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Home page



[Home](#) [Summary](#) [Search](#)

List of faculty members

Name	Email
AS Madhukumar	asmadhukumar@ntu.edu.sg
Aixin Sun 孙爱欣	axsun@ntu.edu.sg
Alexei Sourin	assourin@ntu.edu.sg
Anupam Chattopadhyay	anupam@ntu.edu.sg
Anwitaman Datta	anwitaman@ntu.edu.sg
Arvind Easwaran	arvinde@ntu.edu.sg
BI-FONG Lin	asflin@ntu.edu.sg
Bo An	boan@ntu.edu.sg
Boyang "Albert" Li	boyang.li@ntu.edu.sg
Bu-Sung Lee	ebslee@ntu.edu.sg
Chai Kiat Yeo	asckyeo@ntu.edu.sg


Features:

- Different tabs (Home(default), Summary and Search)
- List of faculty members(clickable links) and their email address

Individual profile page



Home Summary Search

Quick navigation 

[Biography](#) [Interests](#) [Grants](#) [Publications](#) [Statistics](#)

Boyang "Albert" Li



Useful Links:

Features:

- Quick navigation: auto scroll to dividers (Biography, Interests, Grants, Publications and Statistics) (see below)
- Includes useful links such as DR-NTU page as well as DBLP page.

Biography

Dr. Li Boyang, Albert is a Nanyang Associate Professor at the School of Computer Science and Engineering, Nanyang Technological University. Before joining SCSE, he held a visiting position at the Alibaba-NTU Singapore Joint Research Institute. Prior to that, he was a Senior Research Scientist at Baidu Research USA from 2018 to 2019, and a Research Scientist and Group Leader at Disney Research Pittsburgh from 2015 to 2017. He received his Ph.D. degree in Computer Science from Georgia Institute of Technology in 2014, and his B.Eng. degree from Nanyang Technological University in 2008. He published more than 45 peer-reviewed papers in top-tier journals and conferences, and holds two US patents. His research work has been covered by influential technology media outlets such as Engadget, TechCrunch, New Scientist, and National Public Radio.

Interests

Interests

artificial intelligence
narrative intelligence
multimodal learning
machine learning
storytelling

Grants

Current grants

Computational Narrative Intelligence
Constructing Event-level Narrative Intelligence from the Ground Up

