

"Le fake news e il ruolo degli esperti nell'agorà digitale"



<http://www.di.unito.it/~ruffo>

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[@giaruffo](https://twitter.com/giaruffo)

*Giancarlo Ruffo - Università degli Studi di Torino*



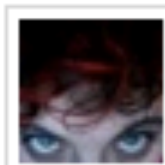
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# Divided we Stand

Metodi e strumenti informatici per  
comprendere e studiare la società digitale

28 Nov. 2019, Circolo dei Lettori, Torino

[http://www.di.unito.it/~ruffo/talks/2019\\_Nov\\_CEST\\_Torino.pdf](http://www.di.unito.it/~ruffo/talks/2019_Nov_CEST_Torino.pdf)



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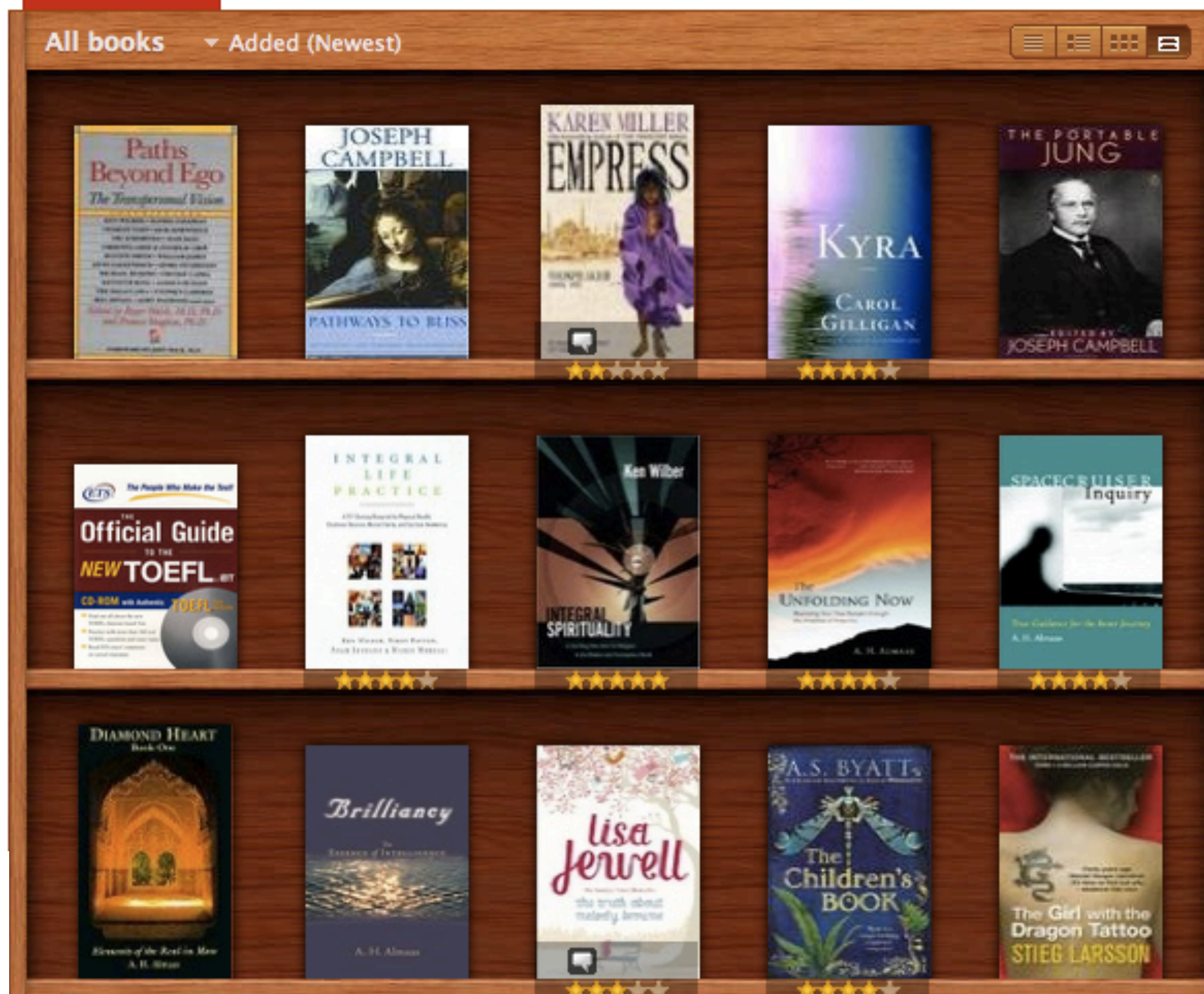
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**Lajello**

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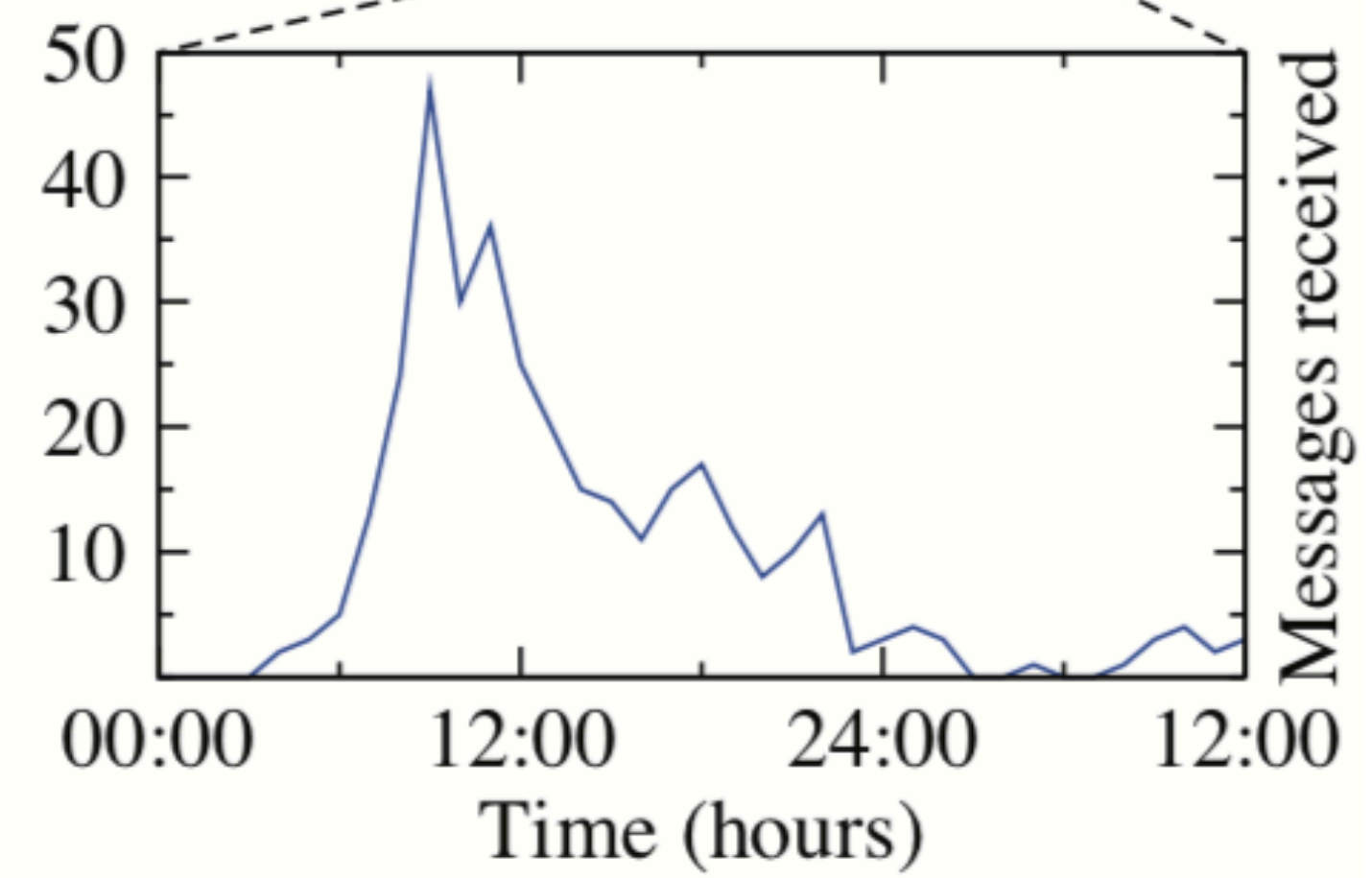
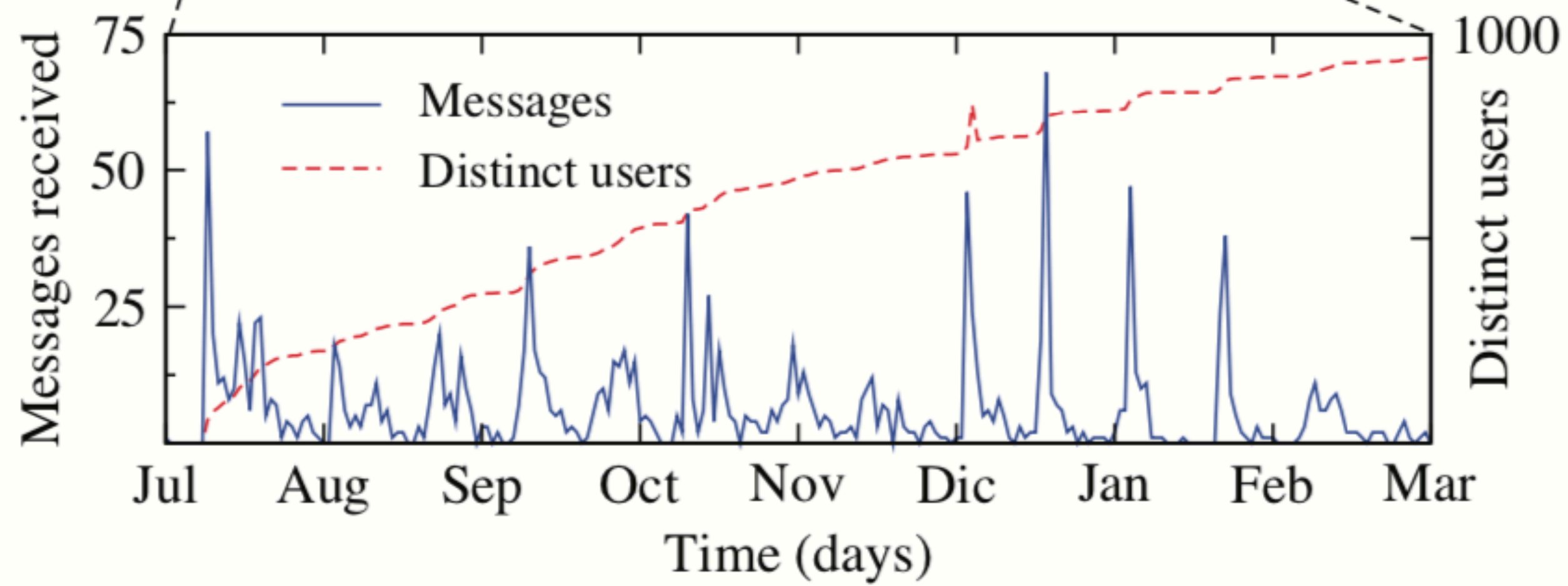
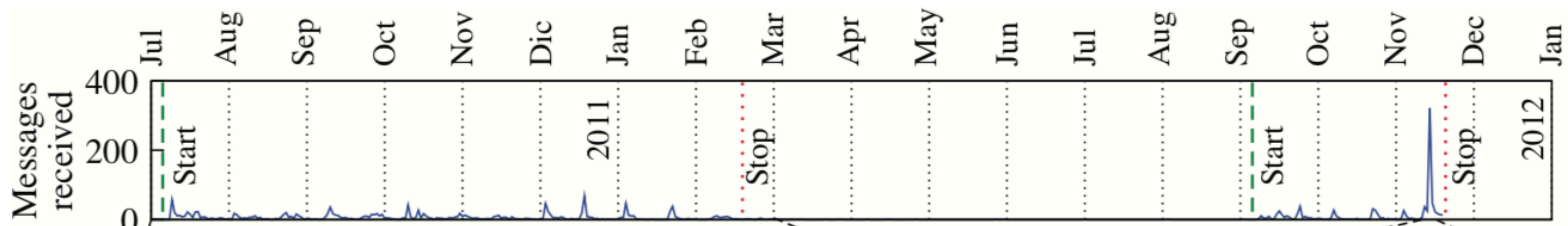
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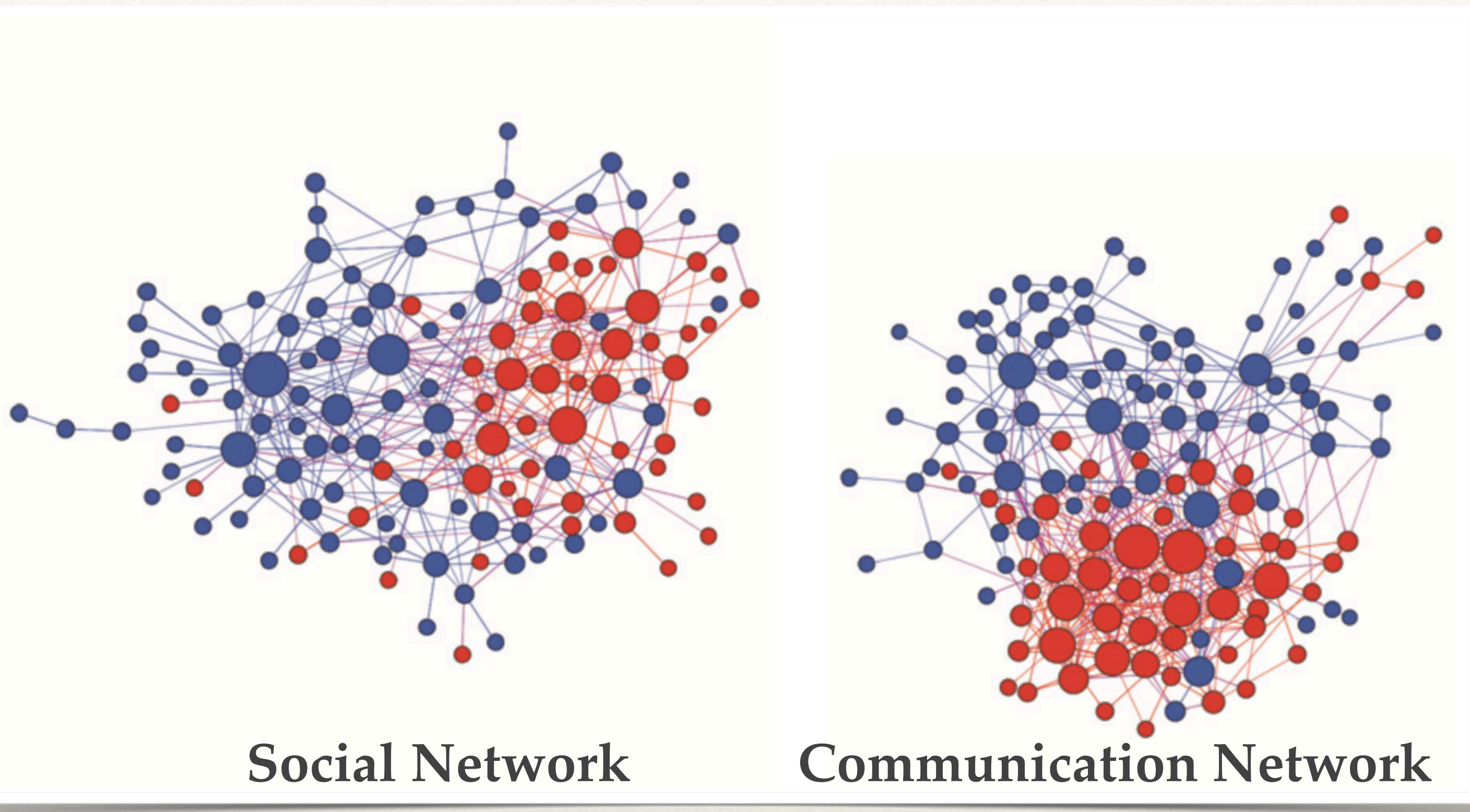


