Borse di studio GARR
Orio Carlini

Piattaforma di Analisi e Diffusione delle Informazioni per Combattere l'Infodemia

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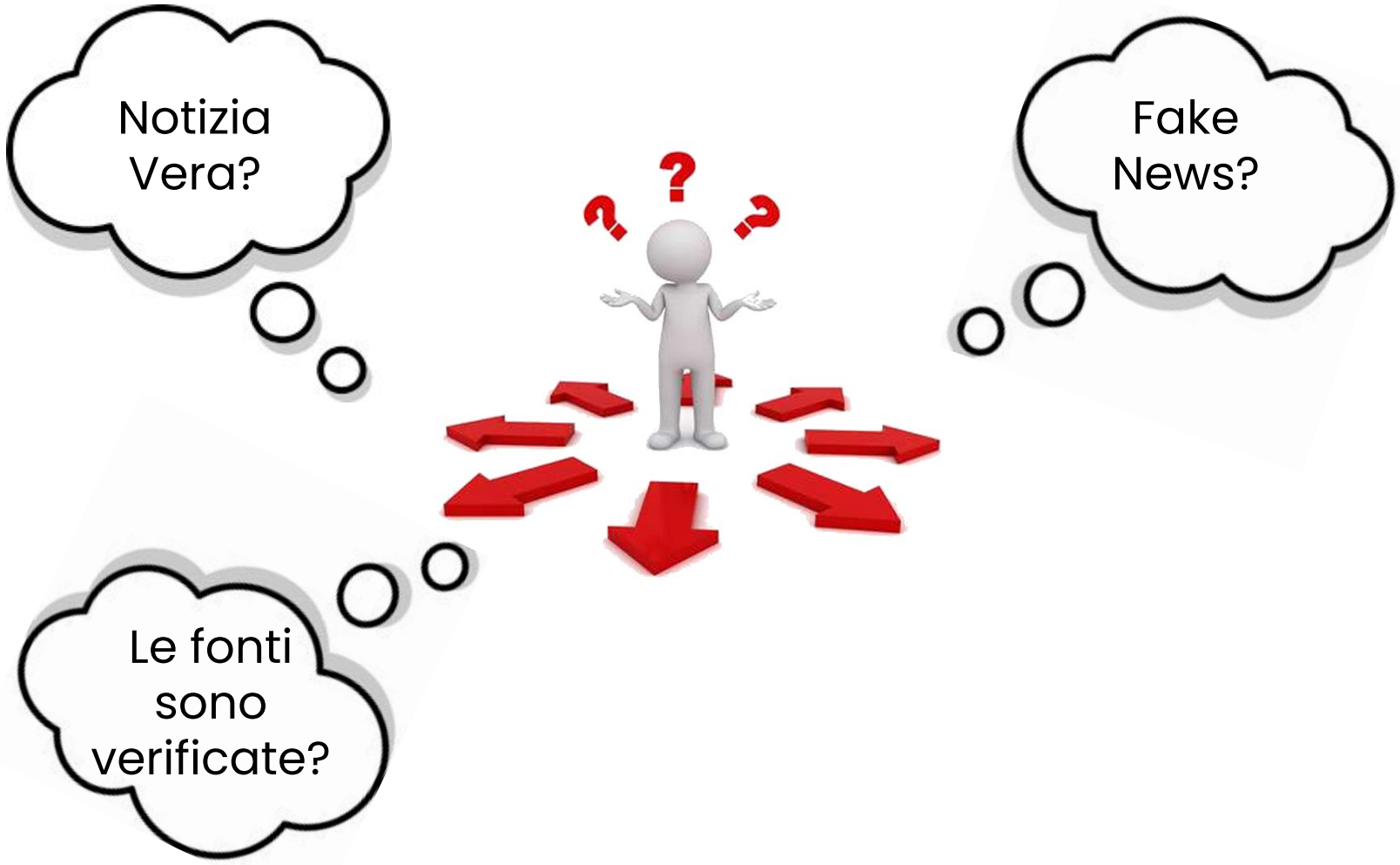
Istituto Ospitante: Dipartimento di Informatica, Università di Pisa

