

















"IL FUTURO PARTE DA QUI" – REGIONE CALABRIA

Intelligenza artificiale al servizio delle nuove emergenze globali.



"AI-based CONTENT DISCRIMINATOR us MISINFORMATION"









EXPO DUBAI 2020





























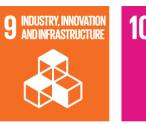
8 DECENT WORK AND ECONOMIC GROWTH

























































PEACE, JUSTICE AND STRONG INSTITUTIONS



Conflict, insecurity, weak institutions and limited access to justice remain a great threat to sustainable development.

Among the objectives of the sixteenth SGDs:

• (16.10) Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements.

The information world changed when WEB 2.0 was introduced. Everyone can produce information.



This is still good news as long as it is actual information.



But it is risky if it is:

- Misleading;
- Inaccurate;
- False.























PROBLEM





Unintentional mistakes such as inaccurate photo captions, dates, statistics, translations, or when satire is taken seriously. Spreading false information that you think is true.

DISINFORMATION

rumors.

Fabricated or deliberately manipulated audio/visual content. Intentionally created conspiracy theories or

Deliberate abuse of private information with the intent to harm or intimidate. For example, sharing someone's personal emails online-while this is not false information, it is distributed with malign

intent.

MALINFORMATION





MISINFORMATION:

False information that is spread, regardless of intent of mislead. They are not attributed to any particular source and so are unreilable and often unverified.

DISINFORMATION:

Deliberately misleading or biased information; manipulated narrative or facts; propaganda.



MALINFORMATION:

Deliberate publication of private information for personal or corporate rather than public interest, such as revenge porn. Deliberate change of context, date or time of genuine content.





















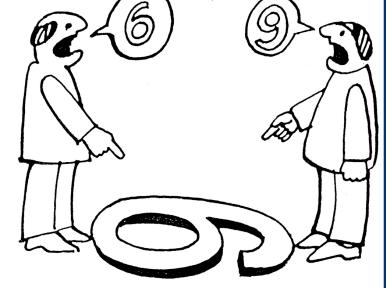


PROBLEM

- Wrong information about COVID pandemic crisis cause:
 - Deaths;
 - Chaos;
 - Panic;
 - Mistrust of the institutions.

- Manipulated information to promote their own interests
 - cause:
 - Conflicts;
 - Bad decisions;
 - Radicalization.



























SOLUTION: USE CASE

MISINFORMATION DETECTED







- It is not a trusted source;
- Its semantic meaning is not in agreement with similar articles published by trusted sources;



Low level of reliability

RELIABLE INFORMATION







High level of reliability



















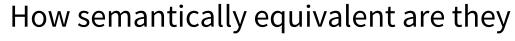




SOLUTION

Informative Content to verify











Yellow pages of Trusted sources

CONTENT DISCRIMINATOR:

- Is not lexical equivalence based;
- Is not keyword-based;



% of RELIABILITY















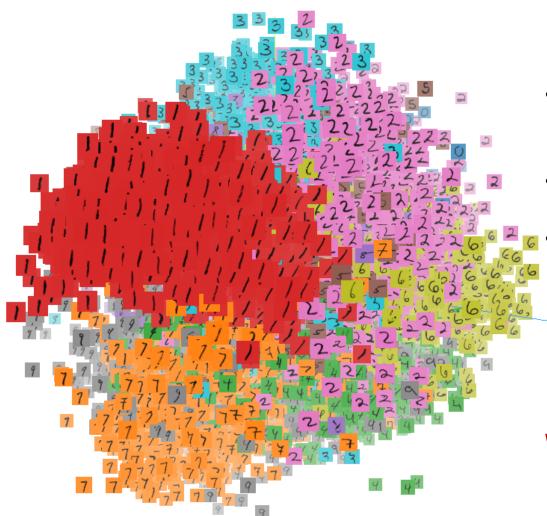








But what does "semantically equivalent" mean?



- Each numbered square represents a single informative content in the space;
- It works like a system of spatial coordinates;
 - This representation leverages on the following properties:
 - Two near points represent two semantically similar content;
 - Two distant points represent two content which have different meanings.

We can compute the distance to a verified news!

Artificial Intelligence, in particular NLP can do it!

AI-based Content Discriminator vs MISINFORMATION



made with alcohol can kill coronavirus, surely if you stay

19:34 - 04 mar 20 - Twitter for iPhon

permanently drunk until the crisis is

over, you'll have enough alcohol in

your bloodstream to protect yourself.

Until I'm told otherwise by an expert, that's what I'm doing.







AI, DL and NLP

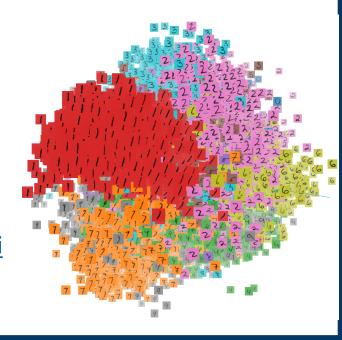




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THANKS FOR THE ATTENTION.