fan di lajello

haters di lajello

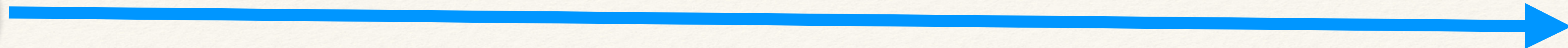
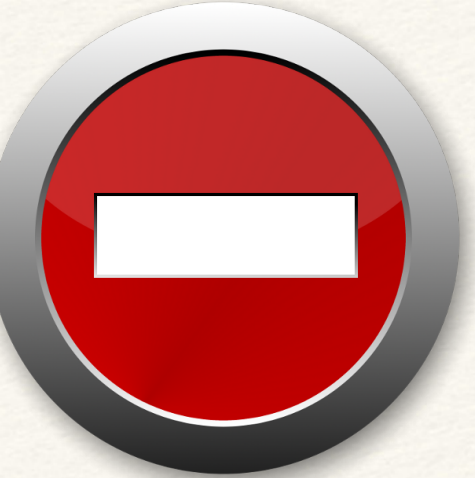
i collegamenti sono  
connessioni sociali o  
messaggi diretti  
(il grafo è diretto)

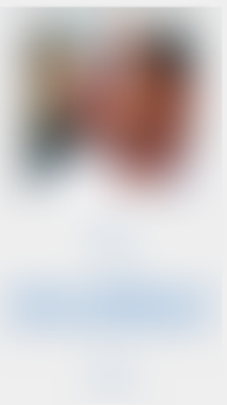
dimensione proporzionale  
al numero di collegamenti  
(grado)



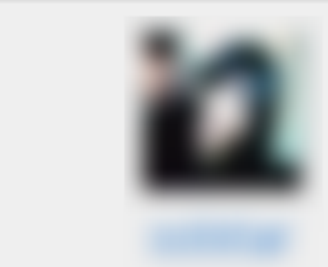
Social Network


Communication Network

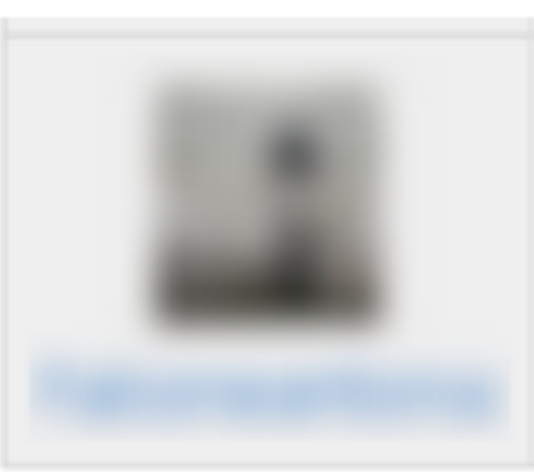


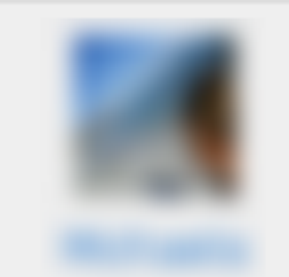
 LAJELLO... HAI STUFATO..NON SE NE PUO' PIU' ...STA ATTENTO/A CHE SONO CAPACE DI ASSOLDARE UN HACKER PER VEDERE CHI SEI..E PO' SONO C...TUOI


Tre settimane fa 

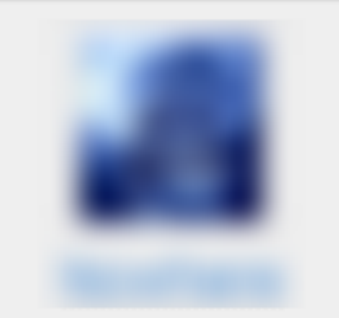
 ahahahhahaha tu sei un genio!!!! sei davvero un genio!!! insomma ma quante visualizzazioni hai???? sei un grande!!!! riesci a farti visitare e a farti scrivere pur non avendo libri!!! ti adoro sei grandissimo :P


Aug 13, 2010 

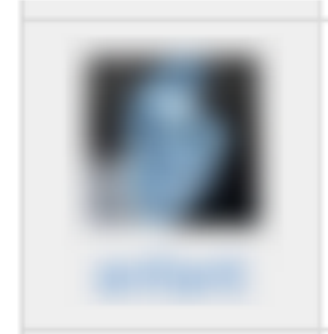
 chi sei?

 un grande.  
continua così. Grazie delle visite, si vede che ti sto simpatica....  
P.S: propongo di aprire un gruppo the Lajellos fans...

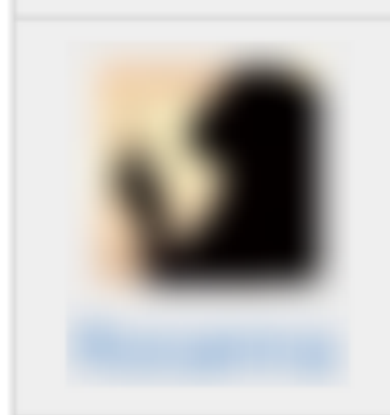
3 giorni fa 

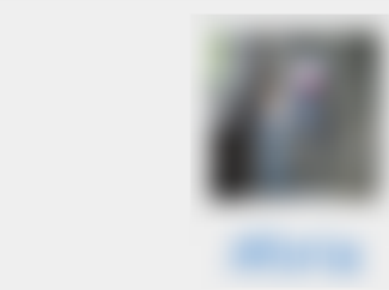
 già che mi ritrovo qui mi faccio pubblicità! Venite a vedere la mia libreria è la più bella -del mondo-. (l'ultima parte andava sottolineata..)


Due set 

 chapeau!!

 Le tue visite cominciano ad essere inquietanti....

 ahahahaahah tu sei un genio!!

 Grazie Lajello, mi sono divertita un sacco a leggere i commenti degli altri anobiani. Sembra un esperimento di psicologia sociale, se non ti dispiace ti aggiungo come vicino! e resisti eh...non pubblicare un libro! ;)

Due settimane fa 

CARLO BLENGINO

BLOG

VENERDÌ 27 LUGLIO 2012

# Lo strano caso Lajello



Lajello compare in rete in una fredda mattina di fine 2009, su aNobii, il social network dedicato ai libri ed alla lettura.



Tutto inizia al Dipartimento di Informatica dell'Università di Torino dove un gruppo di ricercatori dell'**ARCS (Applied Research on Computational Complex System)** studia i complicati link e le dinamiche che si formano nei social media e sul web. Fanno data mining sulle enormi quantità di informazioni che quotidianamente immettiamo in rete, sui social network.

