

The MeVer Toolset for Tackling Media Disinformation

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AI4media



Overview

Misleading media content in social media platforms is an emerging issue: in MeVer, we build tools and services that assist with the mitigation of different aspects of the media-based disinformation challenge, including among others the detection DeepFakes and image tampering using forensics, analysis of the context of online media, near- and partial-duplicate video search, detection of depicted locations in images based on the visual content, and analysis and visualization of online interaction and information sharing networks.

Analysis of Media Online Context

Context Aggregation and Analysis: A tool that facilitates the verification of user-generated image and video with contextual clues

- Item description (title, upload time, etc.)
- Comments
- Account description (name, creation date, etc.)

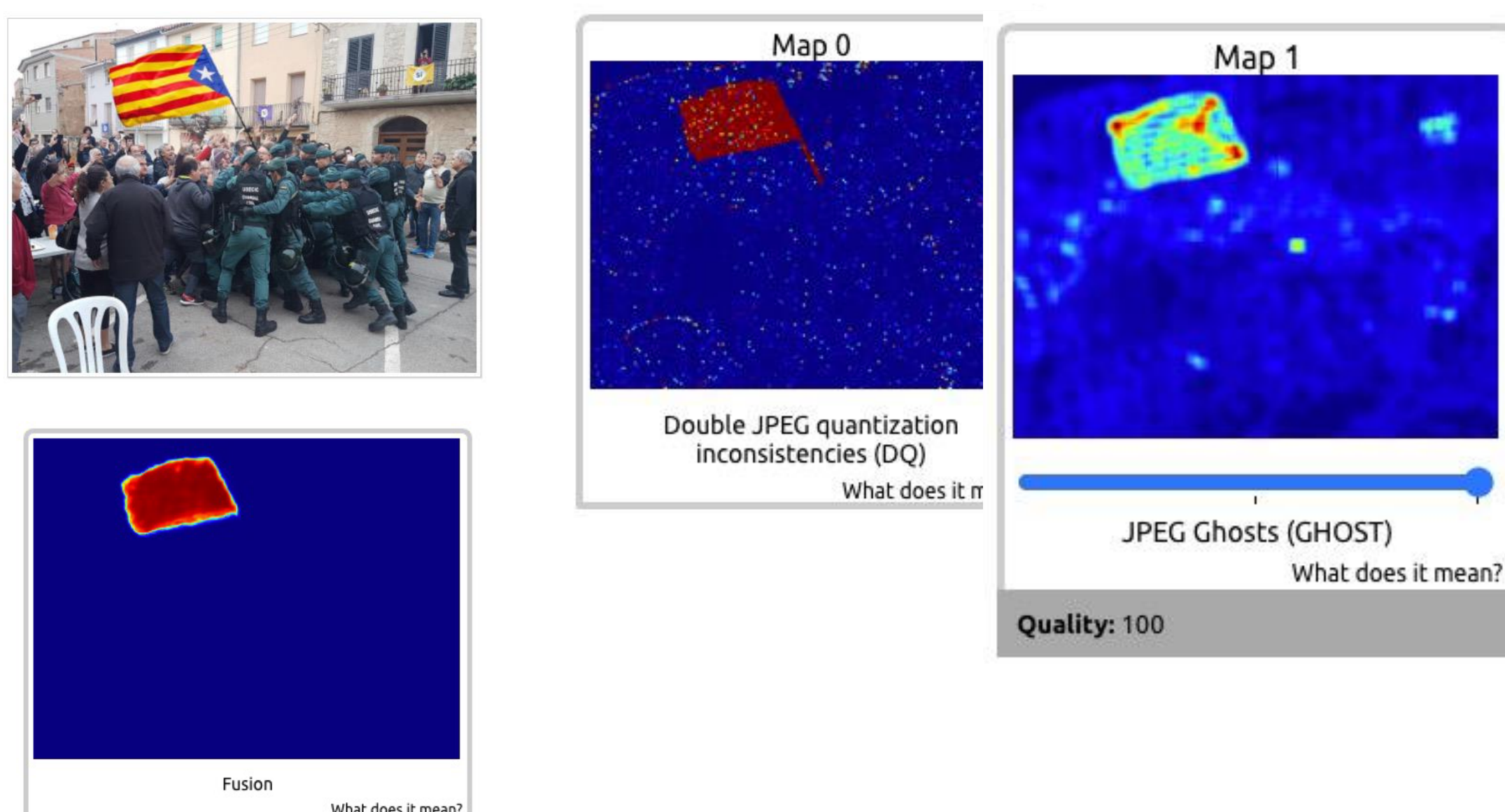
<https://caa.iti.gr>

GENERAL		COMMENTS	
VIDEO		ALL (11) LINKS (1) VERIFICATION (0)	
Name	Value	Search in comments	
Title	Muslims push a car down a subway stairs at the Metro in Brussels and burn the Christmas	Merkel's legacy	
Description	Happy New Year 2016	One of the "likers" was the pope, other was Juncker...	
Upload Time	2016-01-03, 09:43:50 UTC	In the first clip, did they kill someone in the stairs?	
View Count	6819	PEACEEEEEEE	
Duration	00:00:53	Good job Merkel.	
Mentioned Locations	Not Available	OR if you like reality, and value truth over sensationalist nonsense, here is the original video of the car, without the "allahu akbar"	
More Details		Nice edit bro, the original didn't have all the "allahu akbar" in it	
CHANNEL		More Comments...	
Name	Value		
Title	soim romania		
Created Time	2014-11-12, 05:01:59 UTC		
More Details			

