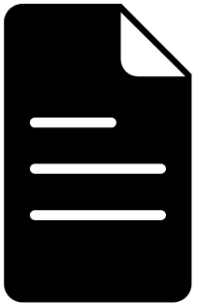
THE HOPE AND DESPAIR OF SCIENCE AND TDM

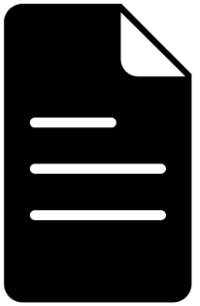
@CHARTGERINK (TWITTER AND GITHUB)

THE HOPE

DECREASED MORTALITY OF THE PATIENTS SIGNIFICANTLY, $F(1, 39) = 2.43$, $P < .05$.



DECREASED MORTALITY OF THE PATIENTS SIGNIFICANTLY, $F(1, 39) = 2.43, P < .05$.



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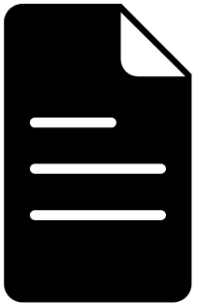


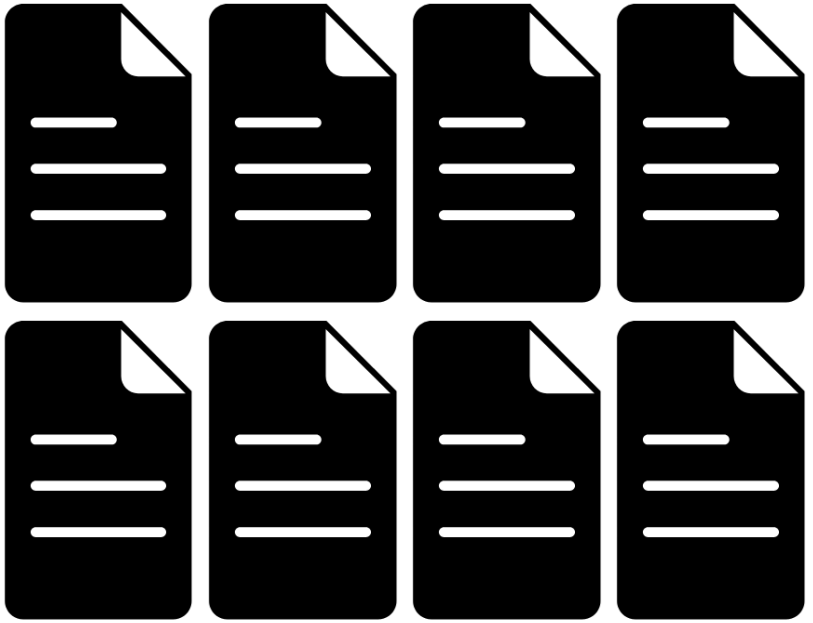
USE THIS INFORMATION TO RECALCULATE P-VALUE

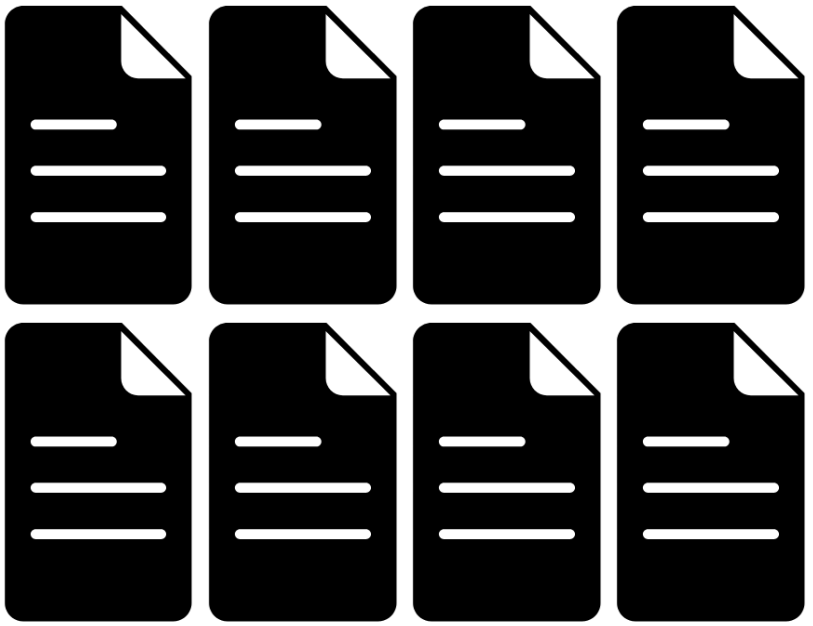
DECREASED MORTALITY OF THE PATIENTS SIGNIFICANTLY, $F(1, 39) = 2.43, P < .05$.