Nel loro lavoro il “dimmi con chi vai e ti dirò chi sei” può declinarsi al futuro: dimmi con chi vai e ti dirò non solo chi sei, ma chi sarai domani, chi conoscerai, dove andrai nelle



Carlo Blengino

*Avvocato penalista, affronta nelle aule giudiziarie il diritto delle nuove tecnologie, le questioni di copyright e di data protection. È fellow del NEXA Center for Internet & Society del Politecnico di Torino. @CBlengio su Twitter*

MIT  
Technology  
Review

Connectivity

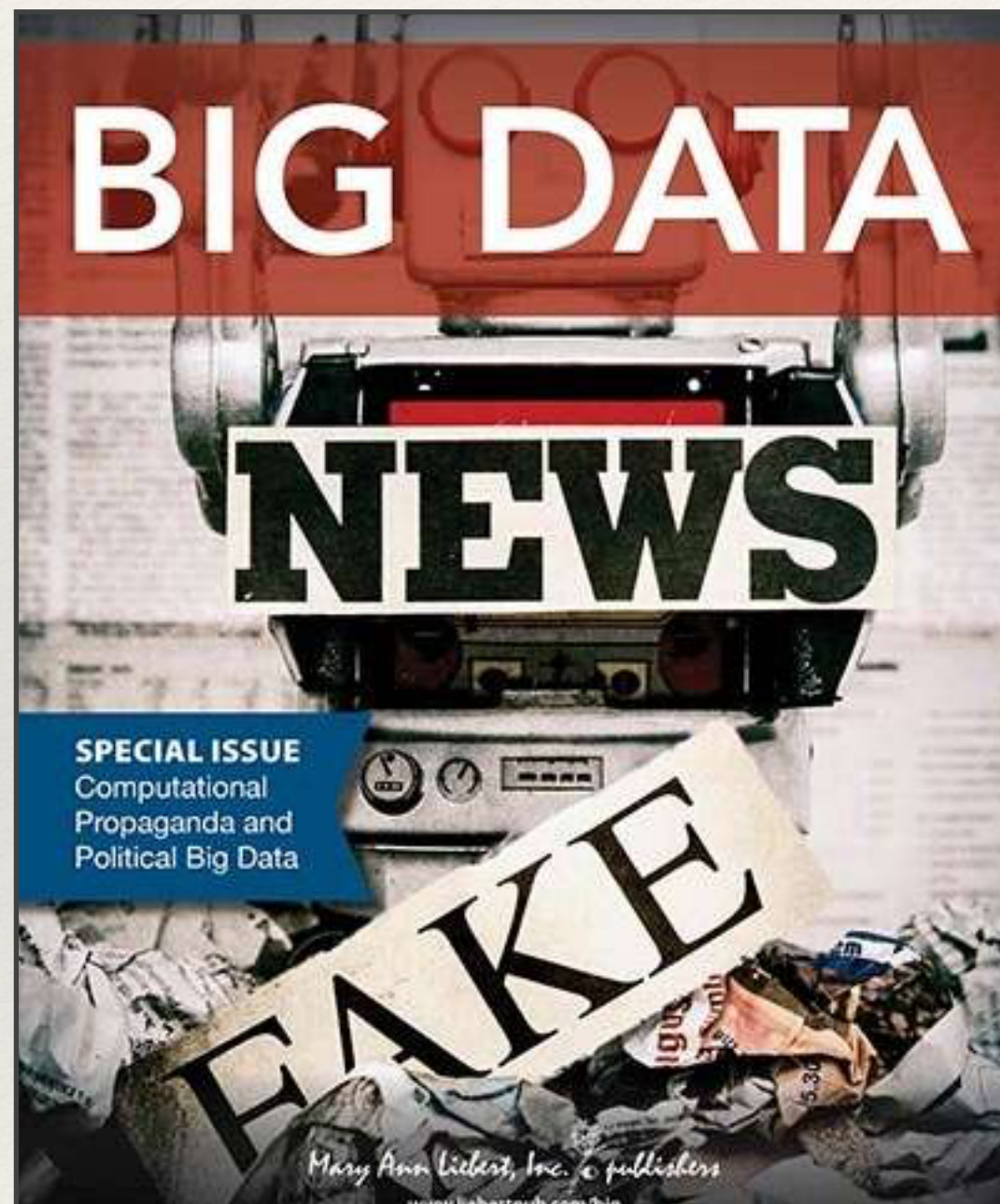
## How a Simple Spambot Became the Second Most Powerful Member of an Italian Social Network

The surprising story of how an experiment to automate the creation of popularity and influence became successful beyond all expectation.

by Emerging Technology from the arXiv

Aug 5, 2014

# Influence of bots



## COMMUNICATIONS OF THE ACM

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Home / Magazine Archive / July 2016 (Vol. 59, No. 7) / The Rise of Social Bots / Full Text

### REVIEW ARTICLES

## The Rise of Social Bots

By Emilio Ferrara, Onur Varol, Clayton Davis, Filippo Menczer, Alessandro Flammini

Communications of the ACM, Vol. 59 No. 7, Pages 96-104

10.1145/2818717

Comments (1)



nature  
COMMUNICATIONS

Article | [Open Access](#) | Published: 20 November 2018

## The spread of low-credibility content by social bots

Chengcheng Shao, Giovanni Luca Ciampaglia, Onur Varol, Kai-Cheng Yang, Alessandro Flammini & Filippo Menczer

Nature Communications 9, Article number: 4787 (2018) | [Download Citation](#)





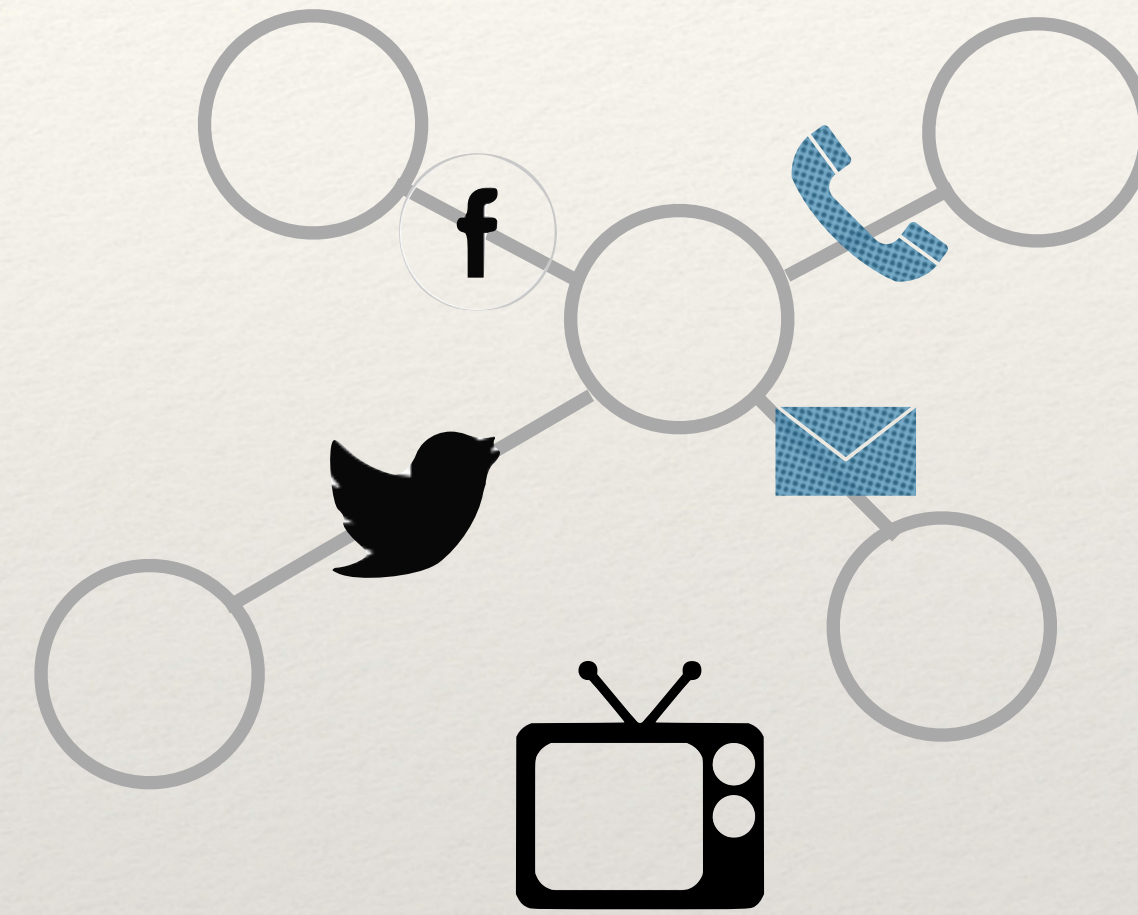
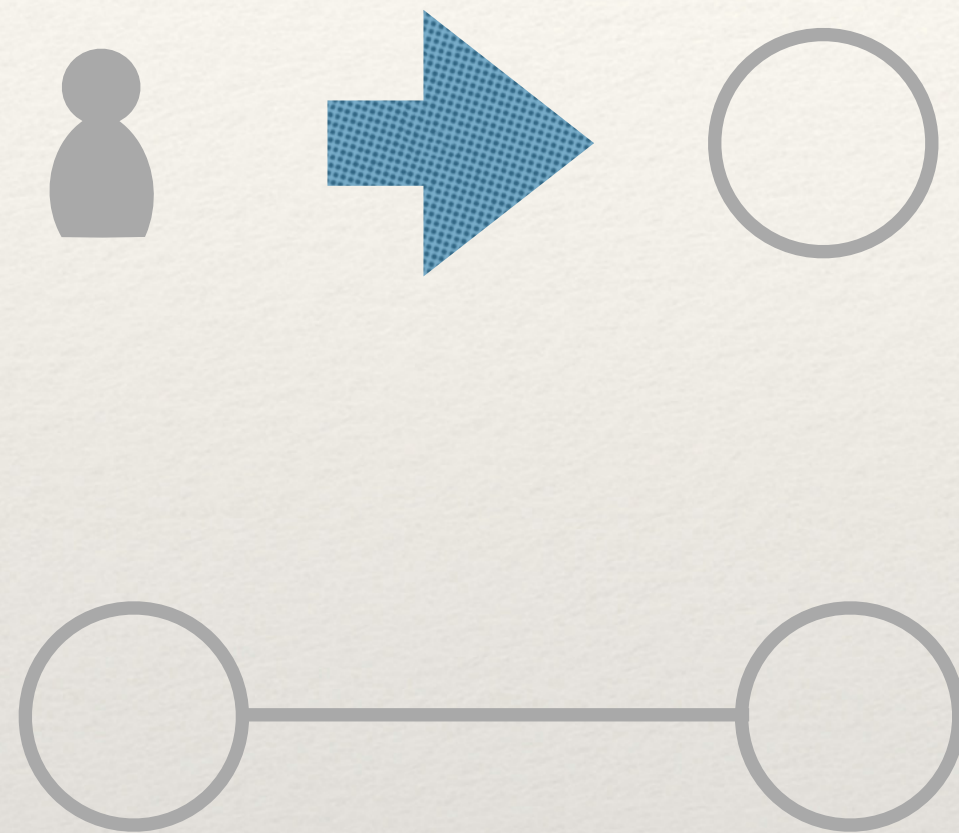
Emergent  
A real-time rumor tracker.