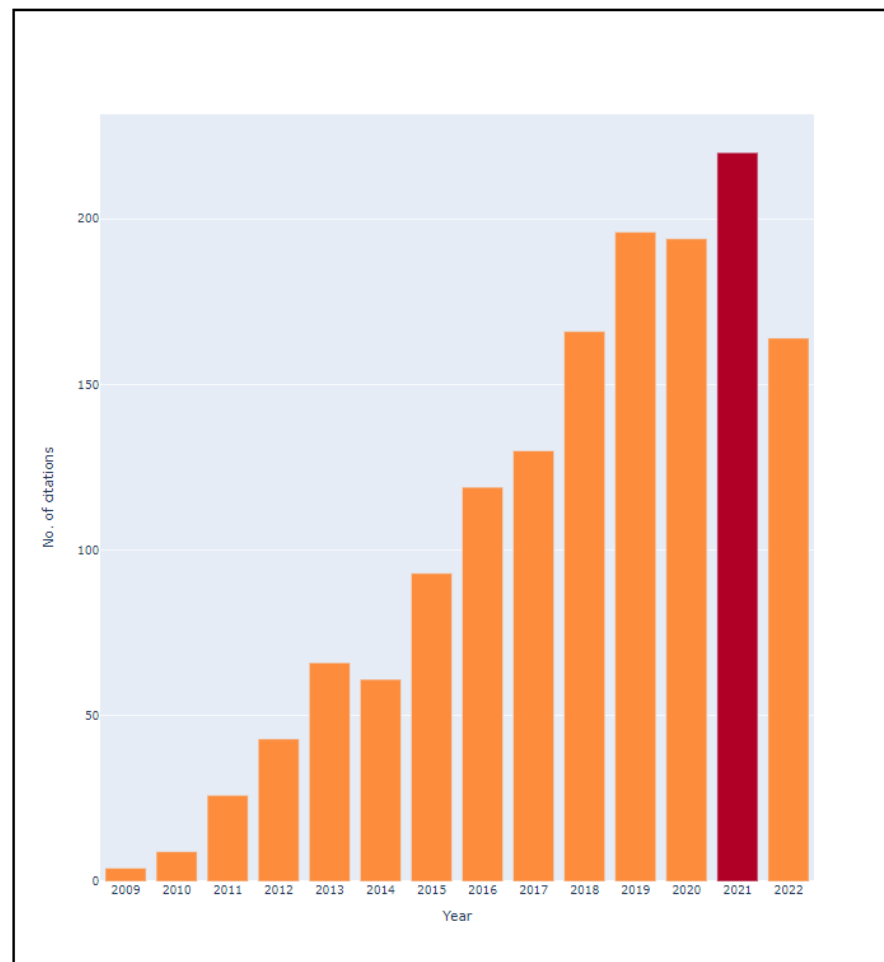
Publications

Sorted by number of citations (descending)

Publications

Publication name	Year of publish	No. citations
Story Generation with Crowdsourced Plot Graphs	2013	237
Heterogeneous knowledge transfer in video emotion recognition, attribution and summarization	2016	91
Crowdsourcing Narrative Intelligence	2012	68
An offline planning approach to game plotline adaptation	2010	65
Joint event detection and description in continuous video streams	2019	57
Video Emotion Recognition with Transferred Deep Feature Encodings	2016	54
Goal-Driven Conceptual Blending: A Computational Approach for Creativity	2012	53
Creating an immersive game world with evolutionary fuzzy cognitive maps	2009	53
Game Engine Learning from Video	2017	50
Crowdsourcing Open Interactive Narrative	2015	36

Statistics



Citations per year graph

(Smaller graph because it would not fit this paper otherwise)

Above graph is hoverable, after hover, the number of citations appears as a box next to the mouse (using plotly graphs). However it is not shown above as it can not be screen captured on Windows.

Summary

Includes

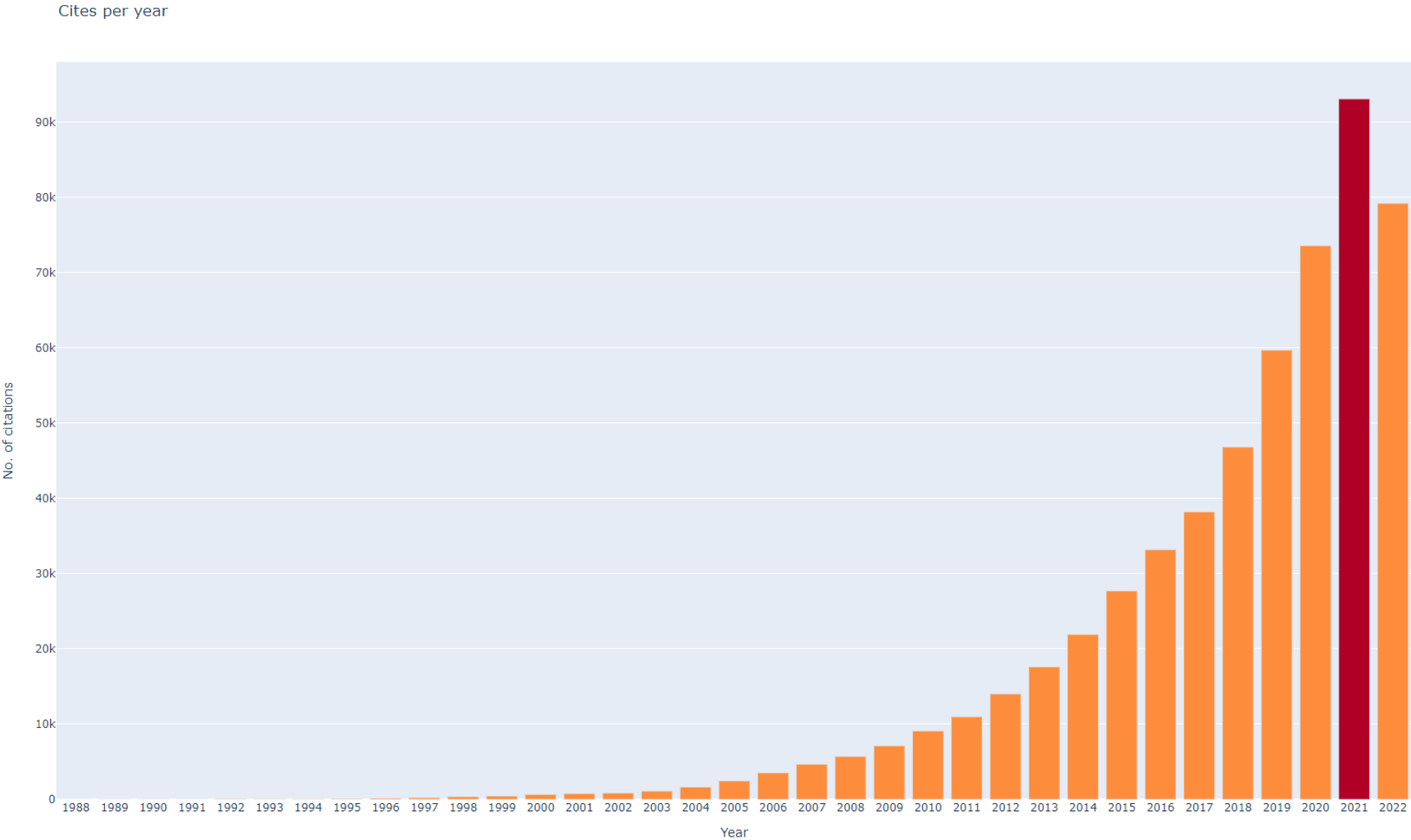
- Cites per year graph
- Tallied interest for faculty
- NTU SCSE research network
- Scatter graphs – Citations against publications scatter + Quality of paper against grants received