USE THIS INFORMATION TO RECALCULATE P-VALUE

→

P-VALUE NOT < .05
BUT 0.13! → NO EFFECT
WRONG CONCLUSION IN PAPER

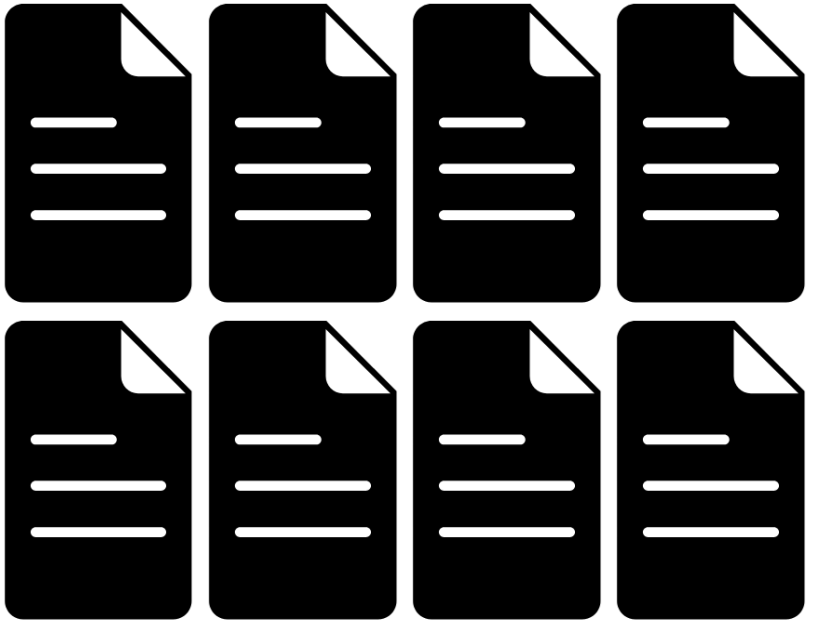




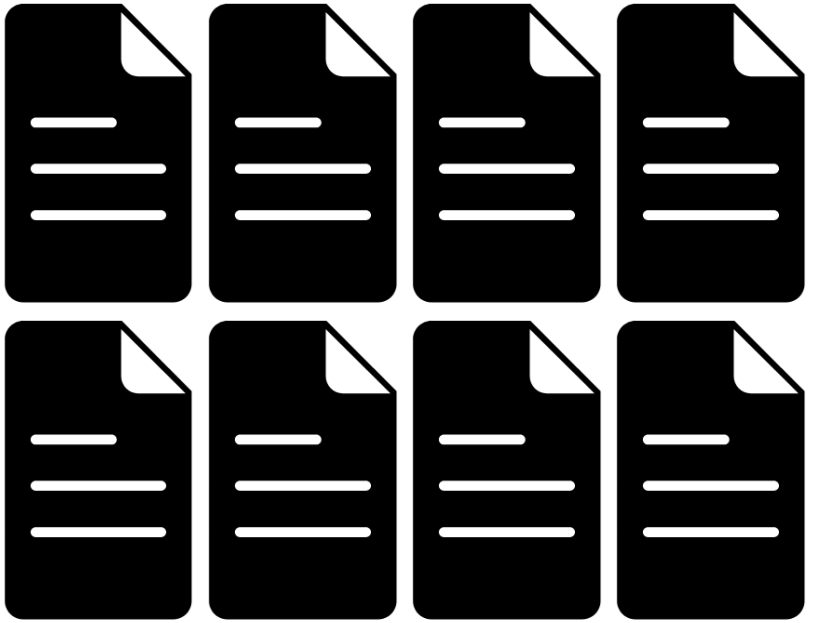

MARJAN, PLEASE CHECK ALL
THESE PAPERS MANUALLY


PFFFFFF THIS IS TAKING AGES