Consortium GARR
THE ITALIAN EDUCATION & RESEARCH NETWORK

Riepilogo

Contesto: Infodemia

Problema: Orientarsi tra le informazioni



Problema: Organi di informazione

Controllo correttezza informazioni

Censura

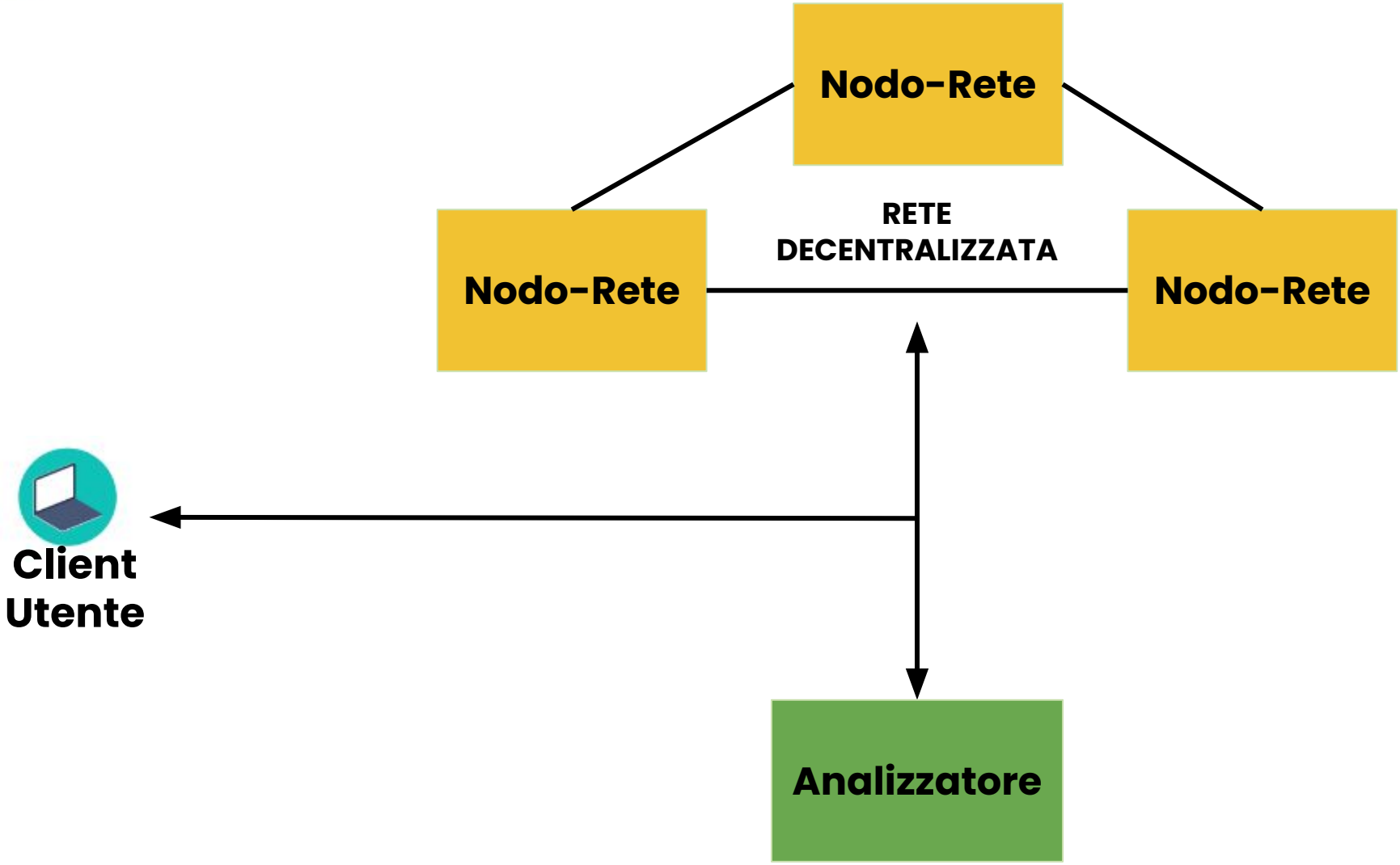
Libertà di espressione

Fake News

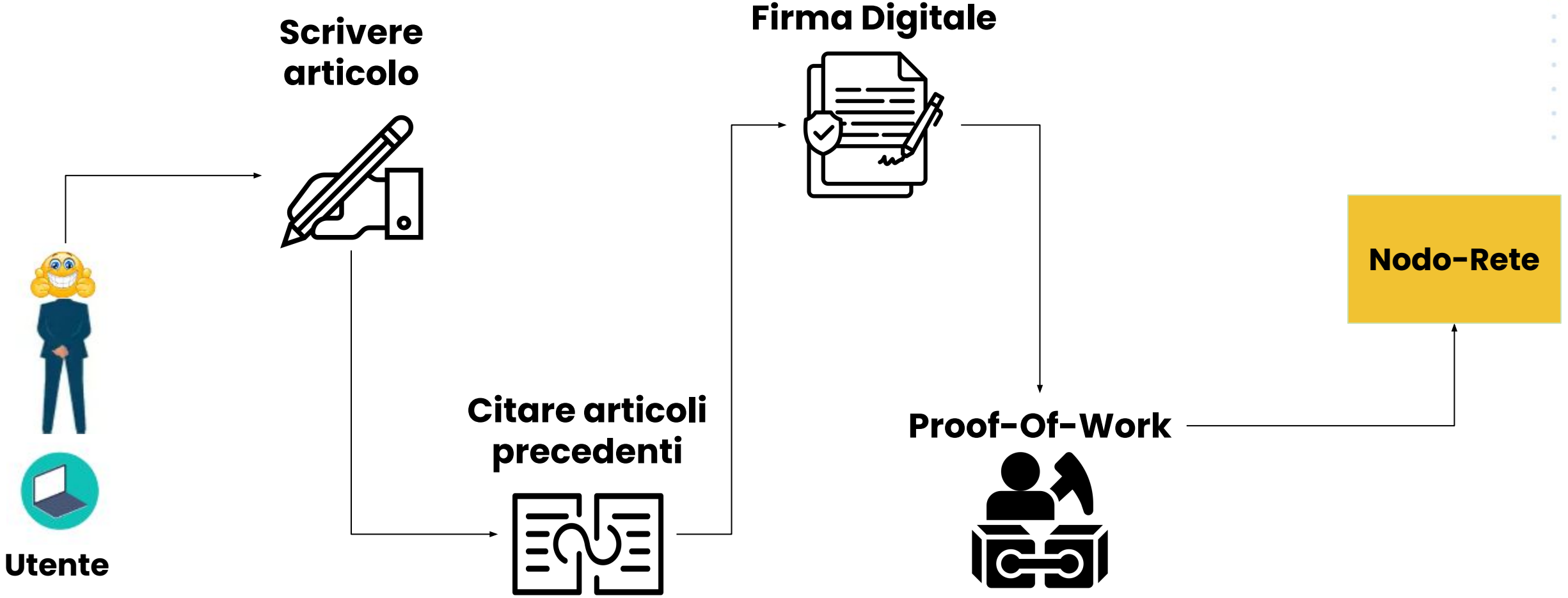
Obiettivo: sviluppo di REASON KERNEL

Risultati Raggiunti

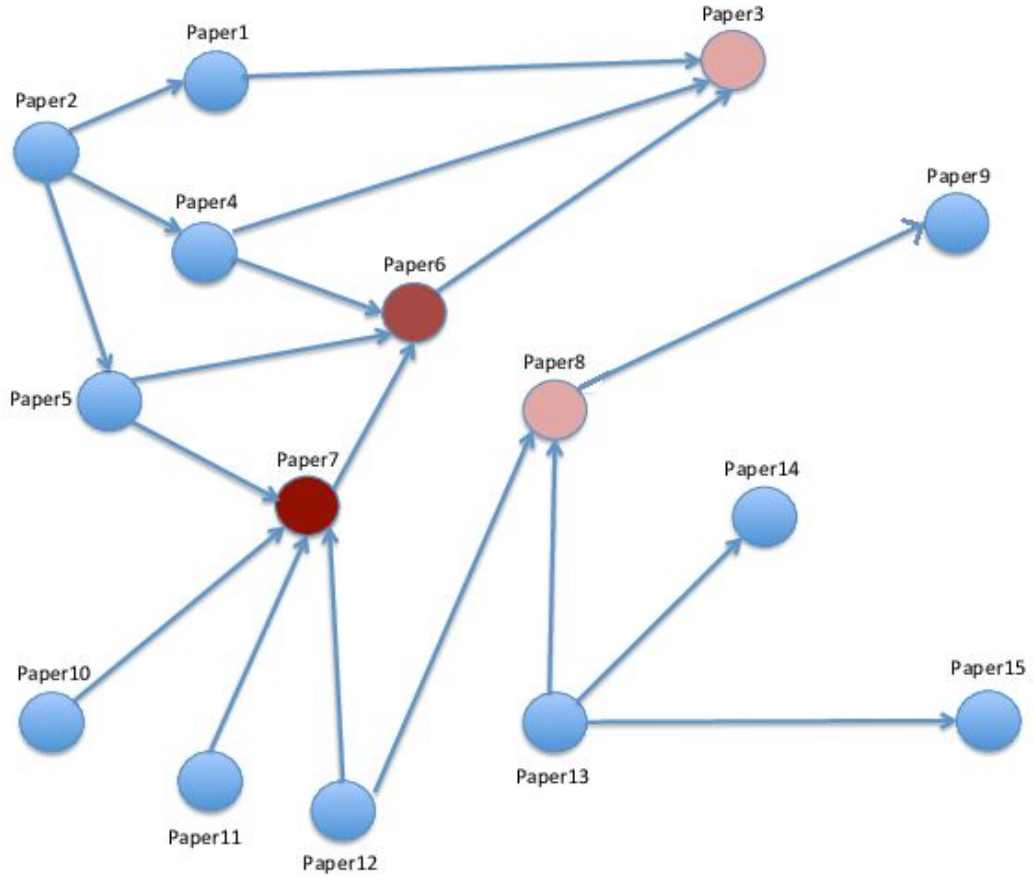
REASON KERNEL: Architettura di rete



REASON KERNEL: Creazione articolo



REASON KERNEL: Tangle



REASON KERNEL: Stima autorevolezza autori

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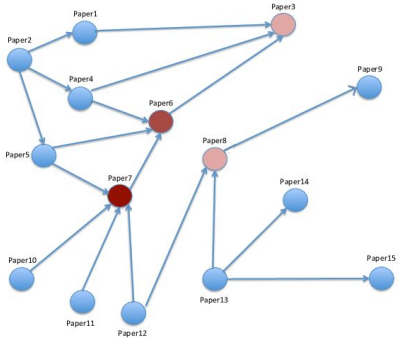
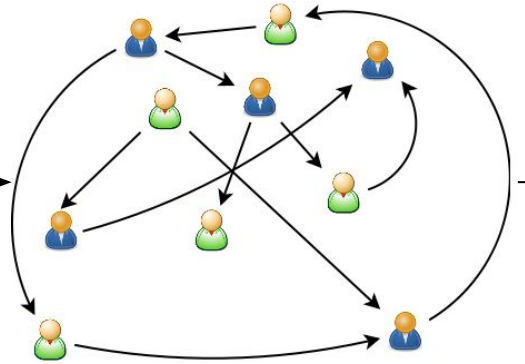
Analizzatore