Image Forensics and DeepFake Detection

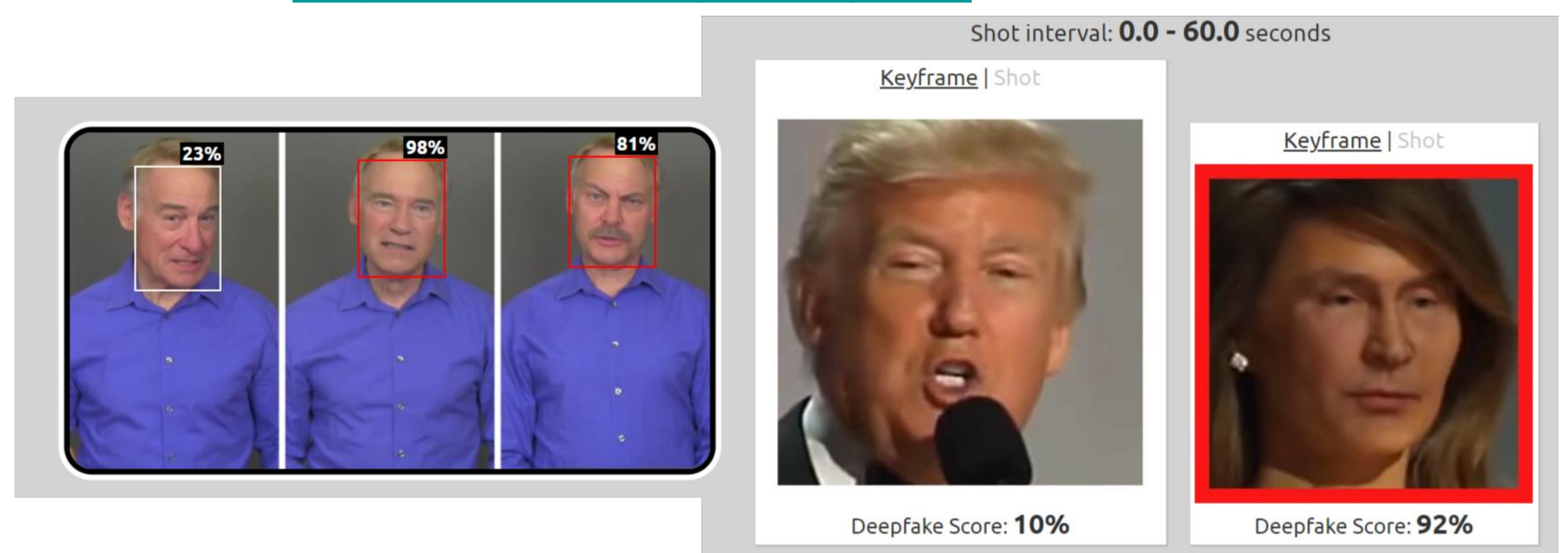
Image Verification Assistant

<https://mever.iti.gr/forensics/>



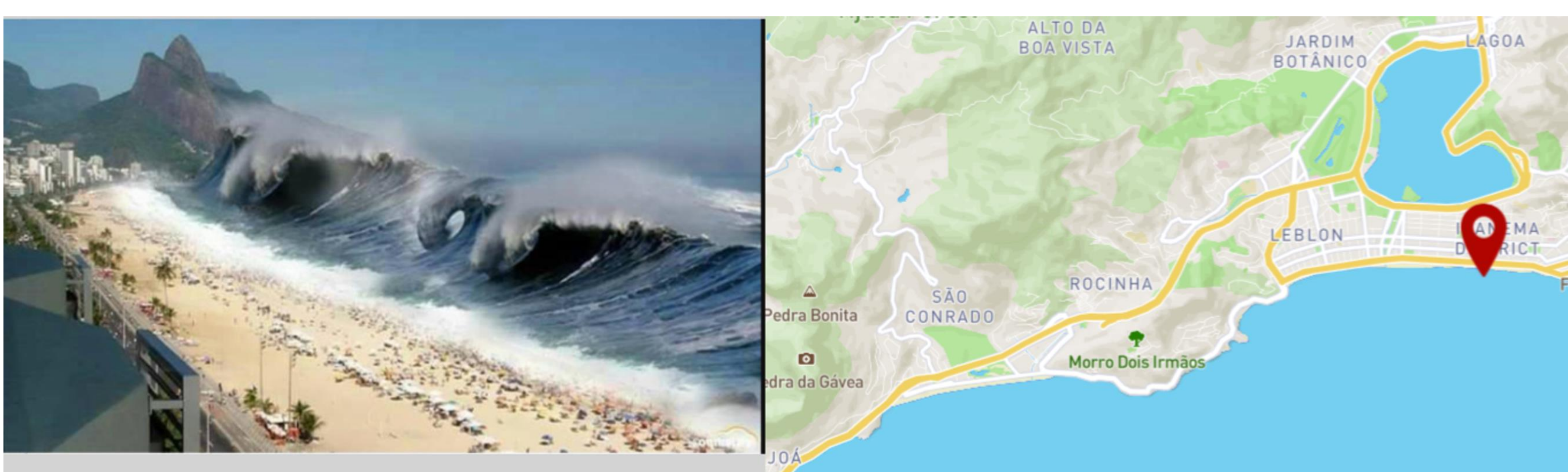
DeepFake detection

<https://mever.iti.gr/deepfake>



Visual Location Estimation and Near Duplicate Search

A tool that aims to detect the location depicted in an image based on the visual content.

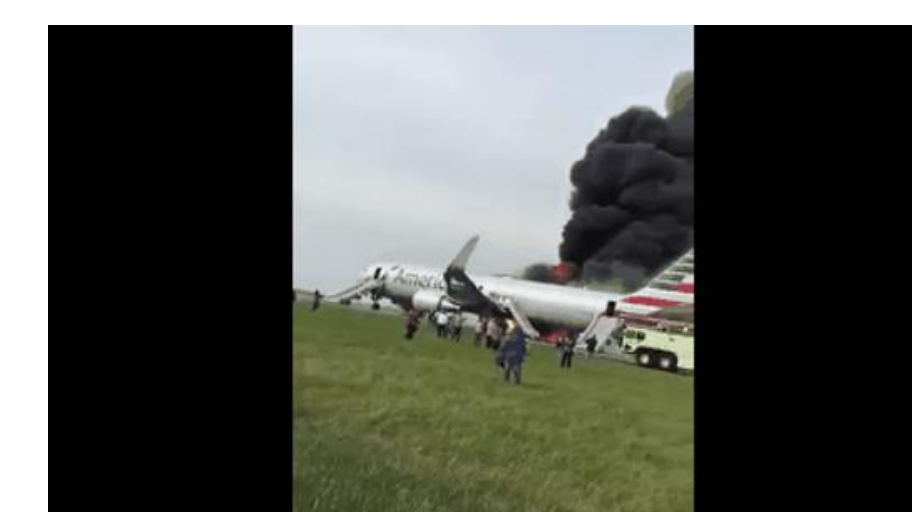


<https://mever.iti.gr/location>

A tool that retrieves relevant image and video based on visual and audio similarity

Query video

Duplicate Scene



Complementary Scene

Incident Scene



Network Analysis and Visualization

A tool that helps users delve into social media conversations, gain insights about how (dis)information propagates, and provide intuition about communities formed via interactions.

Supports:

- Twitter graphs
- Facebook graphs (from CrowdTangle)

<https://networkx.iti.gr/>