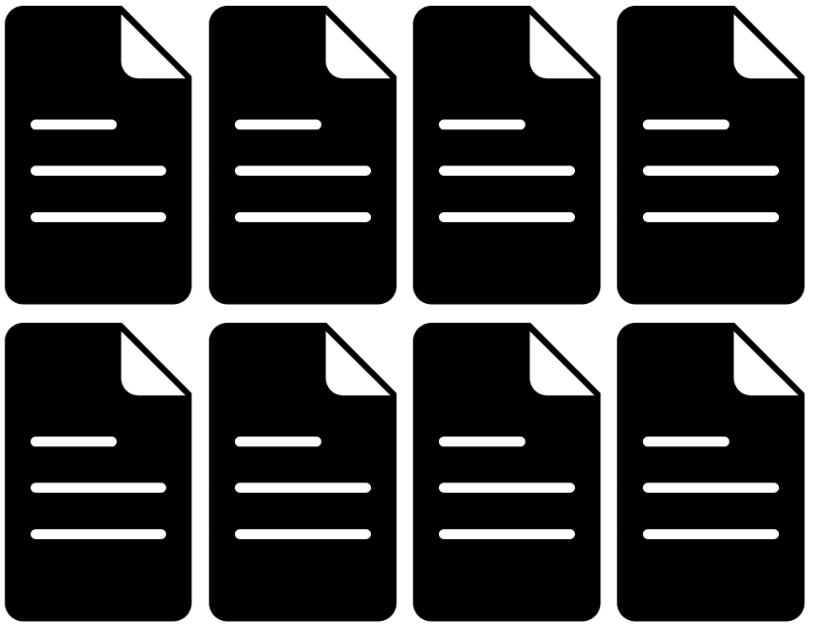
~2010



2012



2012



NOT TO WORRY! COMPUTERS CAN DO IT!

2013

statcheck

2013

statcheck

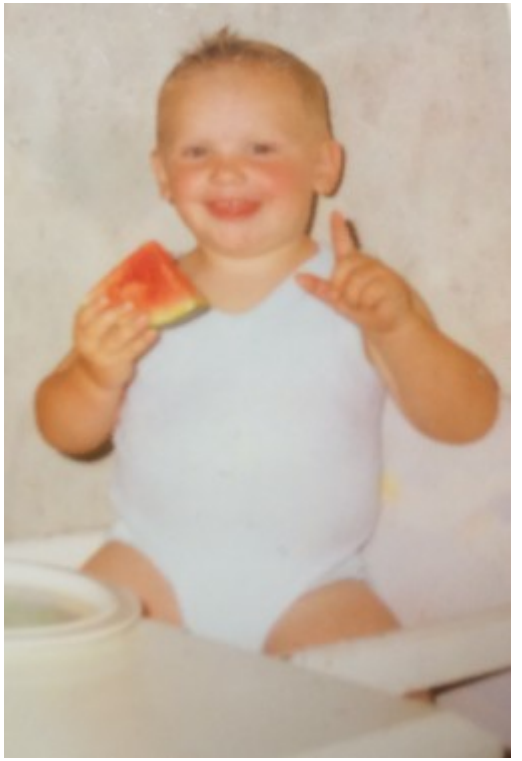
IT TAKES ONLY 10 SECONDS
FOR 100 PAPERS!

2013

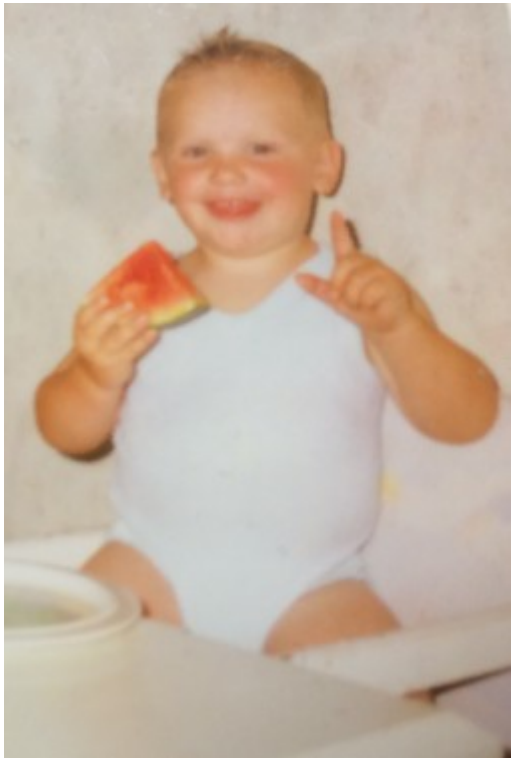
statcheck

NOW WE JUST NEED MORE PAPERS!