Features:

- Grants recommender based on interests

Cites per year graph

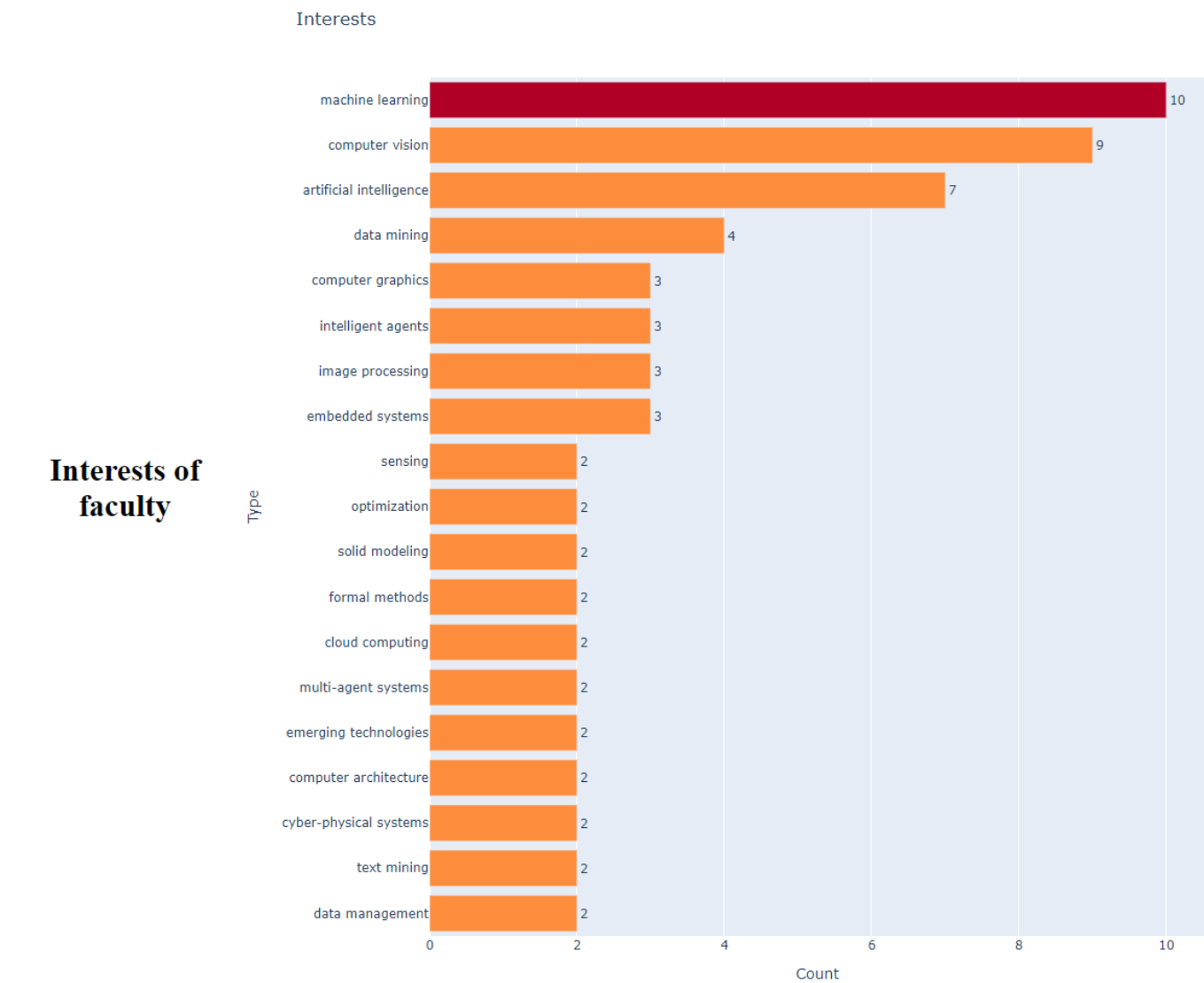
Cites per year
graph



Cites per year graph for all faculty