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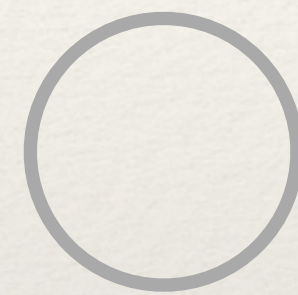
# Contesto

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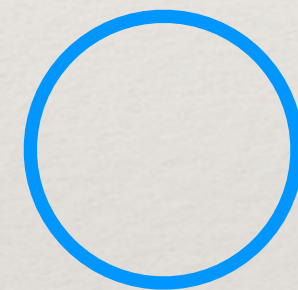


# Diffusione epidemica di notizie false

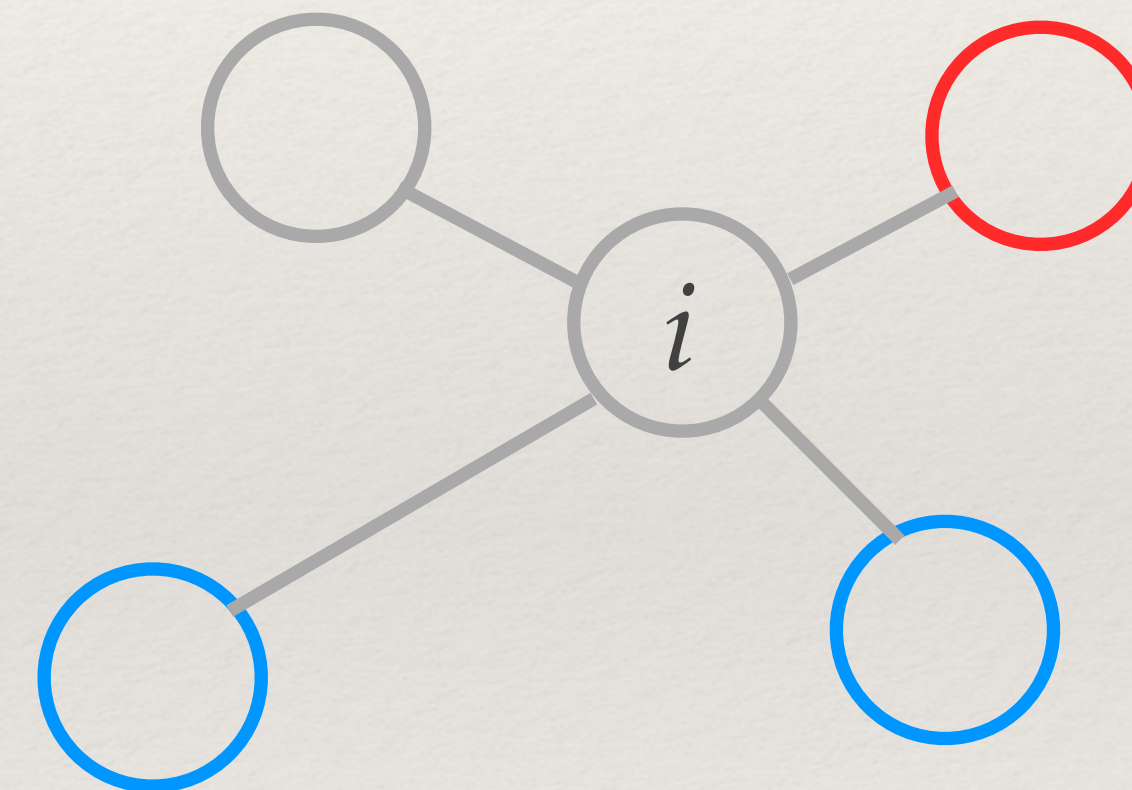
❖ Suscettibile



❖ Credulone



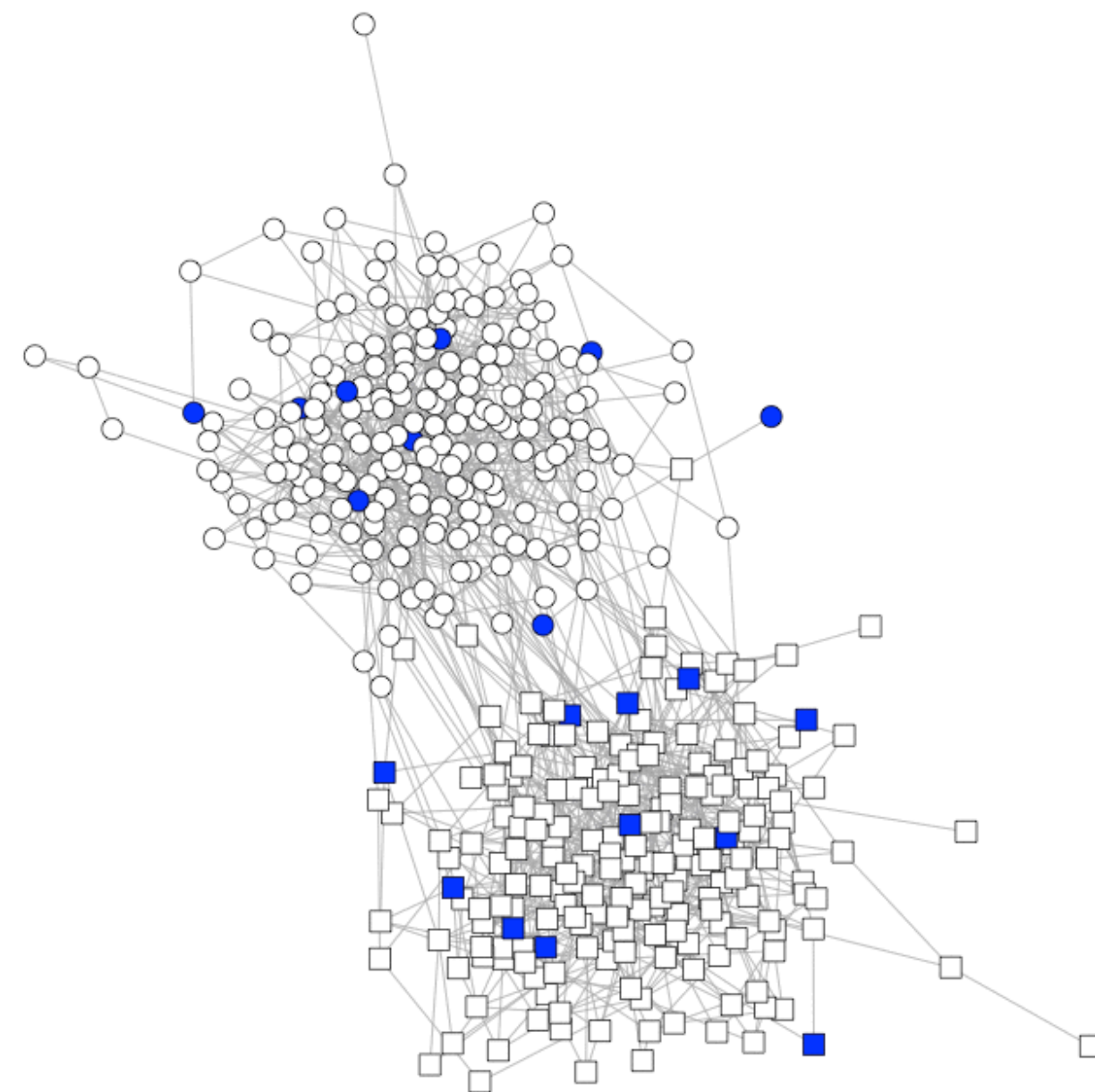
❖ Fact-Checker



# “dimenticare” (bufale vs teorie del complotto)

LOW Forgetting Rate

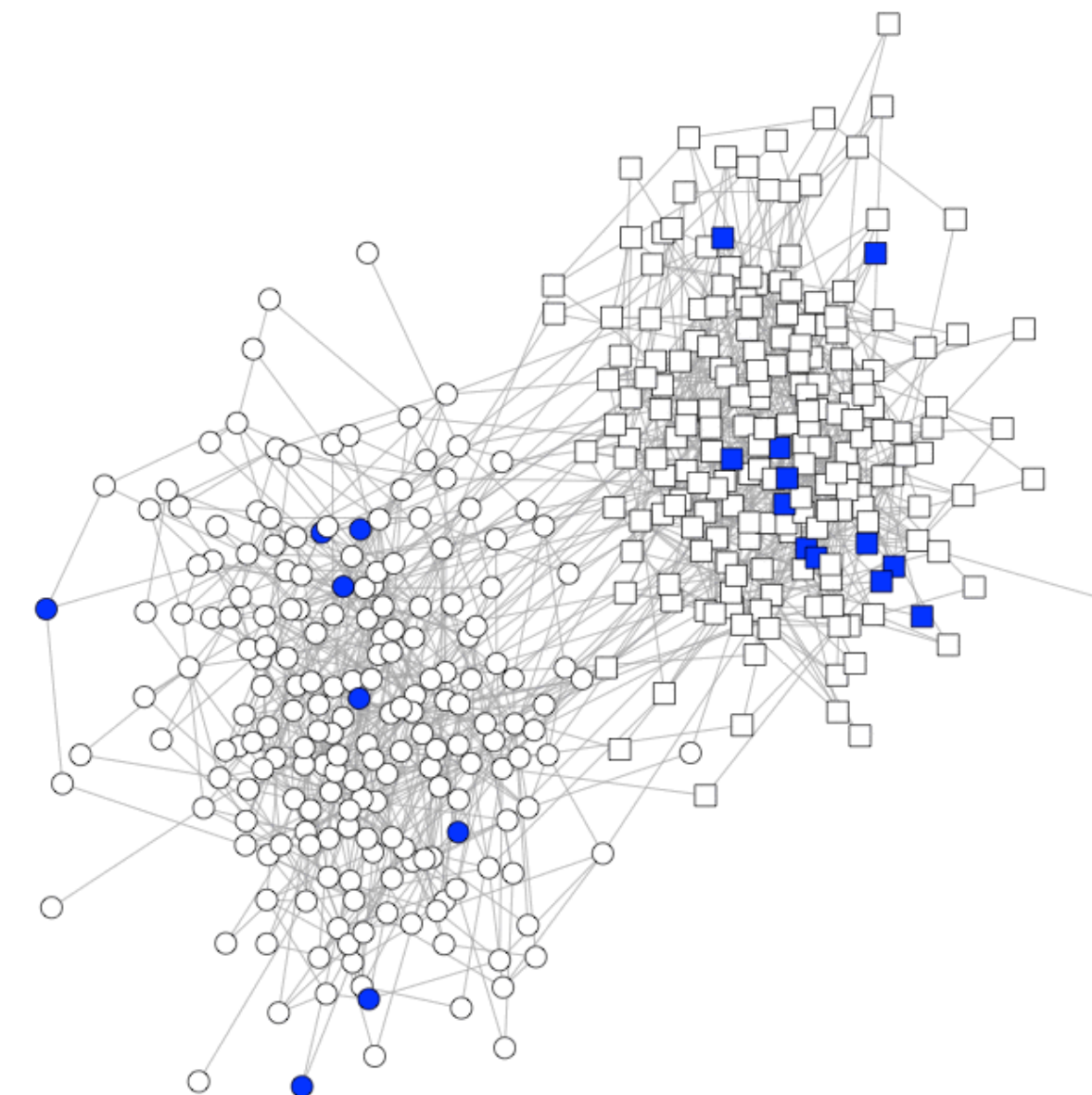
$$p_f = 0.1$$



Time = 1

