

reTriEval and aNalysis of heterogeneous online content for terrOrist activity Recognition



Stefanos Vrochidis, CERTH



TENSOR in H2020

- H2020-EU.3.7. - Secure societies - Protecting freedom and security of Europe and its citizens
 - SEC-FCT-06-2015 - Law Enforcement capabilities 2: Detection and analysis of terrorist-related content on the Internet
- TENSOR
 - Innovation Action
 - 16 European partners (UK, Greece, Germany, Belgium, Italy, Spain, France)
 - Coordinated by Police Service Northern Ireland (PSNI)
 - Budget ~ 5,62 M€ / EC funding ~ 5 M€
 - Starting date: September 2016
 - Duration: 3 Years
- <http://tensor-project.eu/>
- <http://twitter.com/TensorEU>

TENSOR Consortium



Police Service Northern Ireland (PSNI)

- Project Coordinator, Security Management
- Use case creation, evaluation, dissemination, exploitation (WP2, WP8)
- Ethics requirements (WP10)

Information Technologies Institute (ITI) - Centre for Research and Technology Hellas (CERTH)

- Multimodal content analytics, domain specific search and discovery, social network analysis, semantic reasoning, multimedia forensics, visual analytics (WP4, WP5, WP6)
- Web presence (WP9)

Centre of Excellence in Terrorism, Resilience, Intelligence and Organised Crime Research. Sheffield Hallam University (SHU)

- Scientific and Technical Management
- Content acquisition, processing and indexing, concept analysis, ontology creation, mis-information indicators, secure content repository with audit trail and content source traceability (WP2, WP4, WP5, WP6)



TENSOR Consortium

Cybercrime
Research Institute



Cybercrime Research Institute (CRI)

- Legal, ethical, and societal aspects, EU legislation, data management and protection (WP3)



European Organisation for Security (EOS)

- Dissemination, collaboration/clustering with other projects, Web presence (WP9)



LeonardoCompany

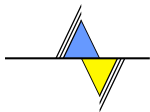
- Innovation Management
- Exploitation coordination, market analysis, system deployment and maintenance in LEAs premises, data anonymisation (WP7, WP9)



Universitat Pompeu Fabra (UPF)

- Summarisation, text generation, concept and conceptual relation extraction from text, machine translation, dialogue-empowered bots (WP4, WP6)

TENSOR Consortium



Fachhochschule für Öffentliche Verwaltung und Rechtspflege in Bayern Study Department Police (BayFHVR)

- Use case creation, evaluation, use training, dissemination, exploitation, content taxonomy & corpora, Web entry points & search terms (WP2, WP8)



RINICOM (RINI)

- System development and integration (WP7)
- Multimedia analysis, early warning techniques (WP4, WP5)



The Center for Security Studies (KEMEA)

- Use case creation, evaluation, dissemination, exploitation (WP2, WP8)

THALES

Thales Communications & Security (TCS)

- Content classification, clustering, and linking, credibility assessment and quality metrics, social network analysis, visual analytic tasks (WP5, WP6)

TENSOR Consortium



Police and Crime Commissioner for West Yorkshire (OPCC)

- Use case creation, evaluation, dissemination, exploitation (WP2, WP8)



Belgian Federal Police (BFP)

- Use case creation, evaluation, dissemination, exploitation (WP2, WP8)



Departament d'Interior – Generalitat de Catalunya (INT)

- Use case creation, evaluation, dissemination, exploitation (WP2, WP8)



Linguatec (LT)

- Automatic speech recognition, machine translation (WP4, WP6)



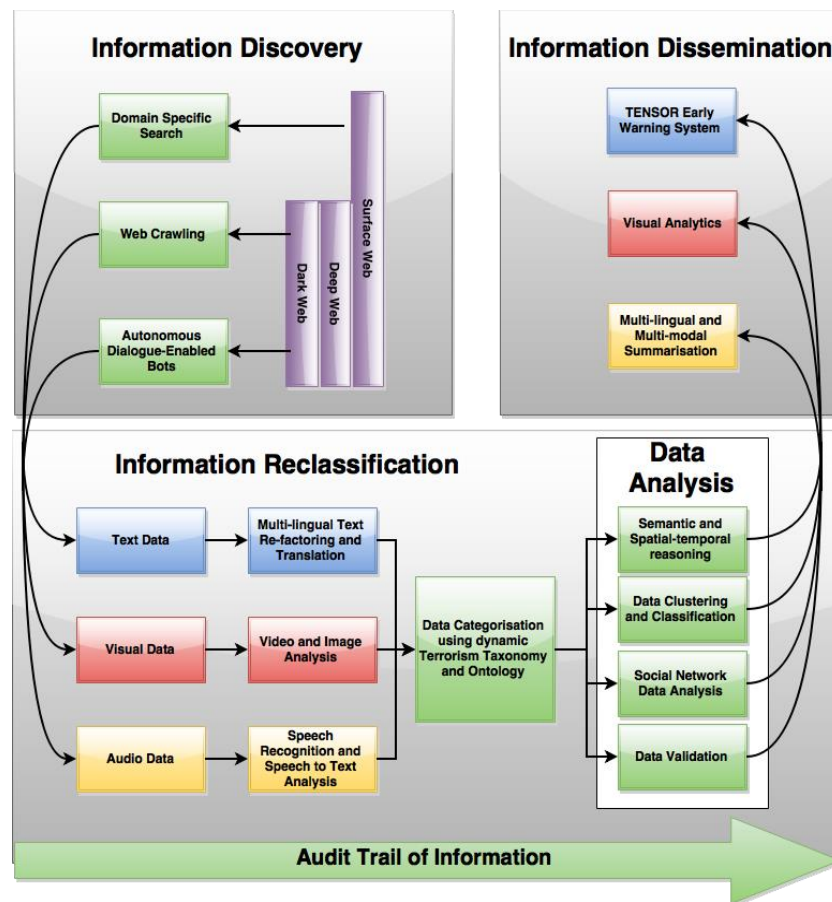
National Crime Agency

- Use case creation, evaluation, dissemination, exploitation (WP2, WP8)

TENSOR Concept

multidimensional content integration from heterogeneous online resources with a view to develop a **unified platform** to support LEAs towards:

1. efficiently and effectively categorise and analyse terrorist-generated multilingual and multimedia online content
2. detect terrorist communities
3. perform temporal analysis of terrorism trends
4. identify mis-information
5. summarise and visualise terrorist information



Thank you!

<http://tensor-project.eu/>