Also hoverable, though cannot be shown above.

Tallied interest for faculty



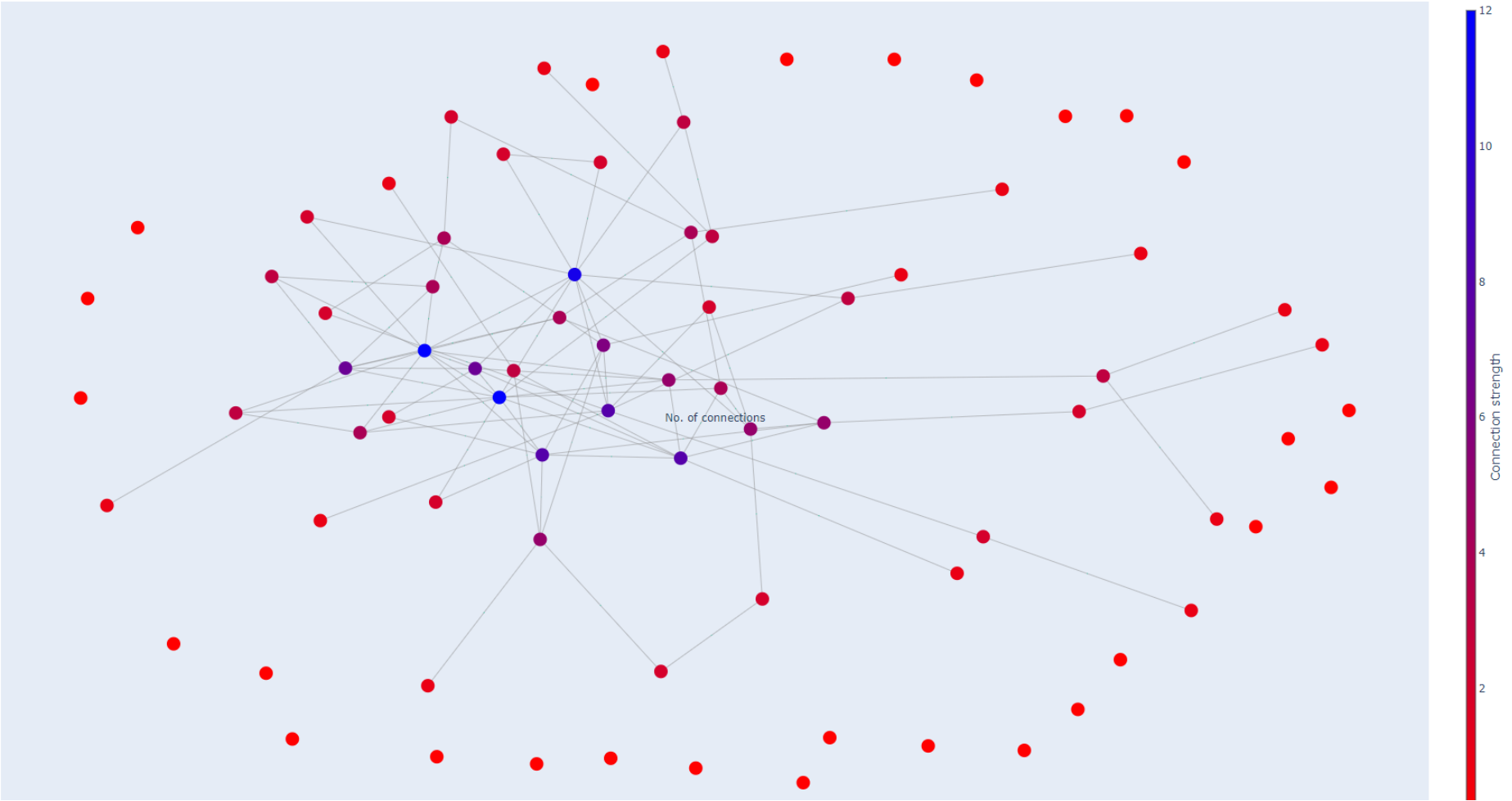
Also hoverable, with the information of the count.