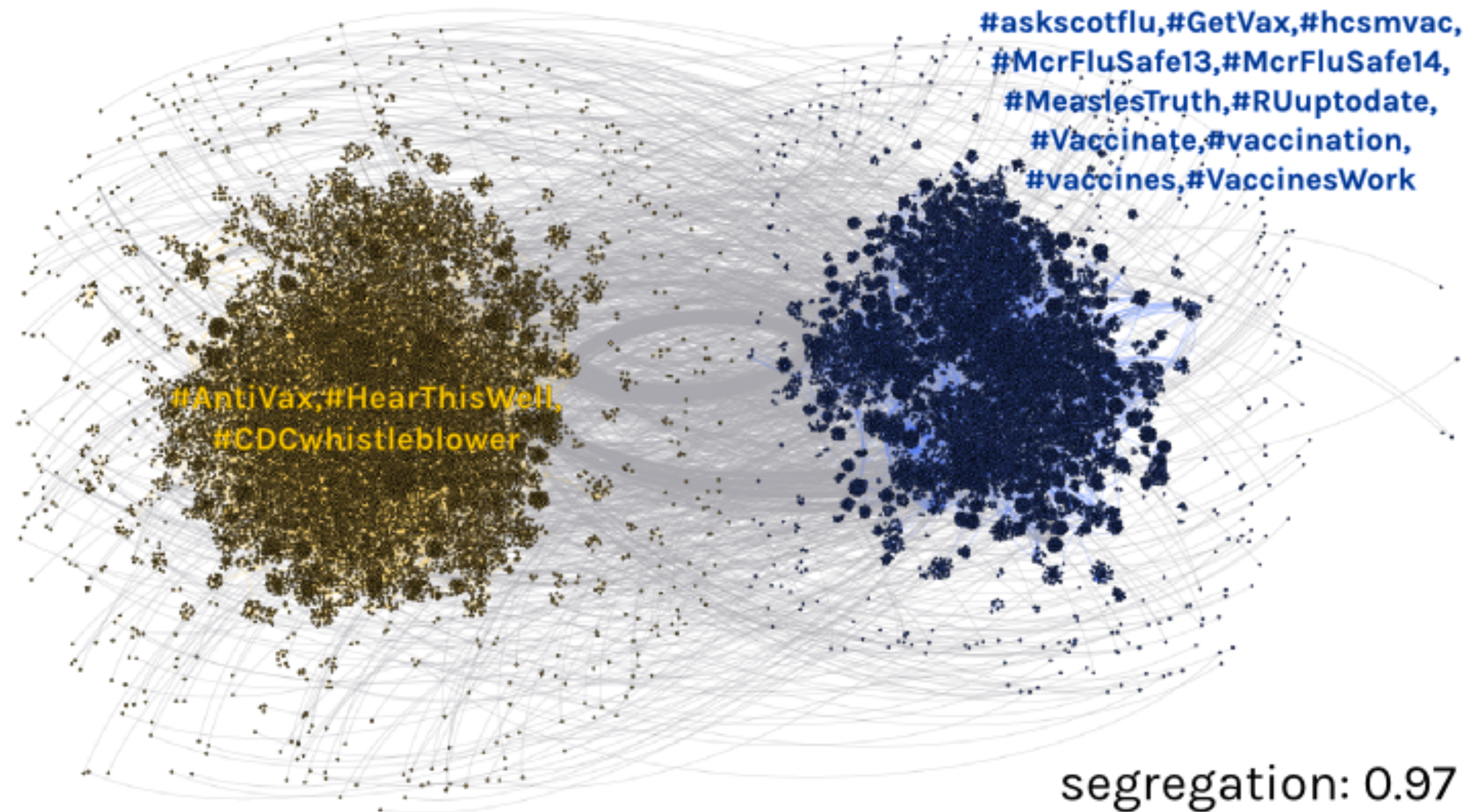
HIGH Forgetting Rate

$$p_f = 0.8$$



Time = 1

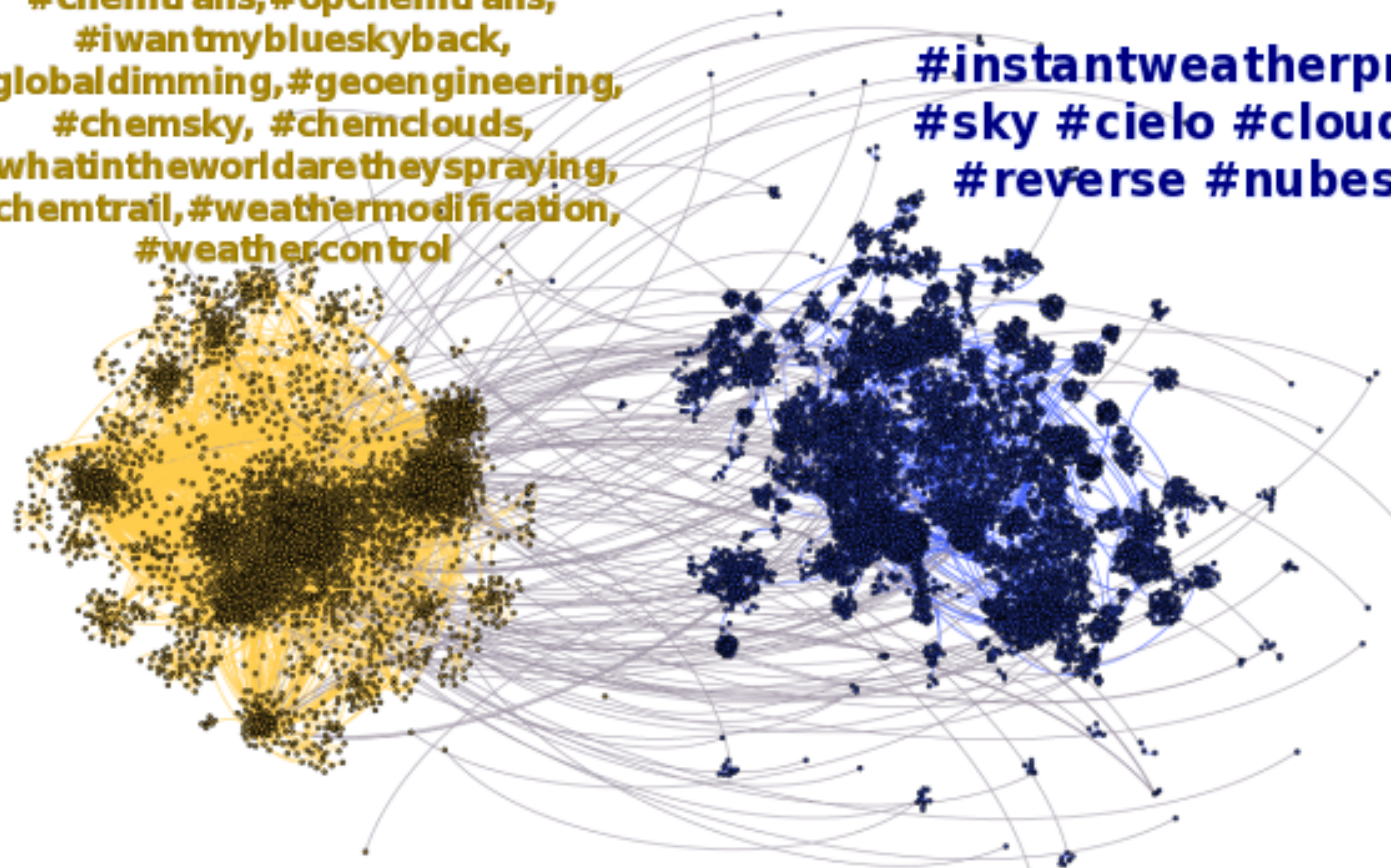
# dati twitter: dibattito su vaccini



# dati twitter: dibattito su scie chimiche

**#chemtrails, #opchemtrails,  
#iwantmyblueskyback,  
#globaldimming, #geoengineering,  
#chemsky, #chemclouds,  
#whatintheworldaretheyspraying,  
#chemtrail, #weathermodification,  
#weathercontrol**

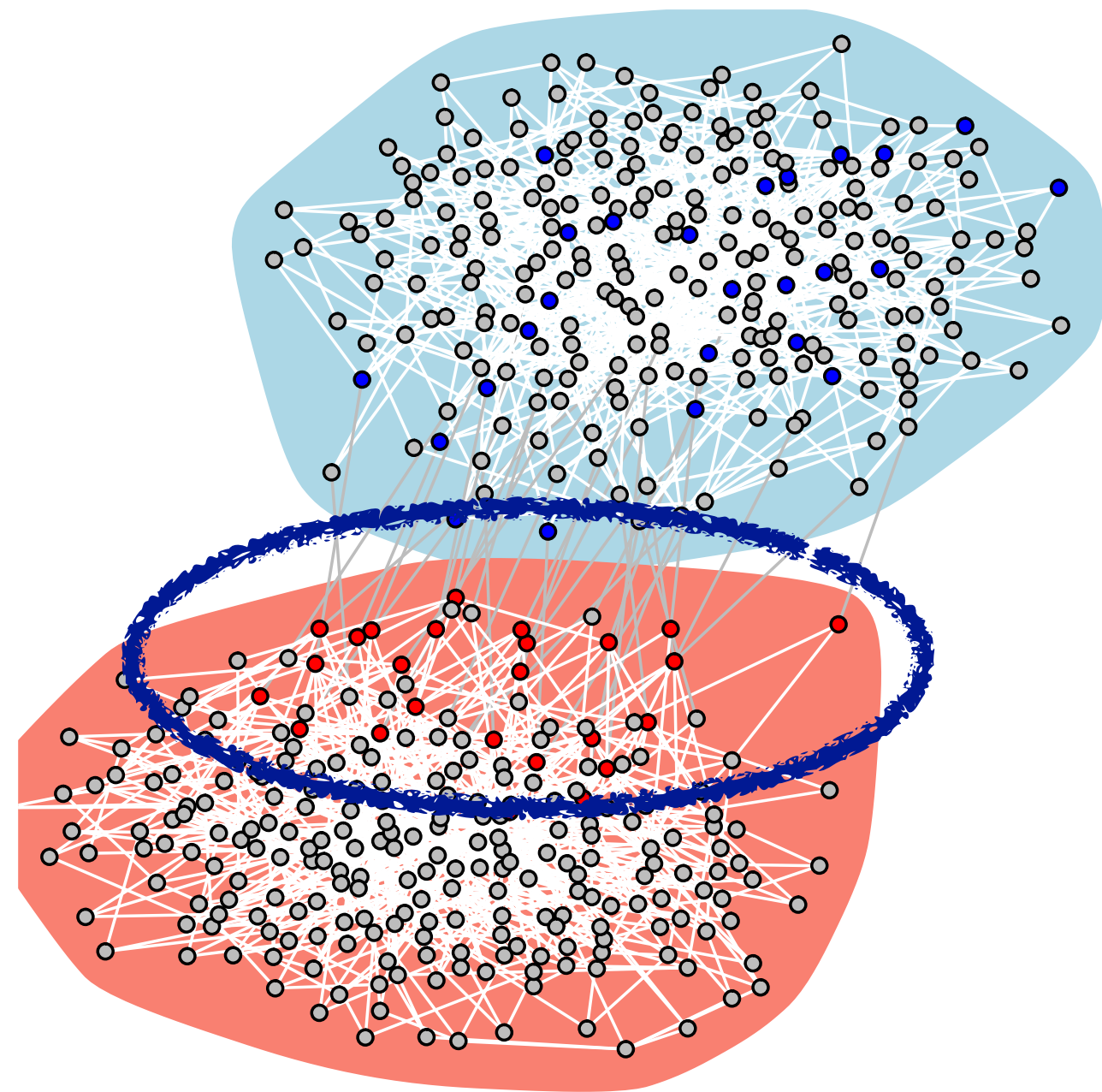
**#instantweatherpro  
#sky #cielo #clouds  
#reverse #nubes**