2013



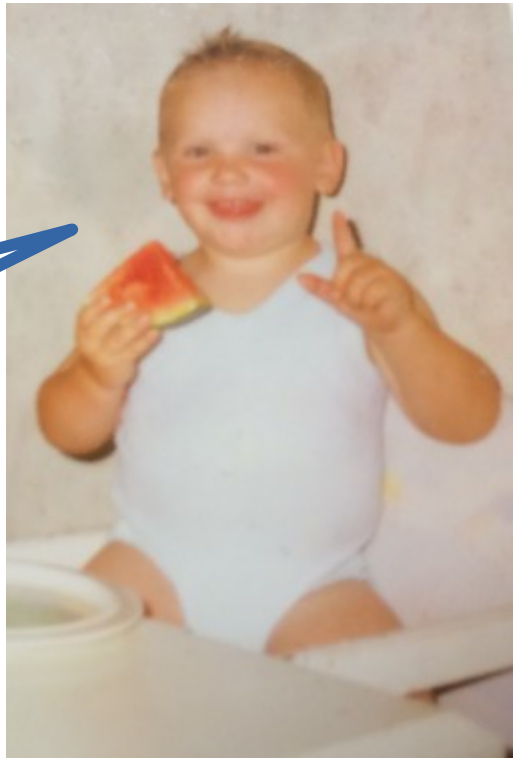
2014



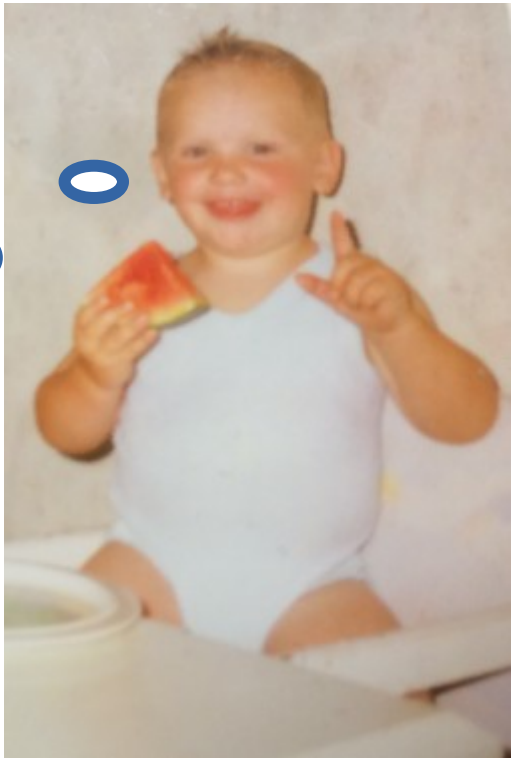
CHRIS, DOWNLOAD TENS OF THOUSAND PAPERS, MANUALLY

2014

CLICK CLICK DOWNLOAD
TIMES 30,000

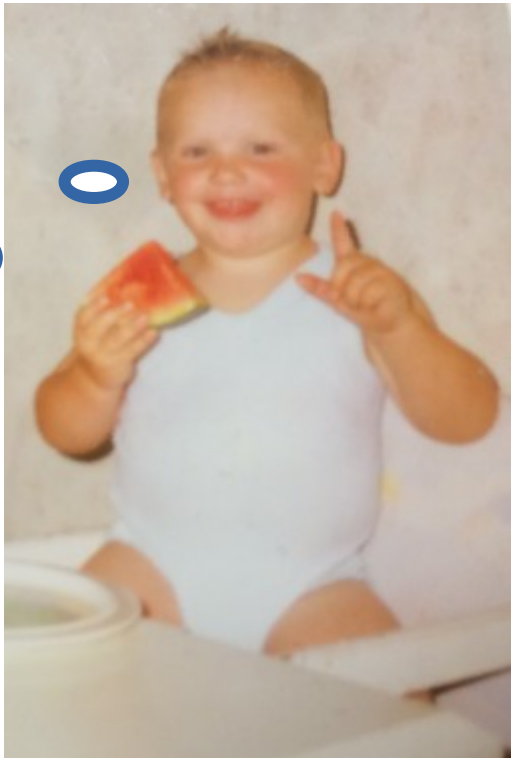


2014



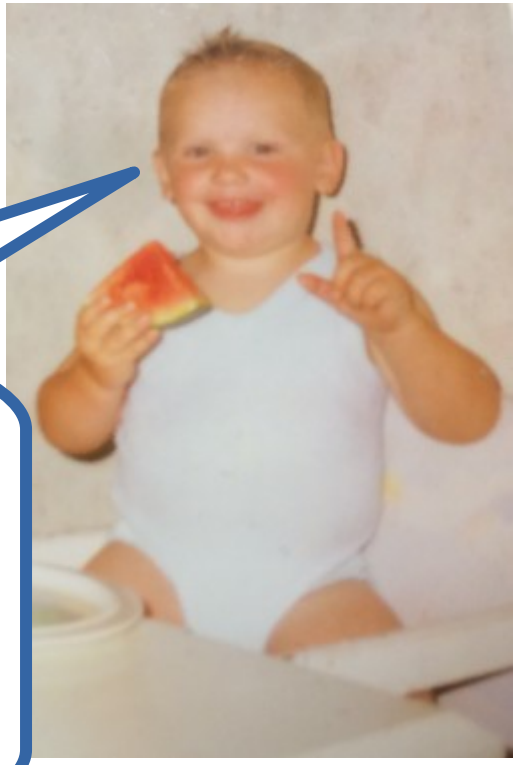
THERE MUST BE AN EASIER WAY

2014



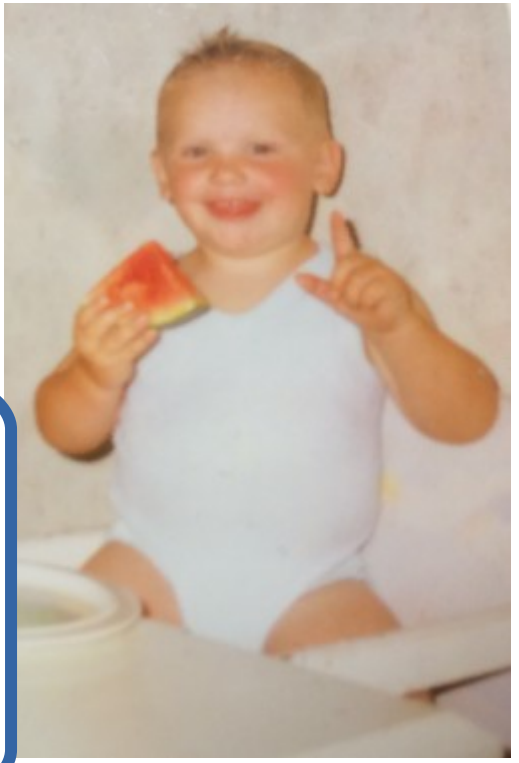
AUTOMATED DOWNLOADING!

2015



JELTE, I LEARNED HOW TO SCRAPE ARTICLES AND AM READY TO DOWNLOAD 900,000 ARTICLES FOR OUR RESEARCH

2015



THAT'S BEYOND A SCALE I EVER IMAGINED POSSIBLE!

THE DESPAIR

Chris H.J. Hartgerink's Notebook

HOME

Elsevier stopped me doing my research

92 Replies

0000-0003-1050-6809

I am a statistician interested in detecting potentially problematic research such as data fabrication, which results in unreliable findings and can harm policy-making, confound funding decisions, and hampers research progress.

Chris H.J. Hartgerink's Notebook

HOME

Wiley also stopped me doing my research

9 Replies

0000-0003-1050-6809

In November, I wrote about how Elsevier wanted me to stop downloading scientific articles for my research. Today, Wiley also ordered me to stop downloading.