NTU SCSE research network

NTU SCSE Research Network



Network graph



Features:

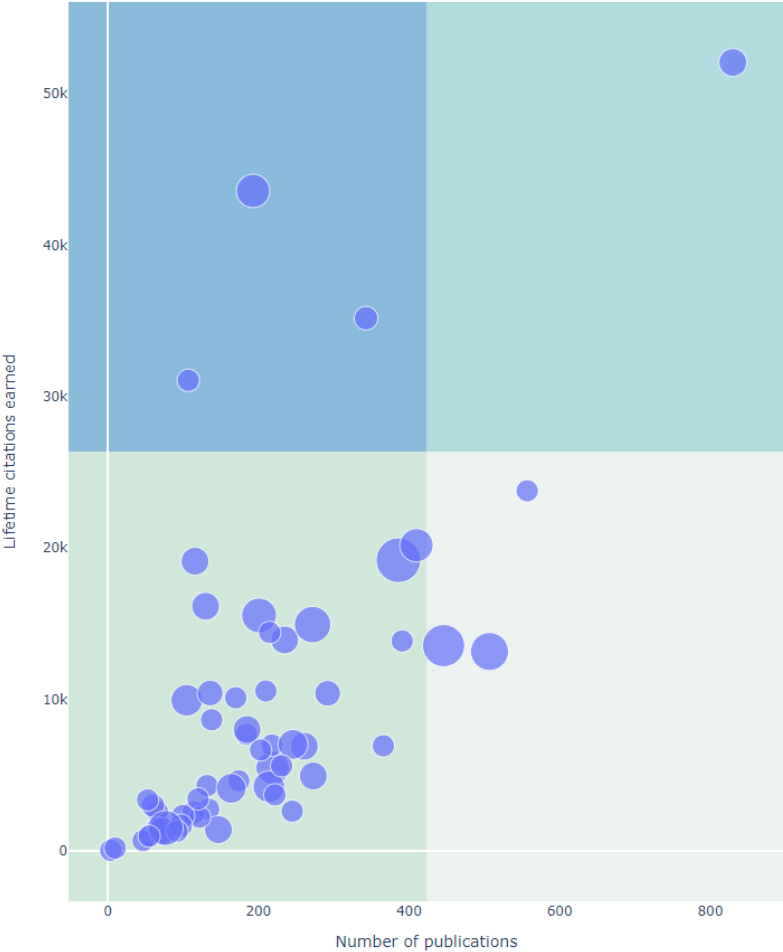
- Hoverable information

- Edge data: Names of publications co-authored
 - Node data: Names of faculty in NTU and the number of connections they have
- Coloured in by the degree centrality of the node with the legend on the sidebar.