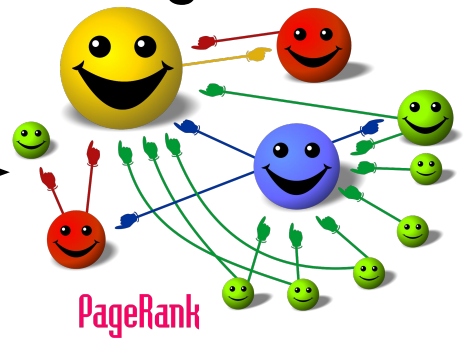
Grafo articoli



Genera grafo di autori

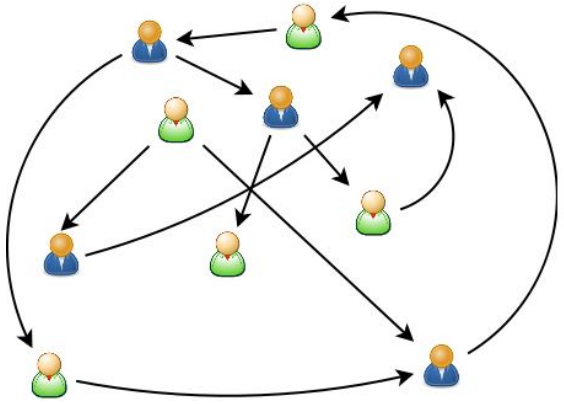


Algoritmo Page Rank



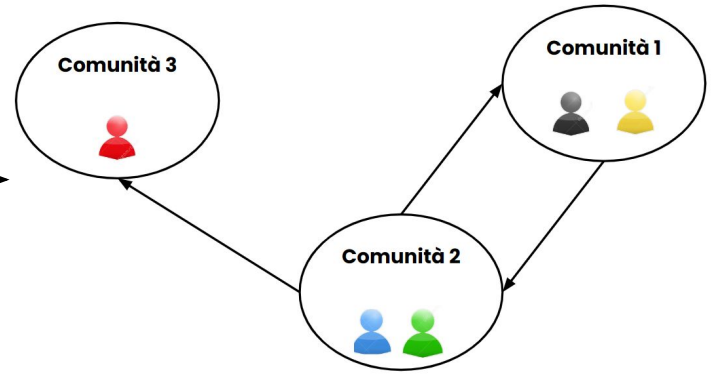
Stima autorevolezza

REASON KERNEL: Stima veridicità articoli



Grafo autori

Analizzatore



Grafo Comunità

REASON KERNEL: Stima veridicità articoli

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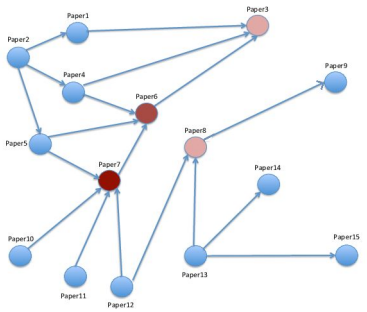
Grafo articoli

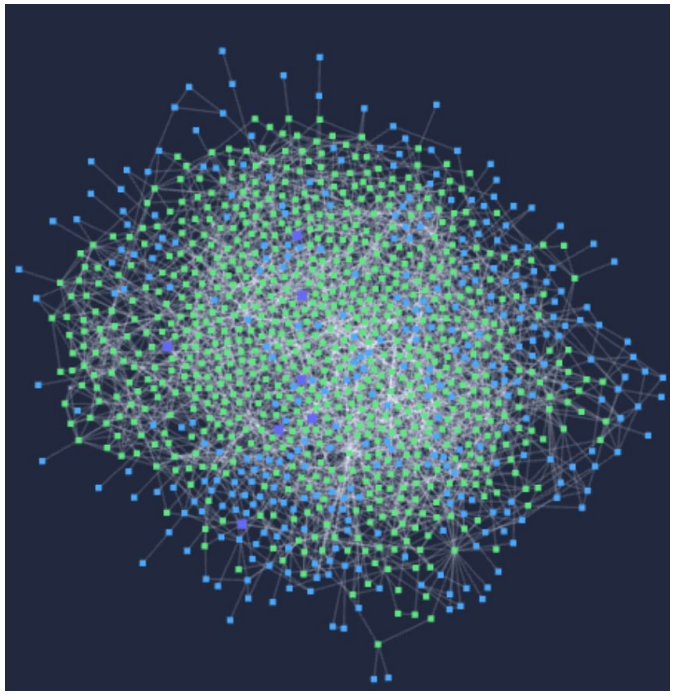


Analizzatore

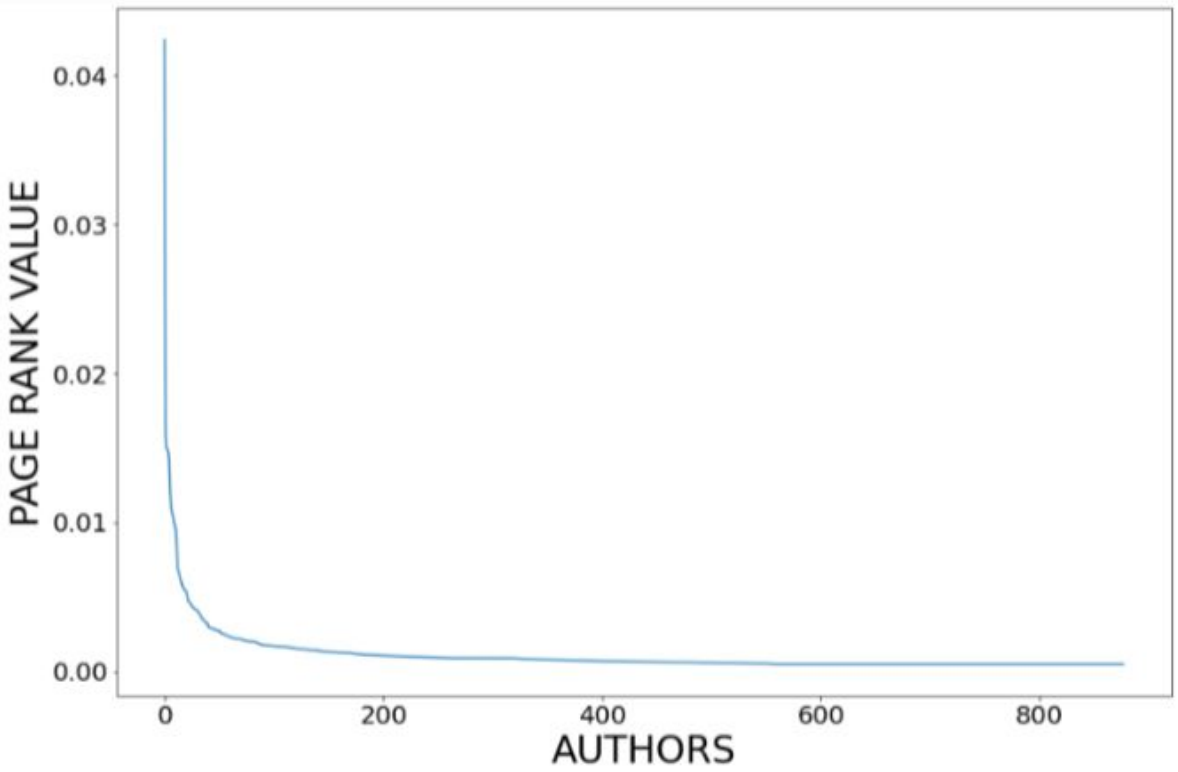
Numero citazioni
Autorevolezza autore
Autorevolezza media
Distanza ideologica