900,000
BECAME
300,000

UK HAS AN EXCEPTION SINCE 2014

[F1 29A Copies for text and data analysis for non-commercial research

(1) The making of a copy of a work by a person who has lawful access to the work does not infringe copyright in the work provided that—

(a) the copy is made in order that a person who has lawful access to the work may carry out a computational analysis of anything recorded in the work for the sole purpose of research for a non-commercial purpose, and

(b) the copy is accompanied by a sufficient acknowledgement (unless this would be impossible for reasons of practicality or otherwise).

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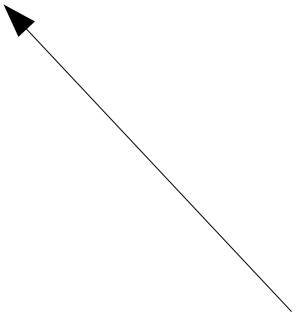

PROBLEM SOLVED?

UK HAS AN EXCEPTION SINCE 2014

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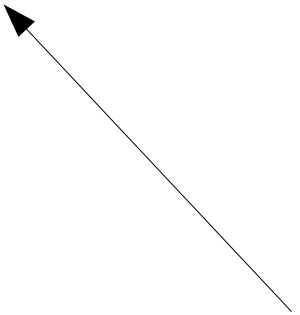

PROBLEM SOLVED?
I TRIED UK COLLABORATION
UK UNI SHUT US DOWN DESPITE EXCEPTION
(MANAGEMENT ALSO AVOIDS IMAGINED RISKS)

PUBLISHERS DON'T HATE COPYING BUT LOBBY AGAINST IT?