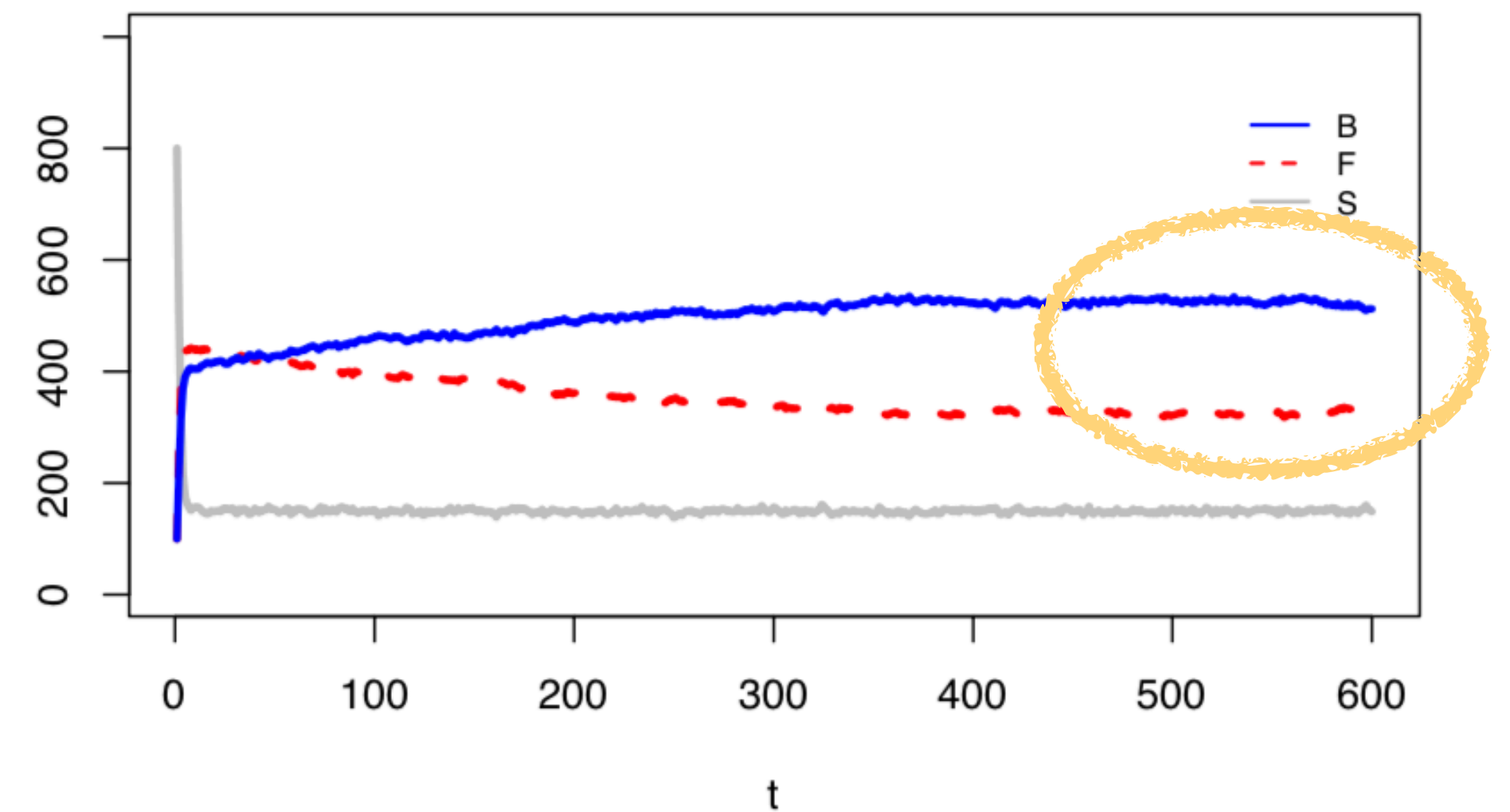
twitter data from IU <https://osome.iuni.iu.edu>

segregation: 0.99

# La posizione migliore per il fact checker



## risultati della simulazione



## SPECIAL REPORT

# Finland is winning the war on fake news. What it's learned may be crucial to Western democracy

By Eliza Mackintosh, CNN  
Video by Edward Kiernan, CNN



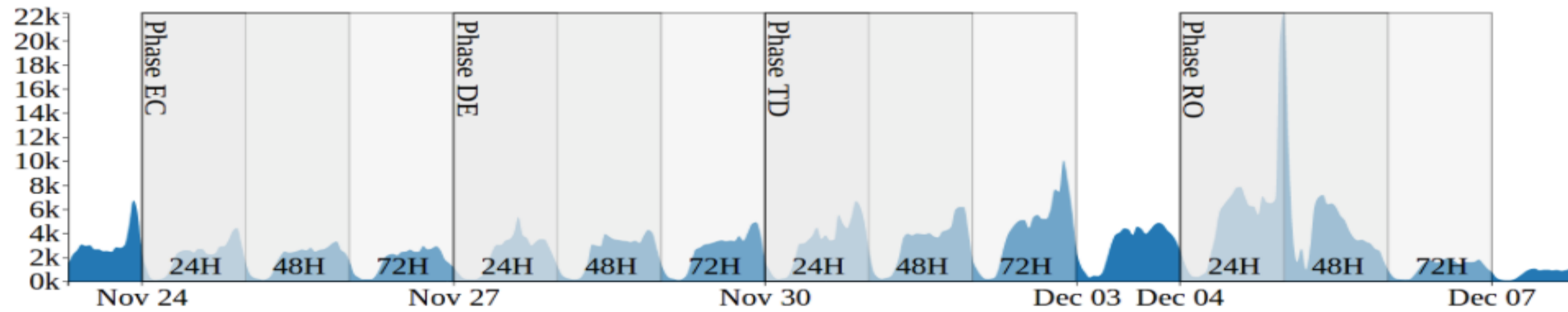
**Helsinki, Finland (CNN)** – On a recent afternoon in Helsinki, a group of students gathered to hear a lecture on a subject that is far from a staple in most community college curriculums.

Standing in front of the classroom at Espoo Adult Education Centre, Jussi Toivanen worked his way through his PowerPoint presentation. A slide titled “Have you been hit by the Russian troll army?” included a checklist of methods used to deceive readers on social media: image and video manipulations, half-truths, intimidation and false profiles.



# Referendum Italiano 2016

Tweet collezionati



- opinione rilevata **contraria**
- opinione rilevata **a favore**
- opinione rilevata **nulla**

*EC*



*DE*



*TD*



*RO*

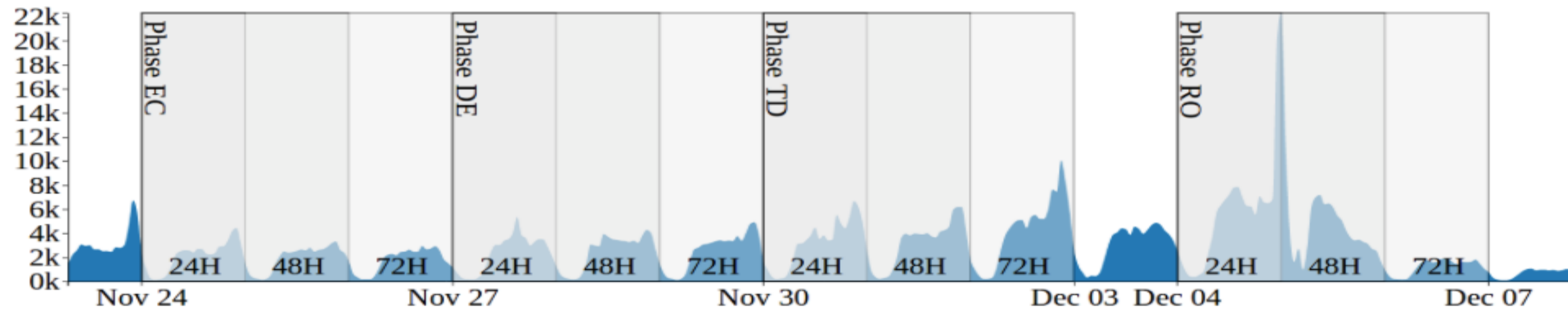


Retweet Network

forte segnale di omofilia

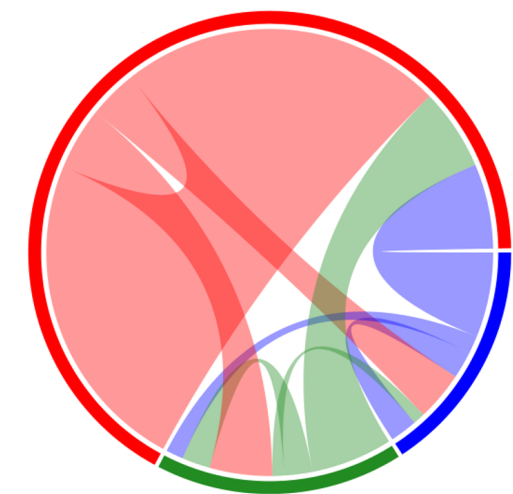
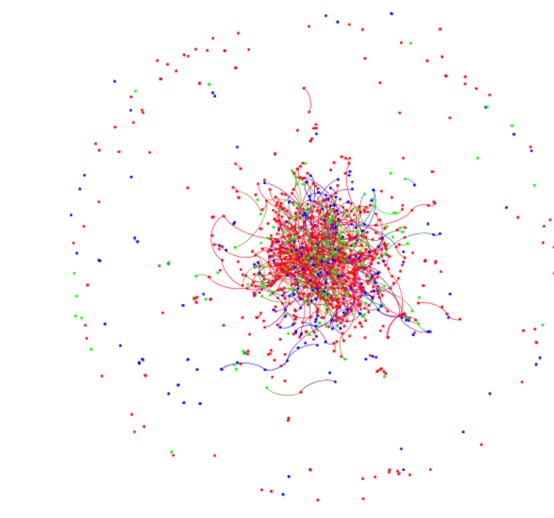
# Referendum Italiano 2016

Tweet collezionati

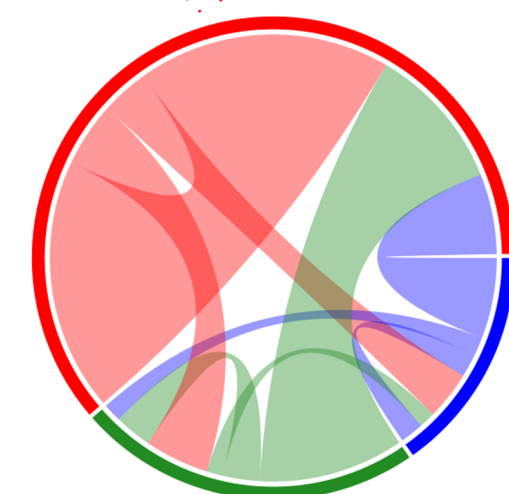
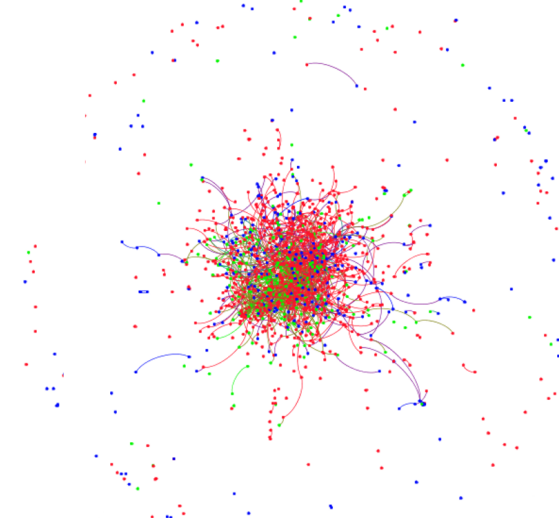