Stima veridicità

REASON KERNEL: Test



1066 articoli, 878 autori



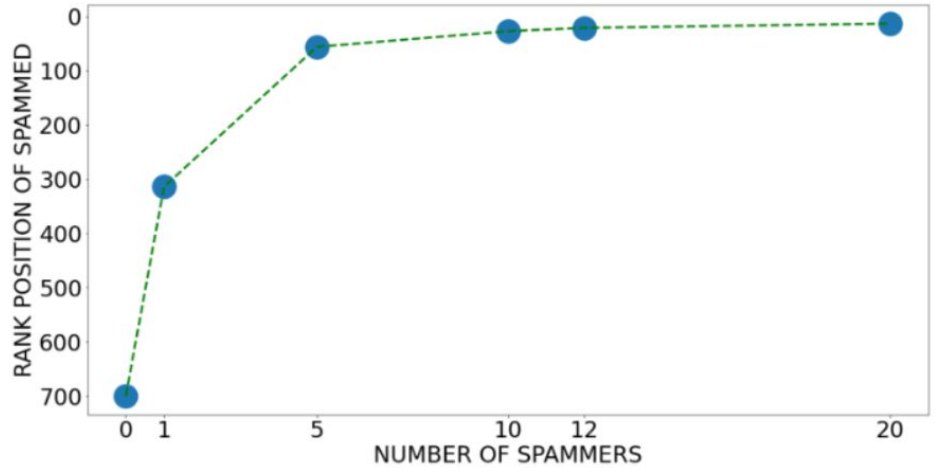
Stima autorevolezza autori

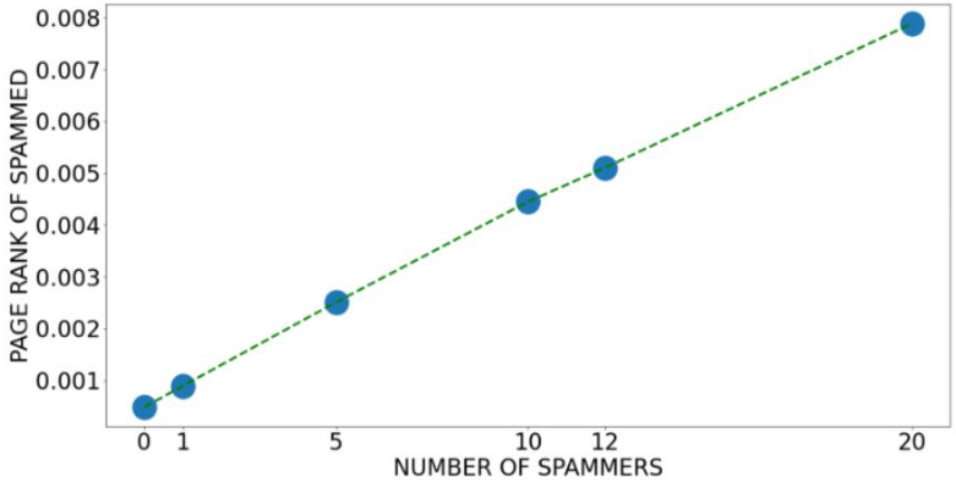
REASON KERNEL: Test (Spam Attack)

1°
58 citazioni

700°
0 citazioni

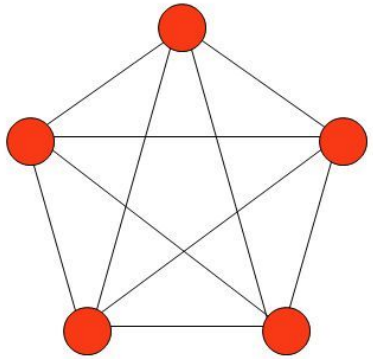
Spammers
60 citazioni disponibili





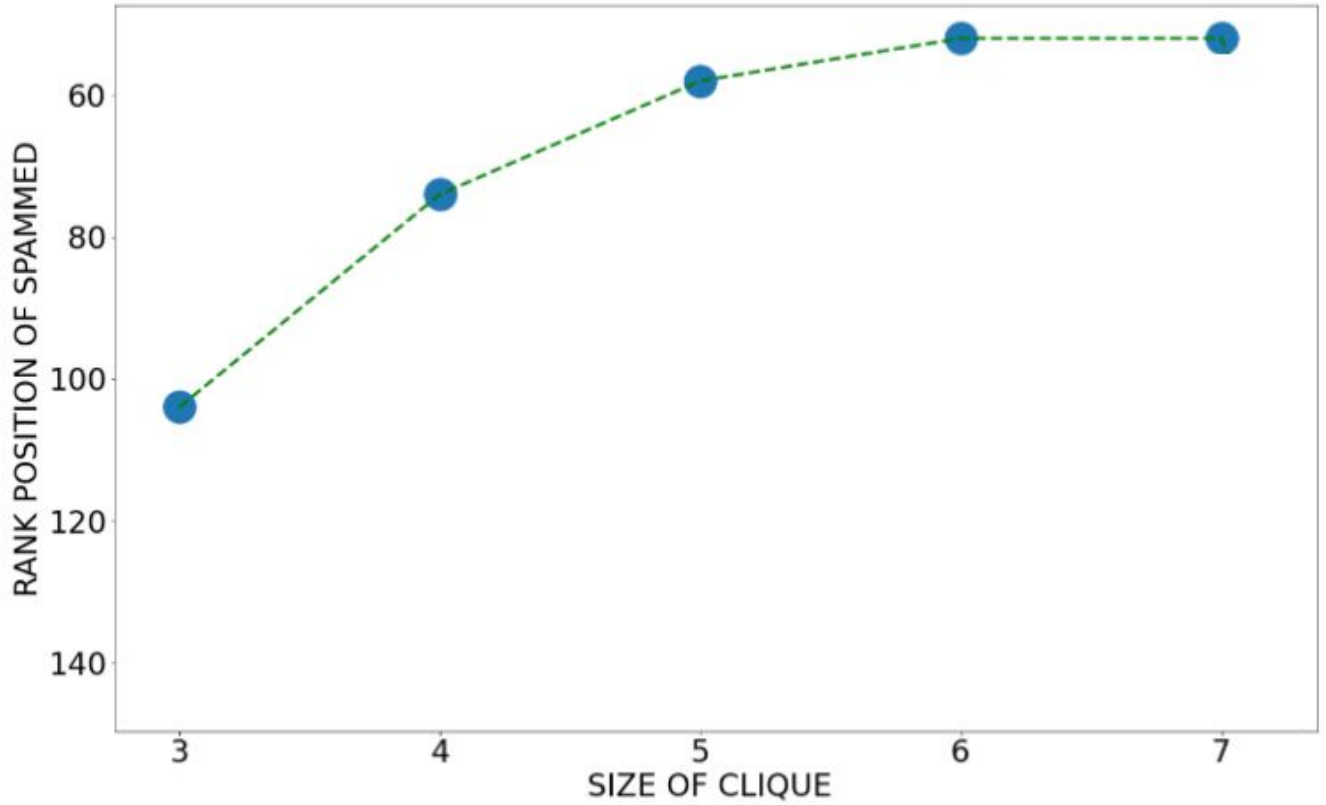
13°

REASON KERNEL: Test (Spam Attack)