1. You may extract or use information contained in the Products for Educational Purposes, including, but not limited to, text and data mining, extraction and manipulation of information for the purposes of illustration, explanation, example, comment, criticism, teaching, research, or analysis.

SAGE Publishing

Springer's text- and data-mining policy

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RETURN OF THE HOPE

(THE CONDITIONAL)
RETURN OF THE HOPE

TDM NOT ONLY HAS
RESEARCH POTENTIAL

TDM CAN CREATE THE MARKET FOR INFORMATION CONSUMPTION

TDM CAN CREATE THE MARKET FOR INFORMATION CONSUMPTION

BUT ONLY WITH WIDE EXCEPTION INCLUDES COMMERCIAL USE

TDM CAN CREATE THE MARKET FOR INFORMATION CONSUMPTION

BUILDING ON FREELY AVAILABLE DATA HAS MASSIVE MARKET VALUE

REUSE OF
PUBLIC SECTOR DATA ALONE HAS
ESTIMATED MARKET CAP OF
> HALF A BILLION EUROS

WIDE EXCEPTION FOR TDM ALLOWS EU TO BECOME HUB OF TDM INNOVATION AND ECONOMIC GROWTH

BUSINESSES COULD BREAK DOWN PUBLISHING MARKET BY SHOWING THEM THE REVENUE STREAM THEY NEED

THEY KNOW THEIRS IS DISSIPATING DUE TO OPEN ACCESS

IN LONG RUN ENCOURAGES POOLING OF RESOURCES INSTEAD OF CURRENT MONOPOLIES/ISLANDS

TDM NO PROBLEM IN OPEN ACCESS

GIVES US A GLIMPSE INTO THE FUTURE

OPEN KNOWLEDGE MAPS

A visual interface to the world's scientific knowledge

BETA

VISUALIZE A RESEARCH TOPIC

Choose a library:

- PubMed (biomedicine)
- BASE (all disciplines)