- opinione rilevata **contraria**
- opinione rilevata **a favore**
- opinione rilevata **nulla**

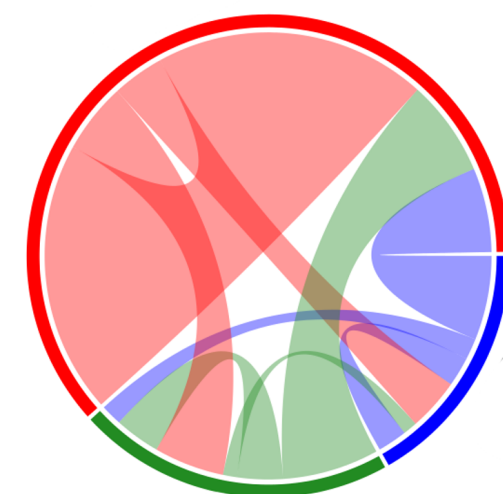
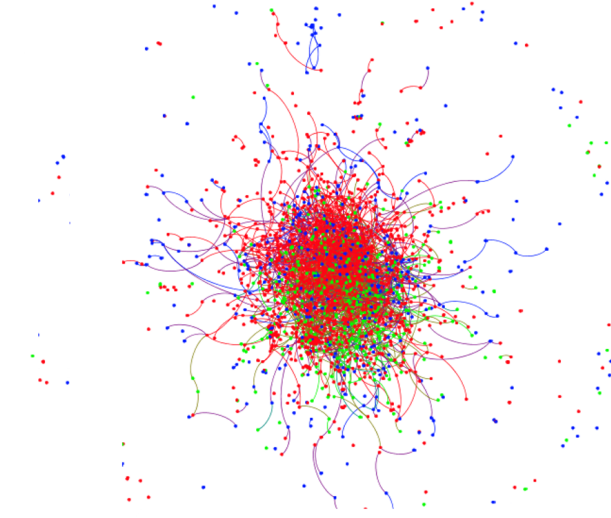
*EC*



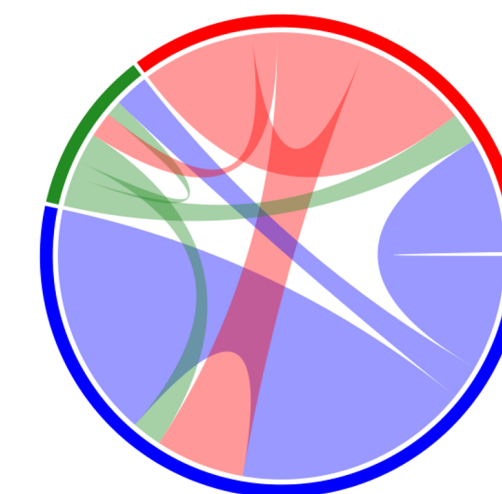
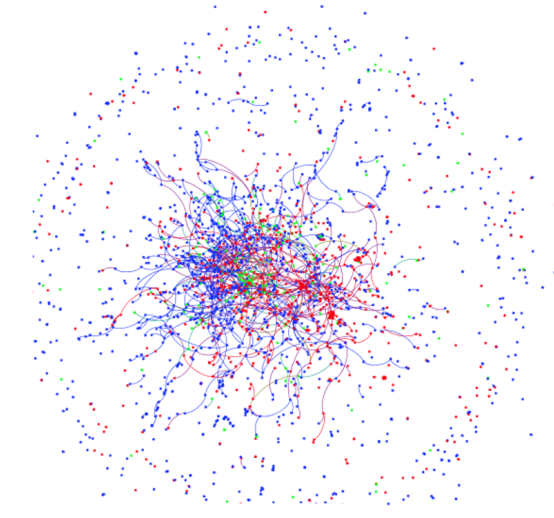
*DE*



*TD*



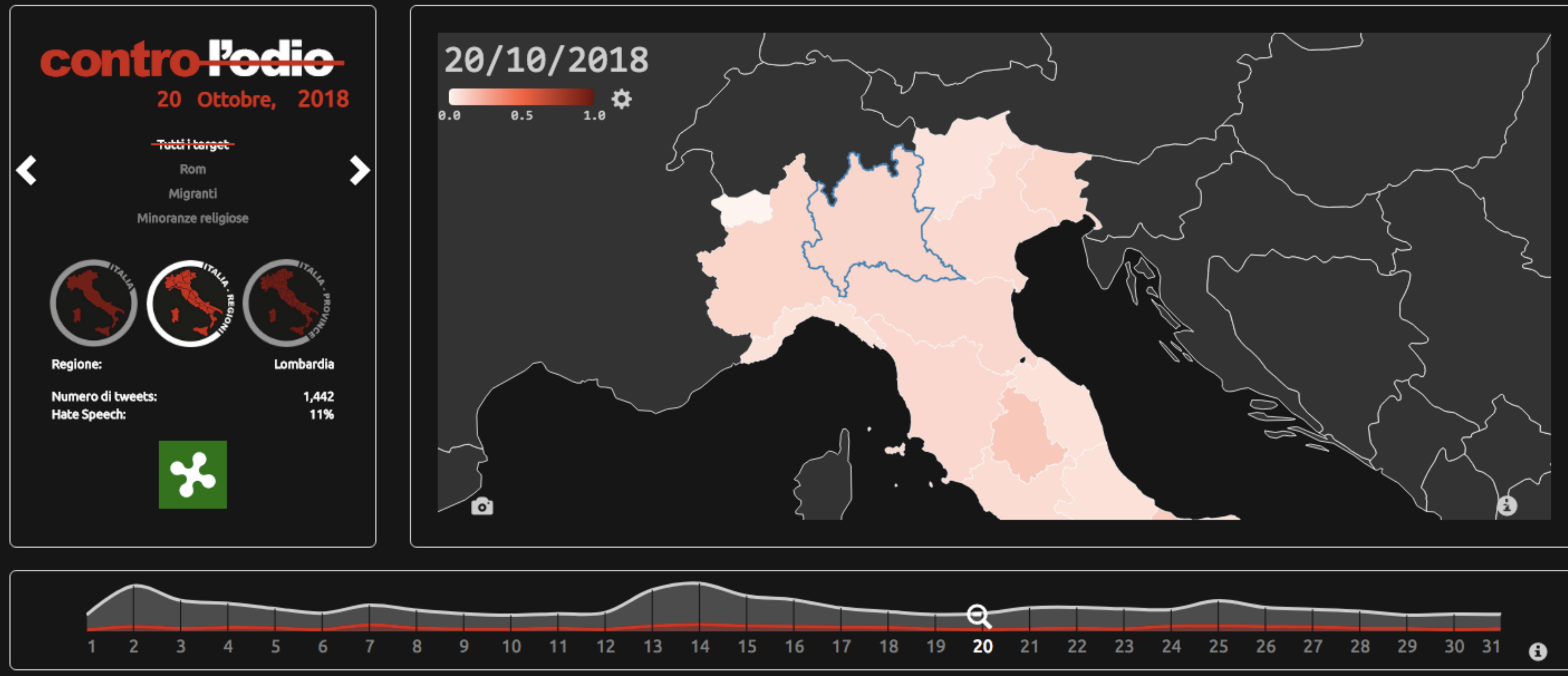
*RO*



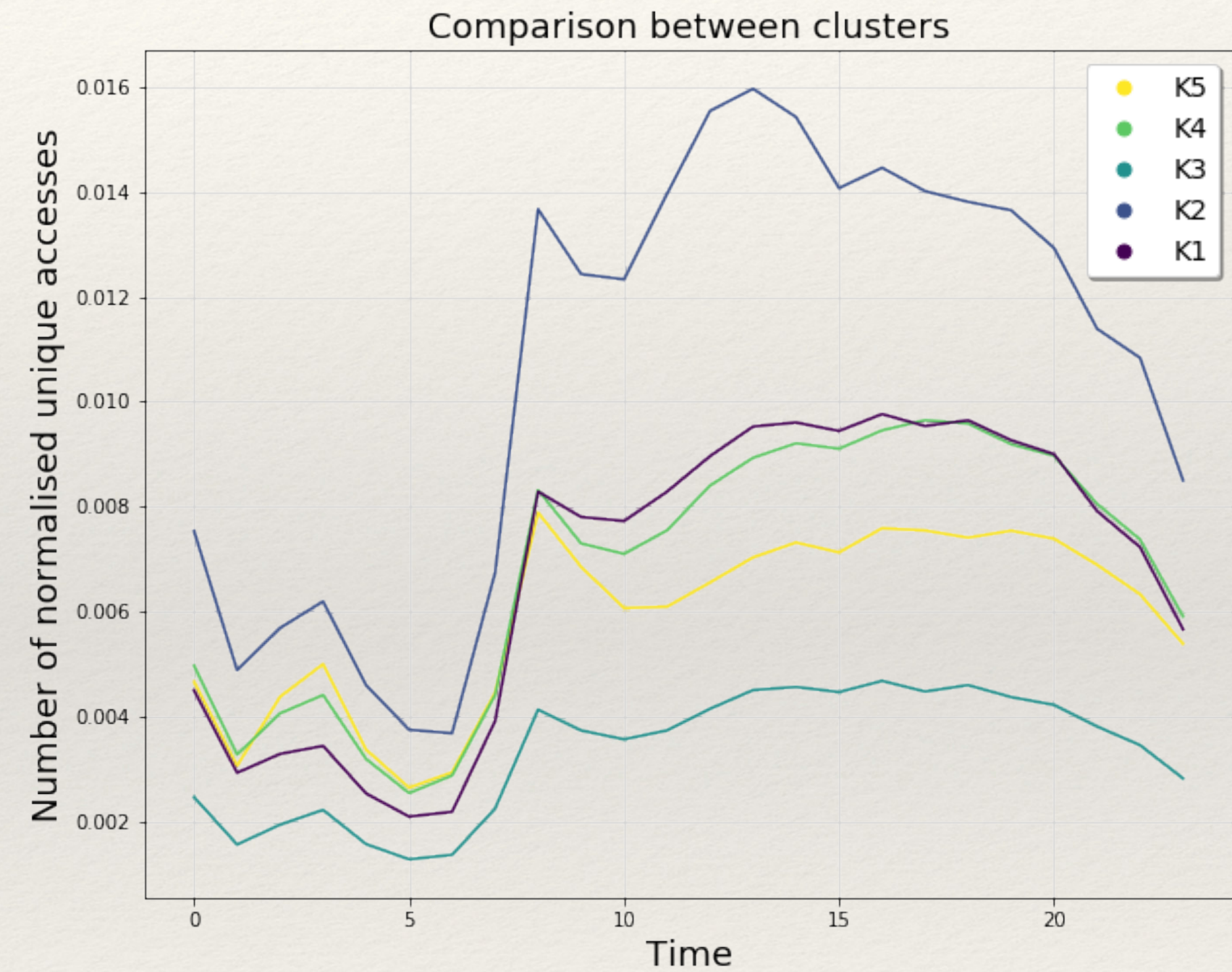
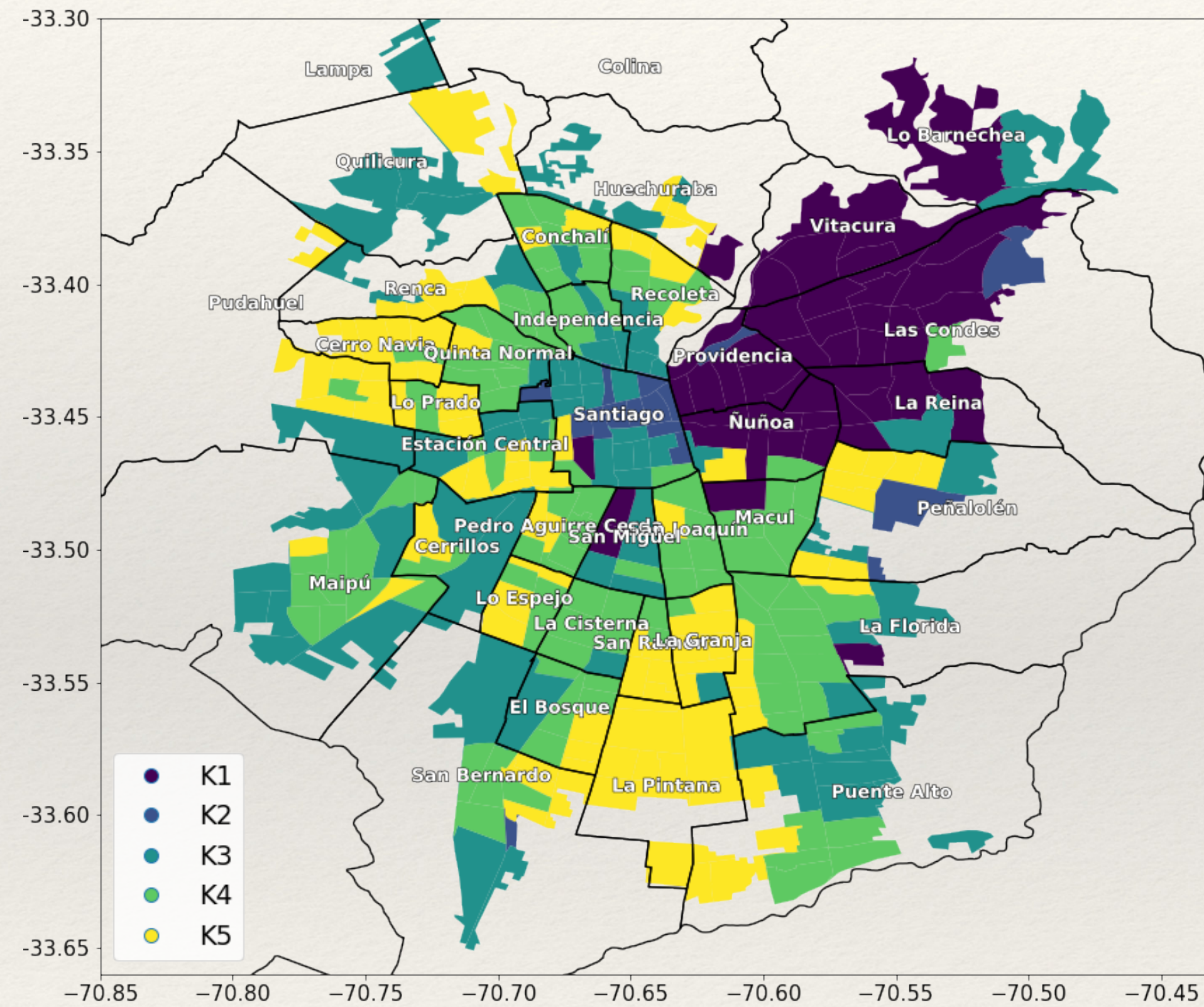
Reply-to Network