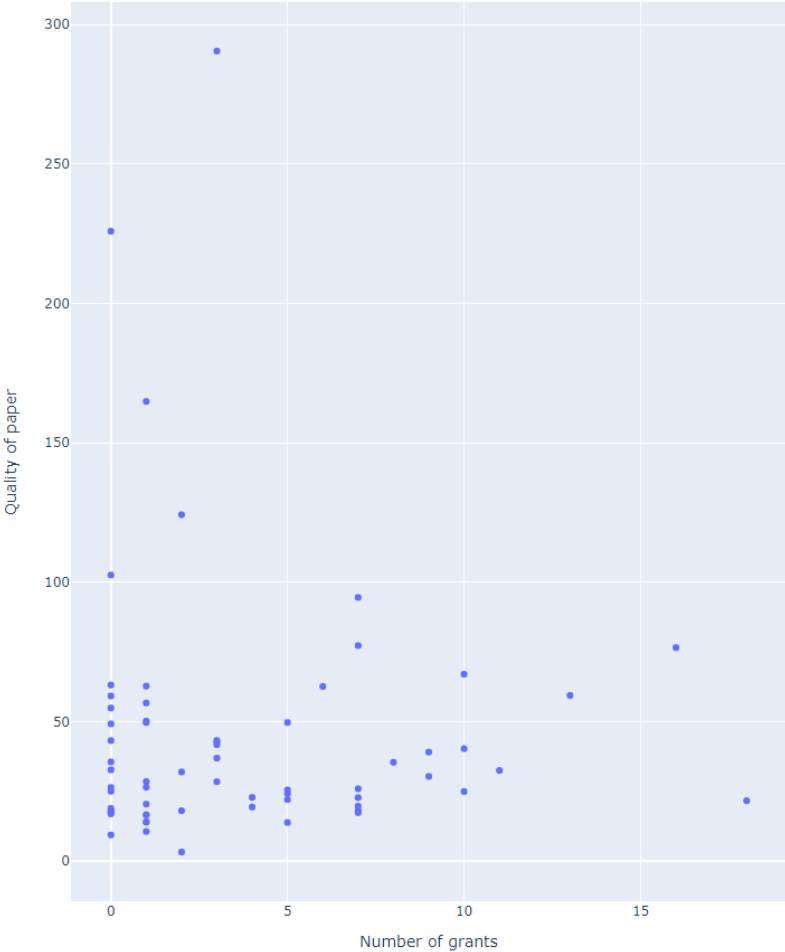
Scatter graphs

Lifetime citations of every faculty against publications

Bubble
chart



Quality of paper against grants received



Left graph shows a bubble chart of the lifetime citations of every faculty member against the number of citations they published. The data is also grouped using the different background colours for visualisation. The data points in the darkest backgrounds have low number of publications yet

high lifetime citations. While data points in the lightest background have a high number of publications but low citations. The width of the bubble is proportional to the number of grants they received. Every data point (hover) shows the faculty's name as well as the x and y data.

The graph on the right extends on the idea of using lifetime citations/number of publications = average number of citations per publications as the quality of the publications. It is correlated with the number of grants received.