european commission

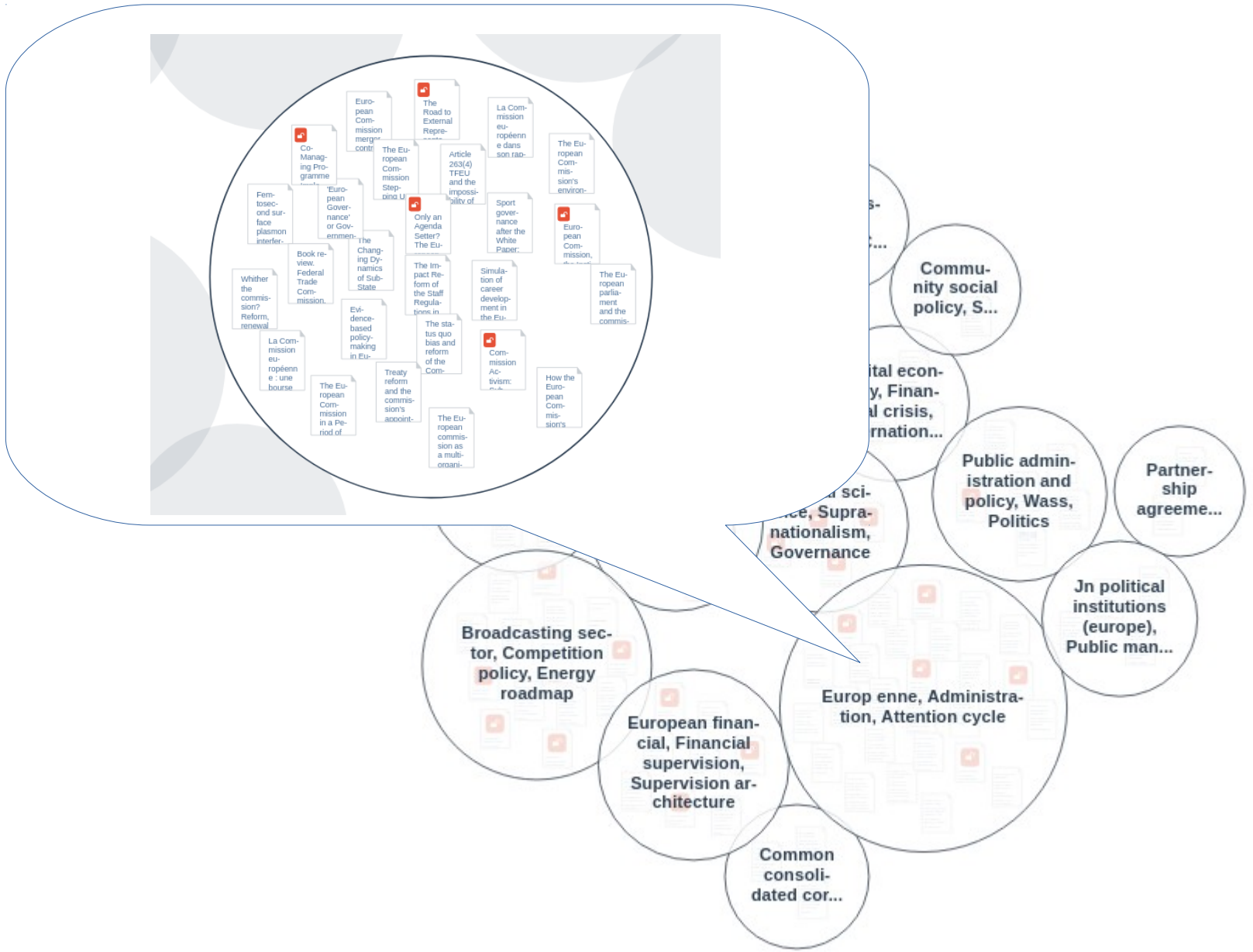
GO

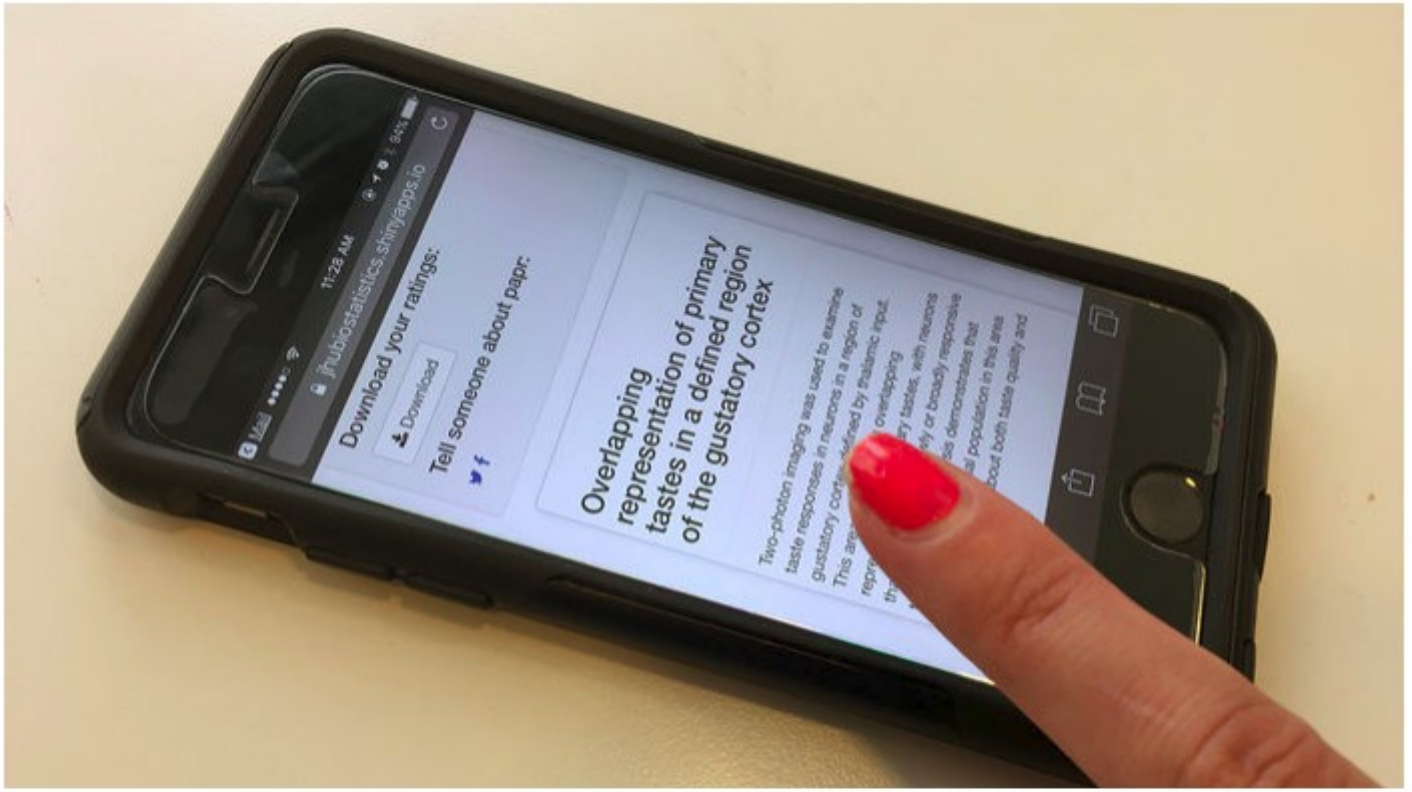
Options

OPEN KNOWLEDGE MAPS

A visual interface to the world's scientific knowledge


Commis-
sion s
public, C...
Commu-
nity social
policy, S...
Internet, Ac-
teurs, Ac-
tors
Cariforum, Dig-
ital technolo-
gies, European
integration
Digital econ-
omy, Finan-
cial crisis,
Internation...
Political space,
Political sci-
ence, Euro-
pean parlia-
ment
Consultation
civil society,
Cyprus con-
flict, Social s...
Political sci-
ence, Supra-
nationalism,
Governance
Public admin-
istration and
policy, Wass,
Politics
Partner-
ship
agreeme...
Jn political
institutions
(europe),
Public man...
Broadcasting sec-
tor, Competition
policy, Energy
roadmap
Europ enne, Administra-
tion, Attention cycle
European finan-
cial, Financial
supervision,
Supervision ar-
chitecture
Common
consoli-
dated cor...


Euro-pean Com-mission merger contr...
The Road to External Repre-sentation...
La Com-mission eu-ropéenn e dans son rap-
Co-Manag-ing Pro-gramme
The Eu-ropean Com-mission Step-ping U...
Article 263(4) TFEU and the impossi-bility of
The Eu-ropean Com-mis-sion's environ-
Fem-tosec-ond sur-face plasmon interfer-
'Euro-pean Gover-nance' or Gov-ernmen...
Only an Agenda Setter? The Eu-...
Sport gover-nance after the White Paper:
Euro-pean Com-mission, the tort...
The Chang-ing Dy-namics of Sub-State
Book re-view. Federal Trade Com-mission...
The Im-pact Re-form of the Staff Regula-tions in...
Simula-tion of career develop-ment in the Eu-...
The Eu-ropean parlia-ment and the commis-...
Whither the commis-sion? Reform, renewal
Evi-dence-based policy-making in Eu-...
The sta-tus quo bias and reform of the Com-...
La Com-mission eu-ropéenn e : une bourse
Com-mission Ac-tivism: Pub...
How the Euro-pean Com-mis-sion's
Treaty reform and the commis-sion's appoint-...
The Eu-ropean Com-mission in a Pe-riod of
The Eu-ropean commis-sion as a multi-organi-...
Commu-nity social policy, S...
ital econ-y, Finan-l crisis, rnation...
Public admin-istration and policy, Wass, Politics
Partner-ship agreeme...
sci-ce, Supra-nationalism, Governance
Jn political institutions (europe), Public man...
