS Rome, MeT Police Programme, Business Lead | Mercury Programme, Belgium Fed Police, UK CAST, Defence Science and Technology Laboratory – UK, Polizia Postale, PJ, AoC, University of criminal investigation and police studies, SURVANT, SIRIUS, ILEANET, ASGARD, ANITA and LEA, which have showed their interest about DANTE.



The last day of the event was dedicated to an internal meeting, during which the consortium had the chance to discuss the latest progresses and results achieved.



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