Cricca di Spammers

60 citazioni disponibili

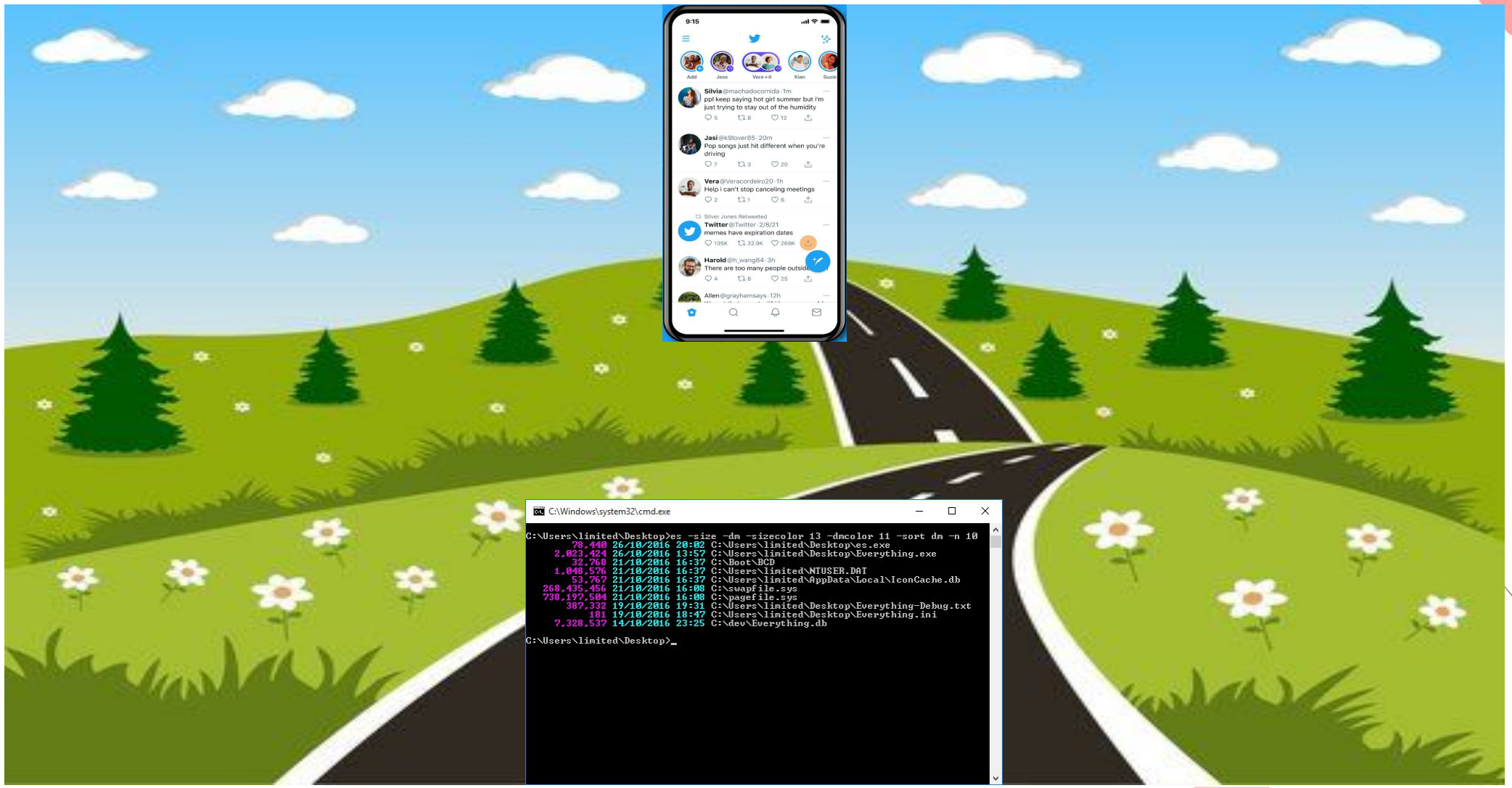


52°

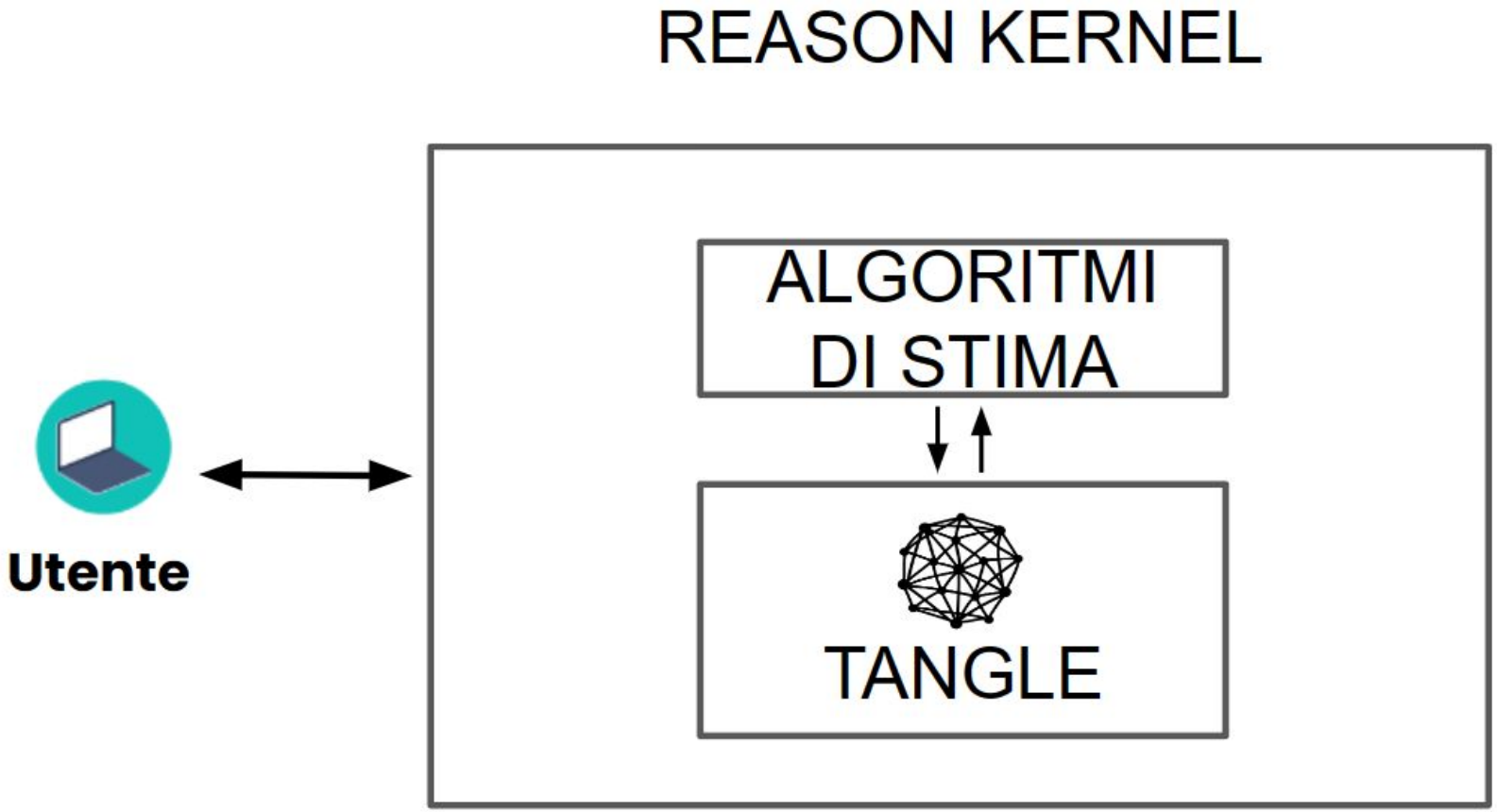
REASON KERNEL: Stima articoli

ID Articolo	Stima	PR Autore	Citazioni Ricevute	PR Medio Citanti	Distanza Ideologica
0	0.319541	0.042414	58	0.001972	2.357143
1	0.285509	0.014411	24	0.002533	3.500000
2	0.249268	0.010631	11	0.002163	3.500000
3	0.246634	0.015953	19	0.002845	3.000000
4	0.234053	0.005642	8	0.002326	3.500000