Recommend grants based on interest

Please select your interest

600

800

ions

cations vs citations each mem

Recommend

Please select your interest

computational social choice

computer graphics

goal modeling

image processing

digital mental health

text mining

multimedia web system

perception-inspired signal modeling

vesicle trafficking

circuits and systems in signal processing

cybersecurity

bioinformatics

modeling and simulation

video compression

optimization

optical metrology

anomaly detection

data management

solid modeling

cps security

e represe

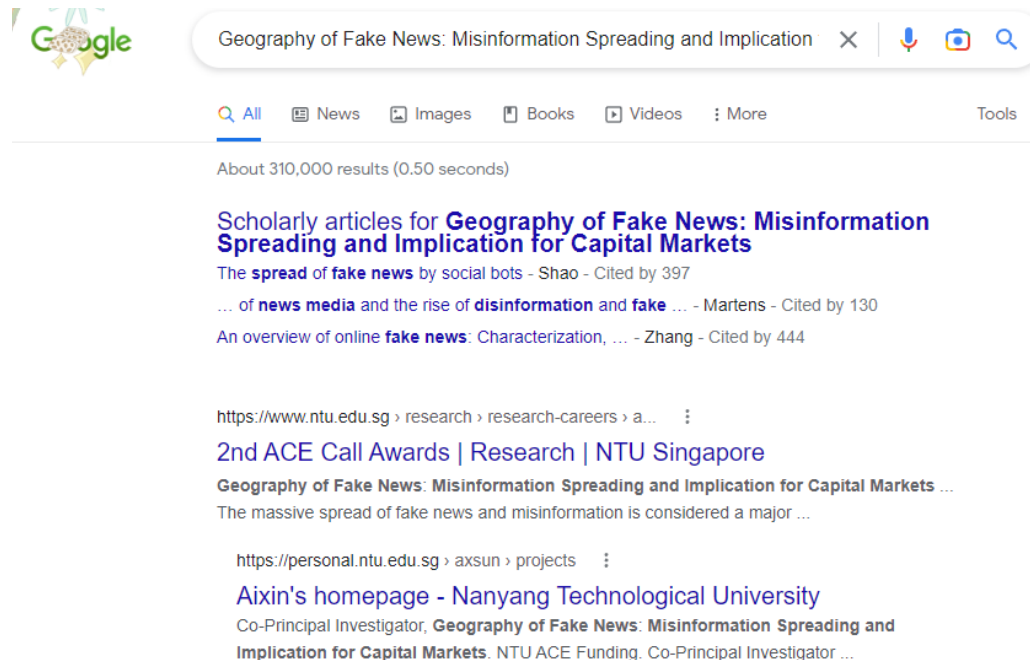

```
[
  "Geography of Fake News: Misinformation Spreading and Implication for Capital Markets",
  "K-EMERGE: Knowledge Extraction, Modelling, and Explainable Reasoning for General Expertise",
  "Vaccine communication and messaging: Addressing COVID- 19 vaccine hesitancy and promoting population acceptance"
]
```

Features:

- Dropdown menu with a list of interests to choose from
- Redirected to web page with JSON dictionary on the grants that are recommended

Algorithm to generate grants: Matches interests with faculty members who share the same interests and extract the grants they received.

Note: The grants may have been already received/on-going or even only applicable to a certain research project. Hence it is noted that it would be good to search up the grants on google beforehand.



Search

Features:

- Ability to filter by 4 categories
 - Interests
 - Grants
 - Publications
 - Citations
- Display names and links to faculty individual profiles if matched.

Algorithm:

- Repeatedly sieves through faculty's matching categories with the keyword. (case-insensitive)

Examples:



Select query

Query

Showing 2 results

You searched in Interests for blockchain

No.	Name
1	Chee Wei Tan
2	Jun Zhao

Search filter: Interests



Select query Grants

Query ntu

Search

Showing 15 results

You searched in Grants for ntu

No.	Name
1	Anupam Chattopadhyay
2	Bo An
3	Gao Cong
4	Dusit (Tao) Niyato
5	Cuntai Guan
6	Guosheng Lin

Search filter: Grants

Select query

Query

Showing 14 results

You searched in Publications for Blockchain

No.	Name
1	Anupam Chattopadhyay
2	Anwitaman Datta
3	Arvind Easwaran
4	Dusit (Tao) Niyato
5	Kwok-Yan Lam
6	Siew-Kei Lam

Search filter: Publications



Select query Citations - <year-range>/<citation-range> ▼

Query 2008-2018/>1000

Search

Showing 42 results

You searched in Citations for 2008-2018/>1000

No.	Name
1	Alexei Sourin
2	Anupam Chattopadhyay
3	Anwitaman Datta
4	Arvind Easwaran
5	AS Madhukumar
6	Bo An
7	Chee Wei Tan

Search filter: Citations

Additional Notes

Source code available at: https://drive.google.com/file/d/1cDJ_v4WcmTQyJhD-pgLiXY7cEsjpElSW/view?usp=share_link

All graphs have a colorblind friendly colour palette. Source: <https://colorbrewer2.org/#type=sequential&scheme=YlOrRd&n=4>