segnale di omofilia  
inversa o eterofilia

# Hate speech monitoring (Contro l'Odio)



# Accesso alle notizie (Santiago del Chile)



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# Riferimenti

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LM Aiello, A Barrat, C Cattuto, G Ruffo, R Schifanella, 2010. [Link creation and profile alignment in the aNobii social network](#), 2010 IEEE 2nd Int.. Conf. on Social Computing, 249-256

LM Aiello, A Barrat, C Cattuto, G Ruffo, R Schifanella, [Link creation and information spreading over social and communication ties in interest based online social network](#), EPJ Data Science 1 (1), 12

LM Aiello, M. Deplano, R Schifanella, G Ruffo. 2012, [People are Strange when you're a Stranger: Impact and Influence of Bots on Social Networks](#), in Proc. of the 6th Intern. AAAI Conf. on Weblogs and Social Media (ICWSM'12), Dublin, Ireland

M Tambuscio, G Ruffo, A Flammini, and F Menczer. 2015. [Fact-checking Effect on Viral Hoaxes: A Model of Misinformation Spread in Social Networks](#). In Proc. of the 24th Int. Conf. on World Wide Web (WWW '15 Companion)

M Tambuscio, D F M Oliveira, G L Ciampaglia, G Ruffo, 2019. [Network segregation in a model of misinformation and fact-checking](#), Journal of Computational Social Science (2018) 1: 261.

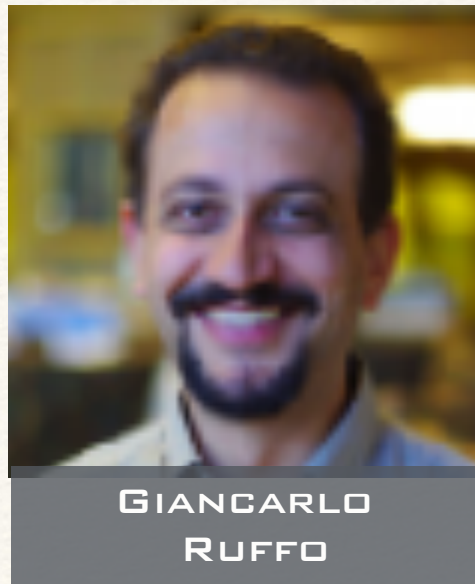
M Tambuscio, G. Ruffo. 2019, [Fact-checking strategies to limit urban legends spreading in a segregated society](#), Applied Network Science Journal, Springer

M Lai, M Tambuscio, V Patti, P Rosso, G. Ruffo, [Stance Polarity in Political Debates: a Diachronic Perspective of Network Homophily and Conversations on Twitter](#), Data & Knowledge Engineering Journal, online: September 2019

A T E Capozzi, V Patti, G Ruffo, and C Bosco. 2018. [A Data Viz Platform as a Support to Study, Analyze and Understand the Hate Speech Phenomenon](#). In Proceedings of the 2nd International Conference on Web Studies (WS.2 2018), ACM

A T. E. Capozzi, M Lai, V Basile, C Musto, M Polignano, F Poletto, M Sanguinetti, C Bosco, V Patti, G Ruffo, G Semeraro and M Stranisci. [Computational Linguistics Against Hate: Hate Speech Detection and Visualization on Social Media in the "Contro L'Odio" Project](#), in Proc. of CLIC 2019

S Vilella, D Paolotti, G Ruffo, L Ferres, [News and the city: understanding online press consumption patterns through mobile data](#), <https://arxiv.org/abs/1907.02480>



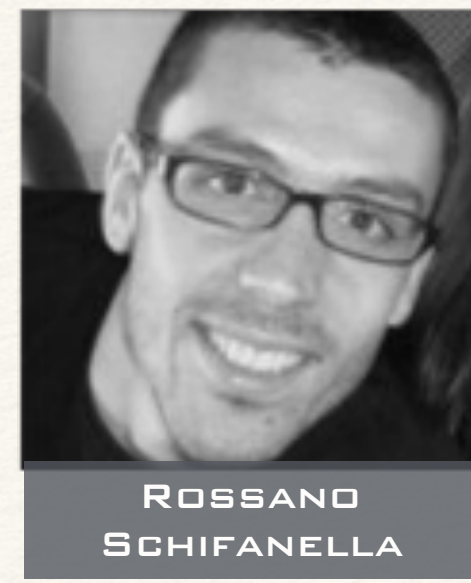
GIANCARLO RUFFO



MARCELLA TAMBUSCIO



MIRKO LAI



ROSSANO SCHIFANELLA



ANDRÉ PANISSON



LUCA AIELLO



VIVIANA PATTI



ARTHUR CAPOZZI



EDUARDO GALIMBERTI



ALFONSO SEMERARO



ALESSANDRA URBINATI



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EMILIO SULIS



MARTINA DEPLANO



CRISTINA BOSCO

ARC<sup>2</sup>S: Applied Research on Computational Complex Systems

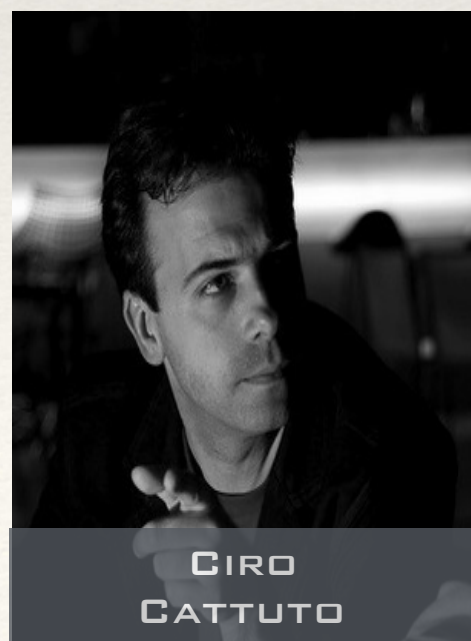
Thanks!



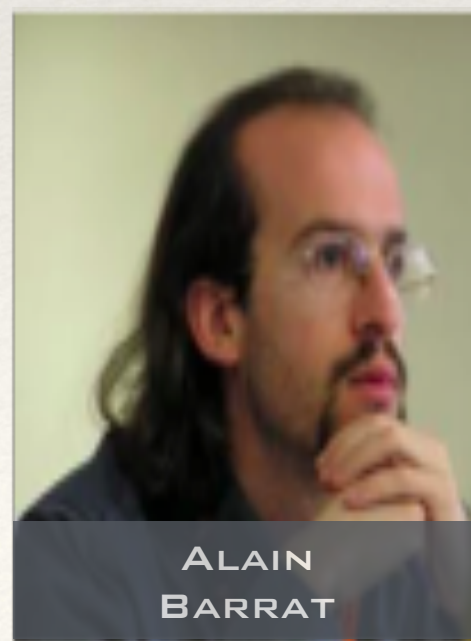
PAOLO ROSSO



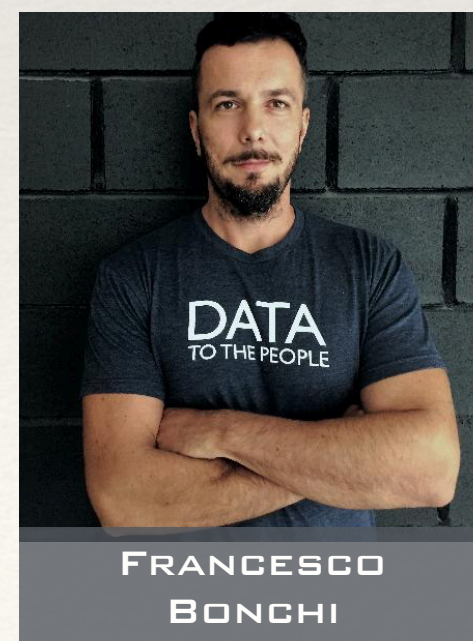
LEO FERRER



CIRO CATTUTO



ALAIN BARRAT



FRANCESCO BONCHI



DANIELA PAIOTTI



CHENGCHENG SHAO



GIOVANNI LUIGI CIAMPAGLIA



ALESSANDRO FLAMMINI



FIL MENCZER