Proroga


9:15
Add
Jess
Vera +4
Kian
Suzie
Silvia @machadocomida · 1m
ppl keep saying hot girl summer but i'm just trying to stay out of the humidity
Jasi @k9lover85 · 20m
Pop songs just hit different when you're driving
Vera @Veracordeiro20 · 1h
Help I can't stop canceling meetings
Silver Jones Retweeted
Twitter @Twitter · 2/8/21
memes have expiration dates
Harold @h_wang84 · 3h
There are too many people outside
Allen @grayhamsays · 12h
C:\Windows\system32\cmd.exe
C:\Users\limited\Desktop>es -size -dm -sizecolor 13 -dmcolor 11 -sort dm -n 10
78,440 26/10/2016 20:02 C:\Users\limited\Desktop\es.exe
2,023,424 26/10/2016 13:57 C:\Users\limited\Desktop\Everything.exe
32,768 21/10/2016 16:37 C:\Boot\BCD
1,048,576 21/10/2016 16:37 C:\Users\limited\NTUSER.DAT
53,767 21/10/2016 16:37 C:\Users\limited\AppData\Local\IconCache.db
268,435,456 21/10/2016 16:08 C:\swapfile.sys
738,197,504 21/10/2016 16:08 C:\pagefile.sys
387,332 19/10/2016 19:31 C:\Users\limited\Desktop\Everything-Debug.txt
181 19/10/2016 18:47 C:\Users\limited\Desktop\Everything.ini
7,328,537 14/10/2016 23:25 C:\dev\Everything.db
C:\Users\limited\Desktop>

Proroga



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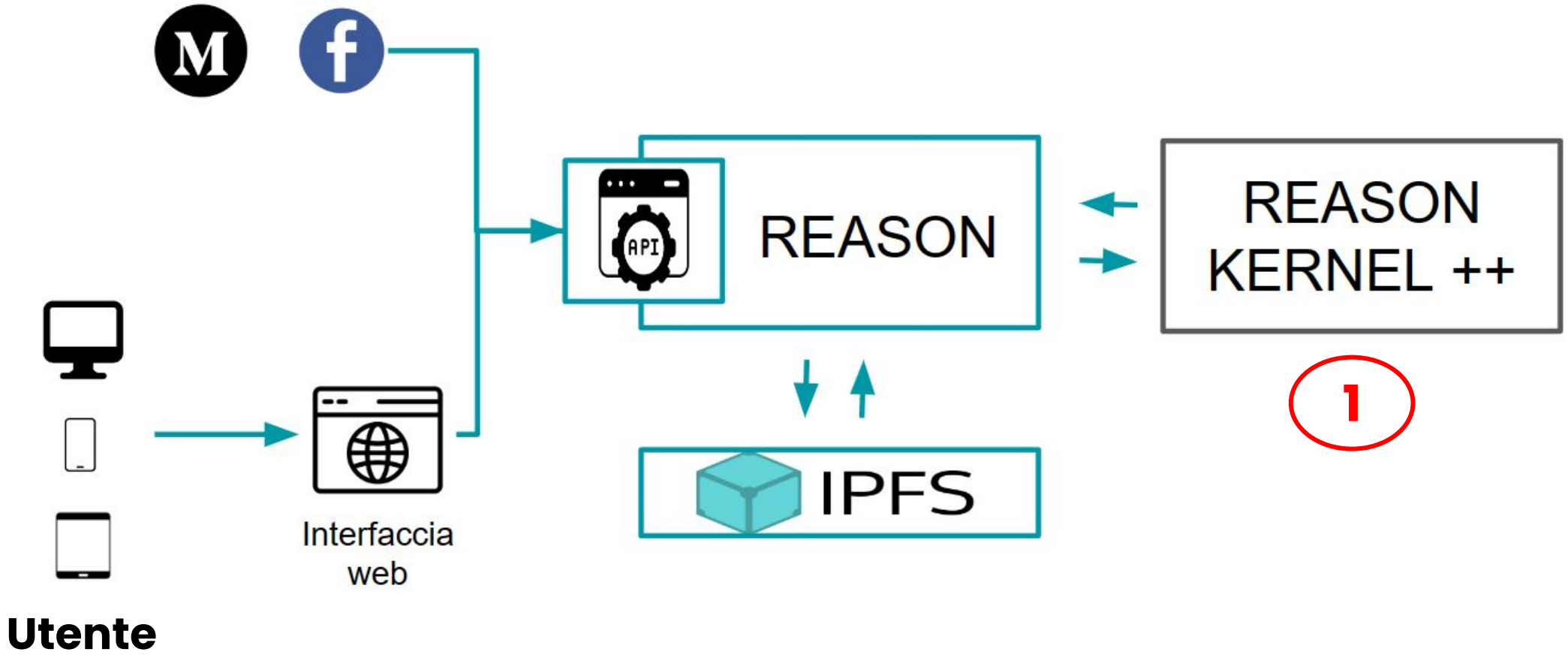

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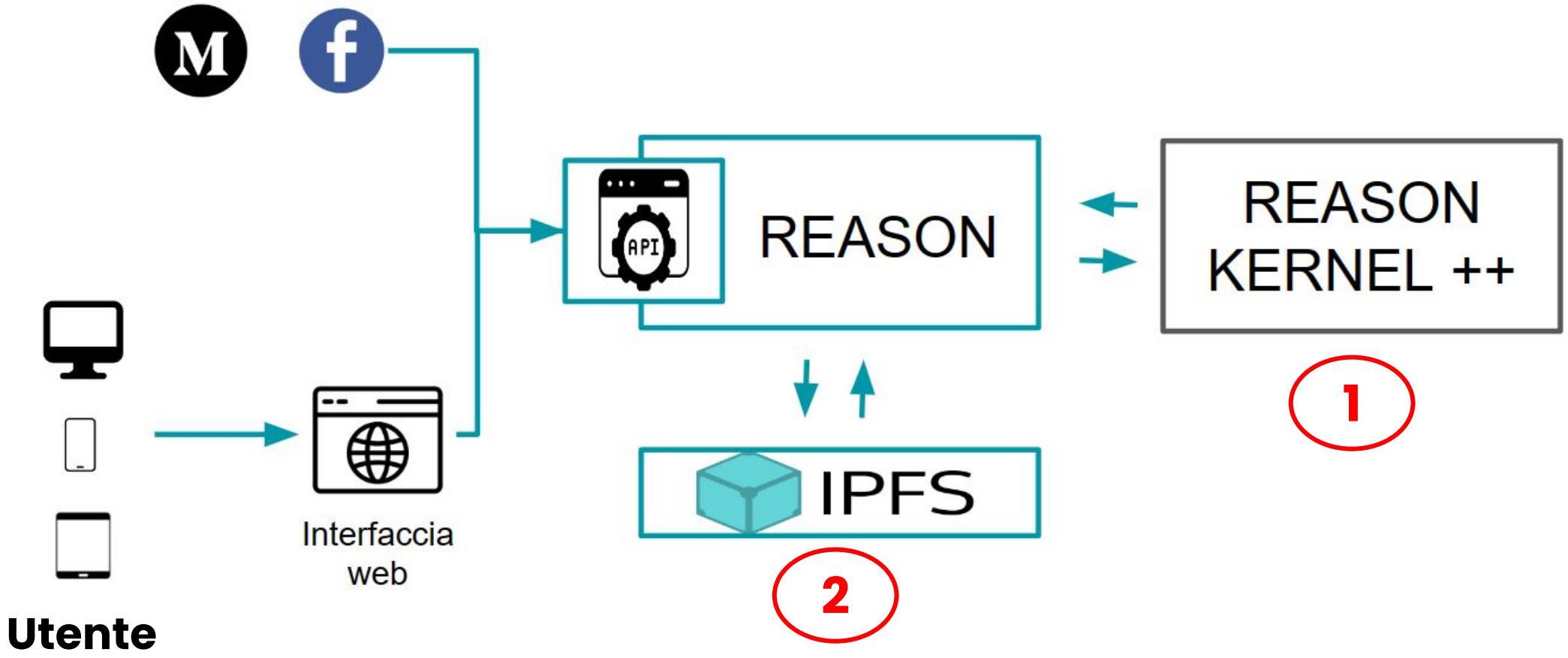