Broadcasting sec-tor, Competition policy, Energy roadmap
Europ enne, Administra-tion, Attention cycle
European finan-cial, Financial supervision, Supervision ar-chitecture
Common consoli-dated cor...



Papr lets you decide whether an abstract is "exciting," "boring," "probable," or "questionable." Science/AAAS

Great paper? Swipe right on the new 'Tinder for preprints' app

By **Dalmeet Singh Chawla** | Jun. 15, 2017 , 5:00 PM

Inference of cell-cell interactions from population density characteristics and cell trajectories on static and growing domains

A key feature of cell migration is how cell movement is affected by cell-cell interactions. Furthermore, many cell migratory processes such as neural crest stem cell migration [1, 2] occur on growing domains or in the presence of a chemoattractant. Therefore, it is important to study interactions between migrating cells in the context of domain growth and directed motility. Here we compare discrete and continuum models describing the spatial and temporal evolution of a cell population for different types of cell-cell interactions on static and growing domains. We suggest that cell-cell interactions can be inferred from population density characteristics in the presence of motility bias, and these population density characteristics for different cell-cell interactions are conserved on both static and growing domains. We also study the expected displacement of a tagged cell, and show that different types of cell-cell interactions can give rise to cell trajectories with different characteristics. These characteristics are conserved in the presence of domain growth, however, they are diminished in the presence of motility bias. Our results are relevant for researchers who study the existence and role of cell-cell interactions in biological systems, so far as we suggest that different types of cell-cell interactions could be identified from cell density and trajectory data.

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THANK YOU

REMINDER:
OPEN CONTENT CREATES INNOVATION

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MORE ON POTENTIAL OF INFORMATION CONSUMPTION AS ECONOMIC MARKET?
BIT.LY/TDM-FUTURE