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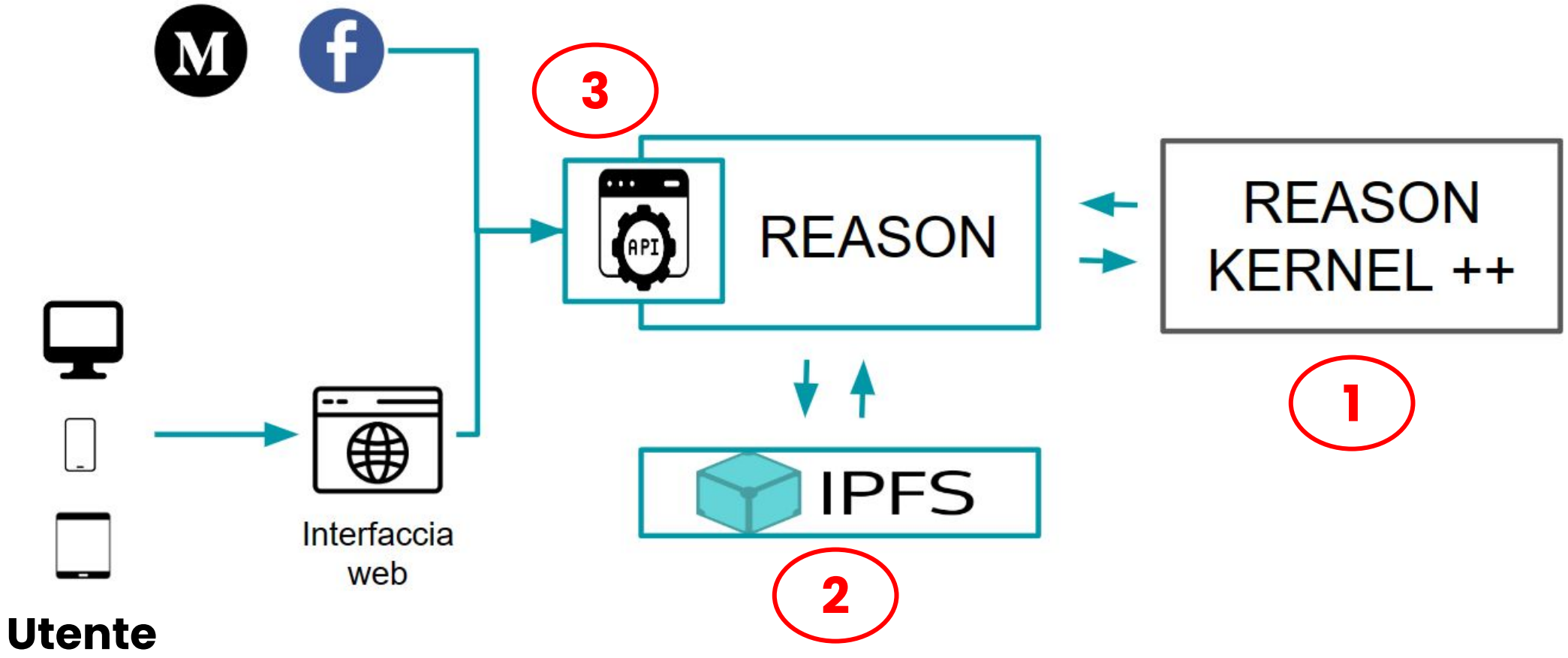
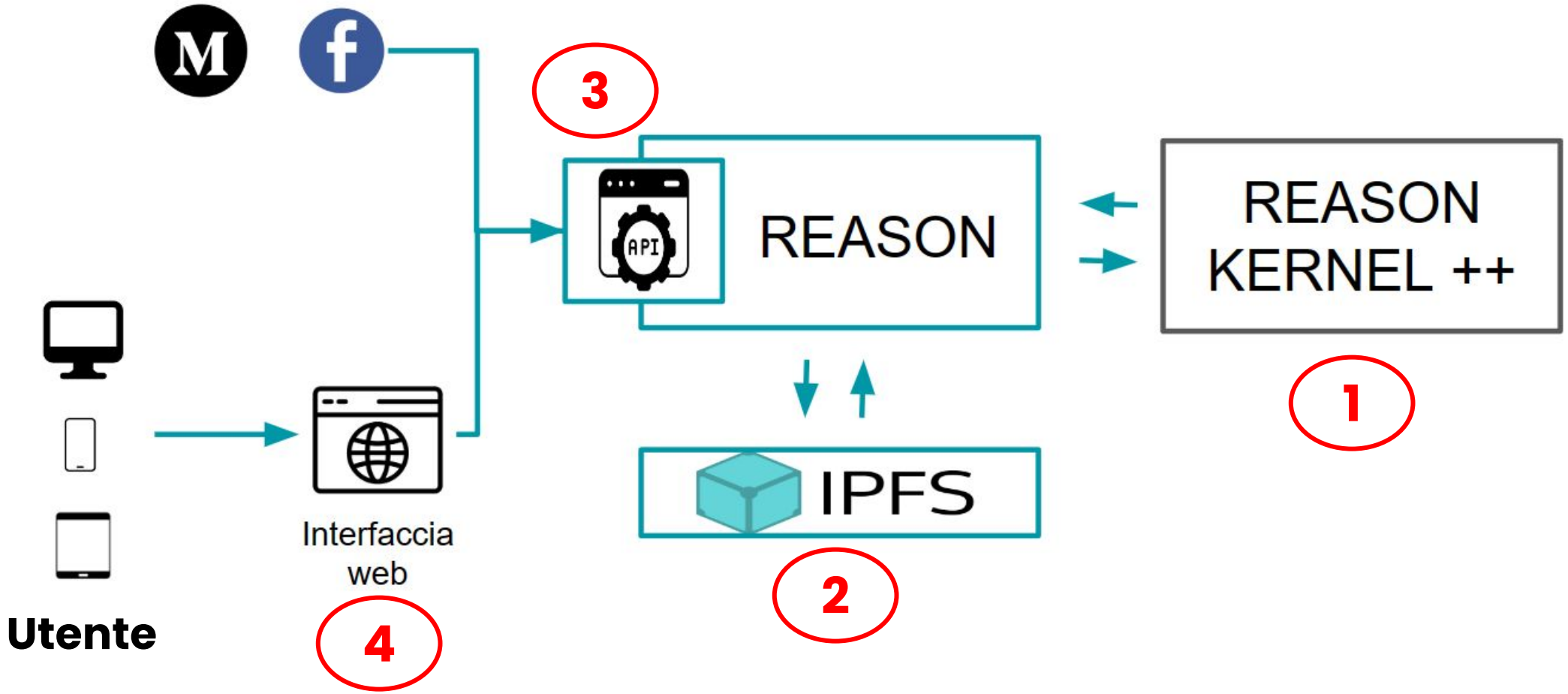


Proroga



Proroga

- **Test incrementali**
- **REASON su rete distribuita geograficamente**
- **Test su dataset di articoli non scientifici**

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Grazie

Matteo D'Onofrio – Università di Pisa, Dipartimento di Informatica

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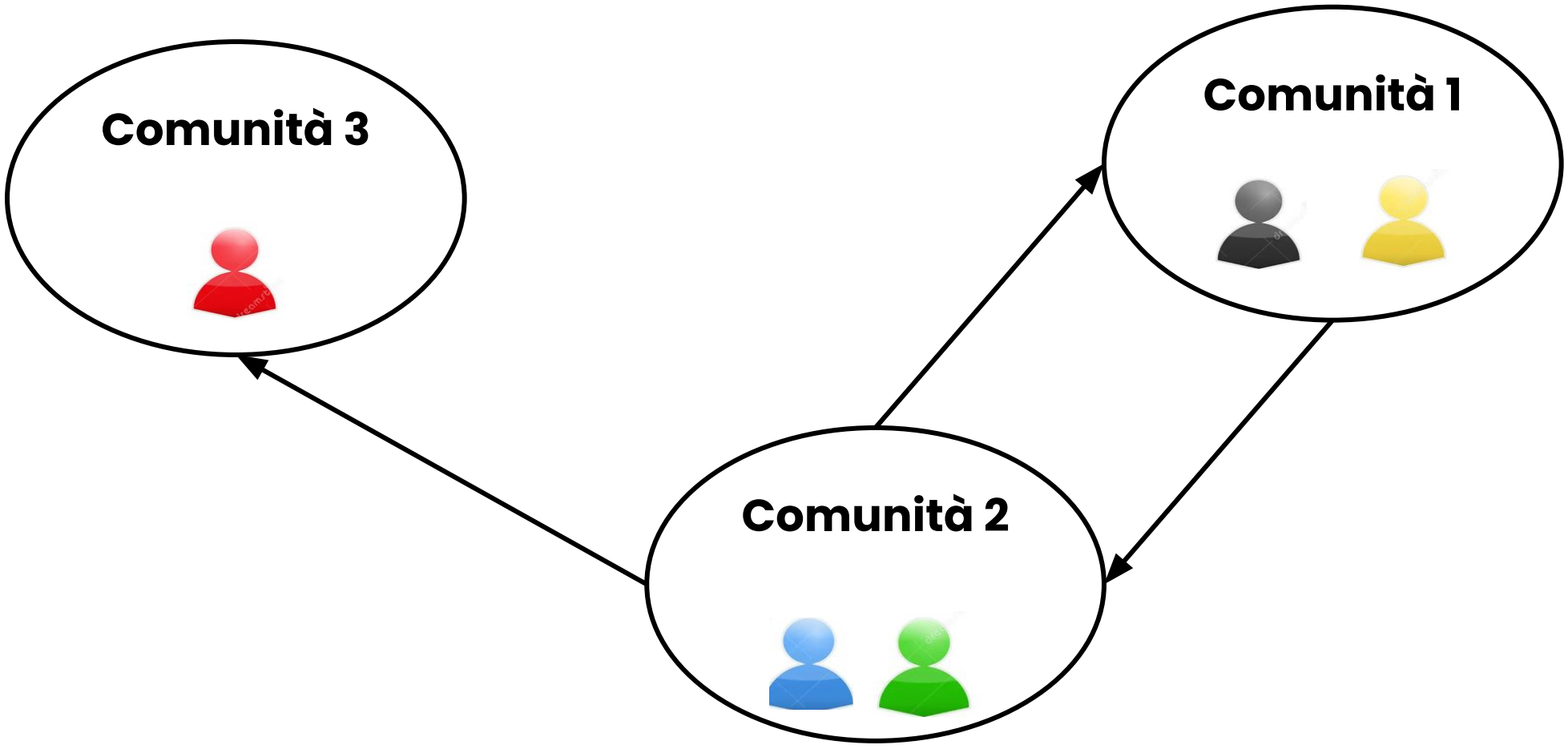
IPFS:
InterPlanetary File System

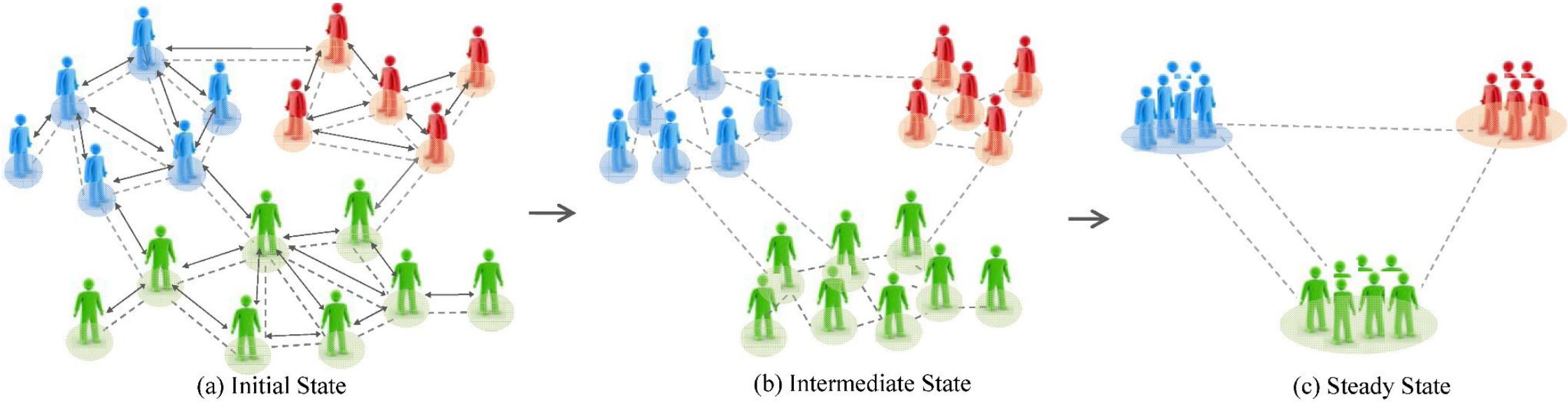
Proprietà:

- **Decentralizzato**
- **Distribuito**
- **Contenuti indicizzati**
- **Open-source**

Problema: Organi di informazione

TIPO	Centralizzati	Decentralizzati
PRO	Controllo correttezza informazioni	Libertà di pubblicazione
CONTRO	Censura	Fake News


Comunità 3
Comunità 1
Comunità 2


(a) Initial State
(b) Intermediate State
(c) Steady State

REASON KERNEL: Proprietà

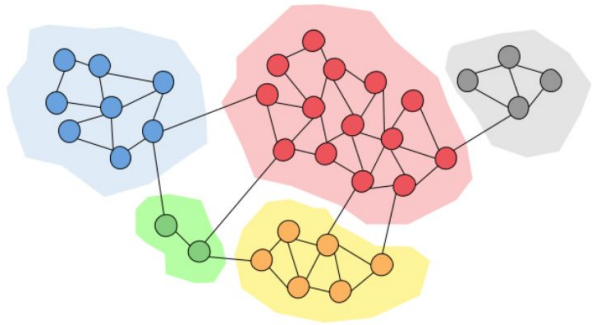
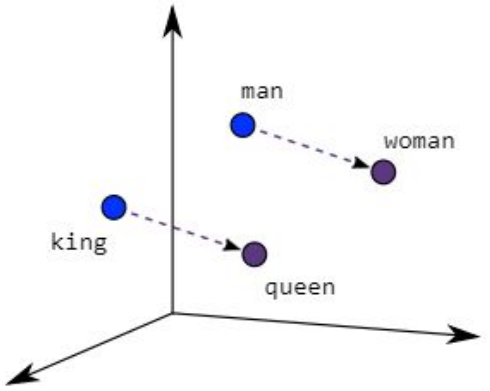
- **Citazioni solo positive (conseguenza del "Negativity Bias")**

- **Piattaforma decentralizzata, nessuna informazione viene rimossa (quindi le Fake News non vengono rimosse)**
  - **Se utenti riconoscono una fake news, non la citano.**
  - **Un articolo non citato, viene "abbandonato".**

REASON KERNEL: Tecnologie usate

docker

python™



Google PageRank