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Getting published and raising research visibility

Pin Pin Yeo

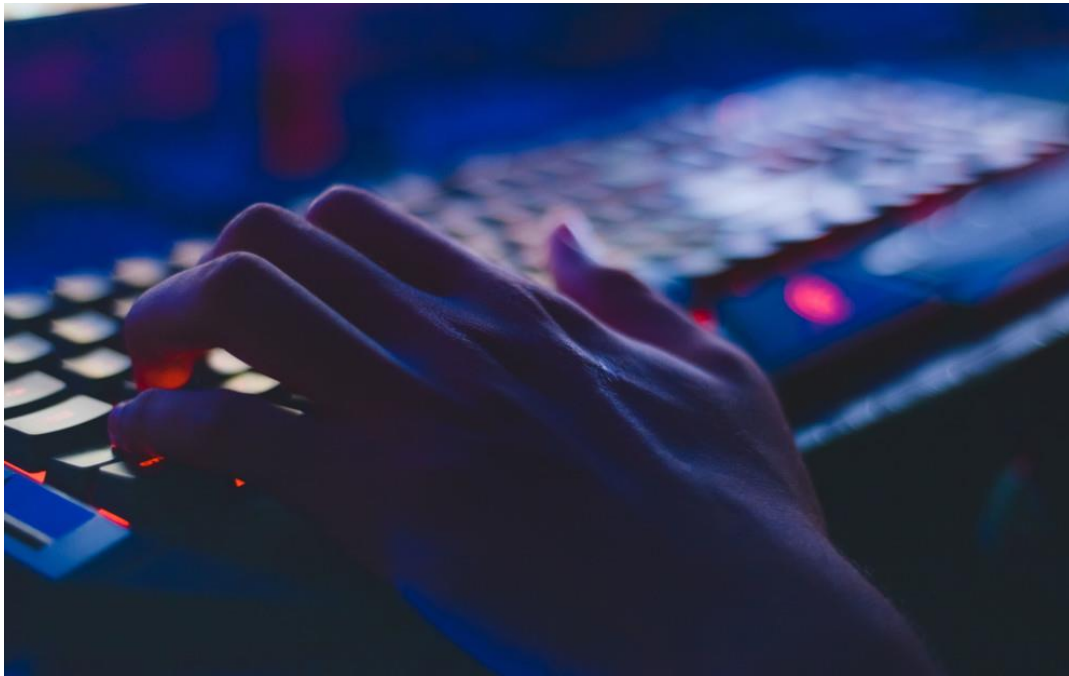
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Getting Published & Raising Research Visibility



Yeo Pin Pin

Head, Research Services
SMU Libraries

17 May 2024

Presented at Rising Scholars Conference,
Singapore, 16-17 May 2024

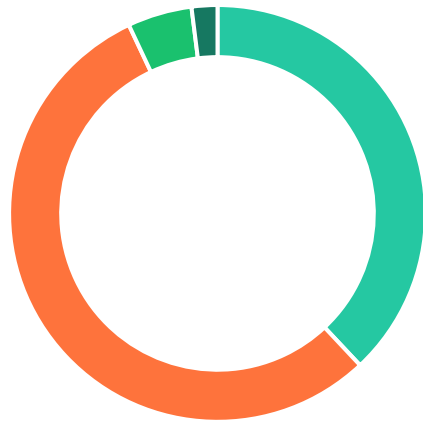
Agenda: Publishing & Research Visibility



- Publishing process
 - Determine if you have original research to write up
 - Writing your paper
 - Peer review process
 - Make your work open access – green open access
- Research visibility
 - Share your work on online platforms
 - Author profiles

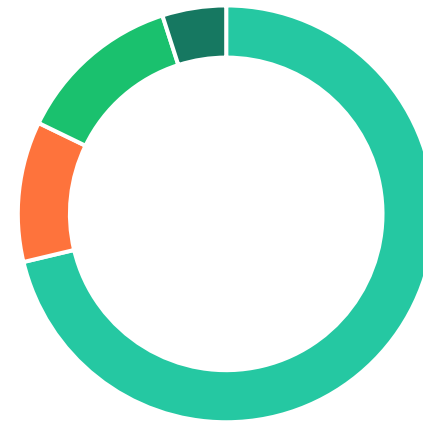
Research Outputs

COMPUTER SCIENCE



| | |
|--------------------------------|-----|
| Journal article | 38% |
| Conference proceedings article | 55% |
| Book chapter | 5% |
| Book | 2% |

BUSINESS

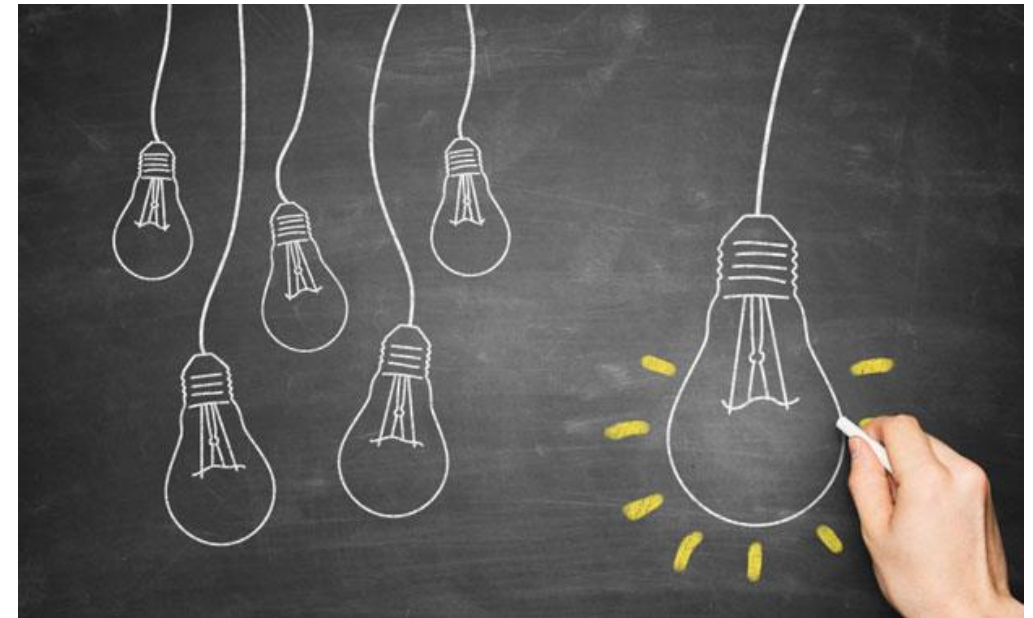


| | |
|--------------------------------|-----|
| Journal article | 71% |
| Conference proceedings article | 11% |
| Book chapter | 13% |
| Book | 5% |

Source: The rhythms of scholarly publication (2021). <https://osf.io/cwbuf/>

Original research

- Think about your current project / work
- What is new and novel
 - originality of thought
 - unique hypothesis
 - counter-intuitive outcomes / results
- How would your research add value
 - new knowledge to add to the field
- What problem does it solve
- Who would be interested
 - researchers versus practitioner



Writing your paper

- Keep it simple
- Express complicated ideas plainly
- Tell a story that is easy to follow
- Make sure your argument / key ideas are in the first paragraph and abstract
- Extensive literature review
- Figures / tables / charts to illustrate your ideas better



Paper structure (IMRad)

- Introduction
 - Question / problem
 - Thesis / hypothesis / argument
 - Roadmap / outline
- Methods / Theory
- Results
- Discussion
- Conclusion
- *Check if your target journal has a specific format and follow it*

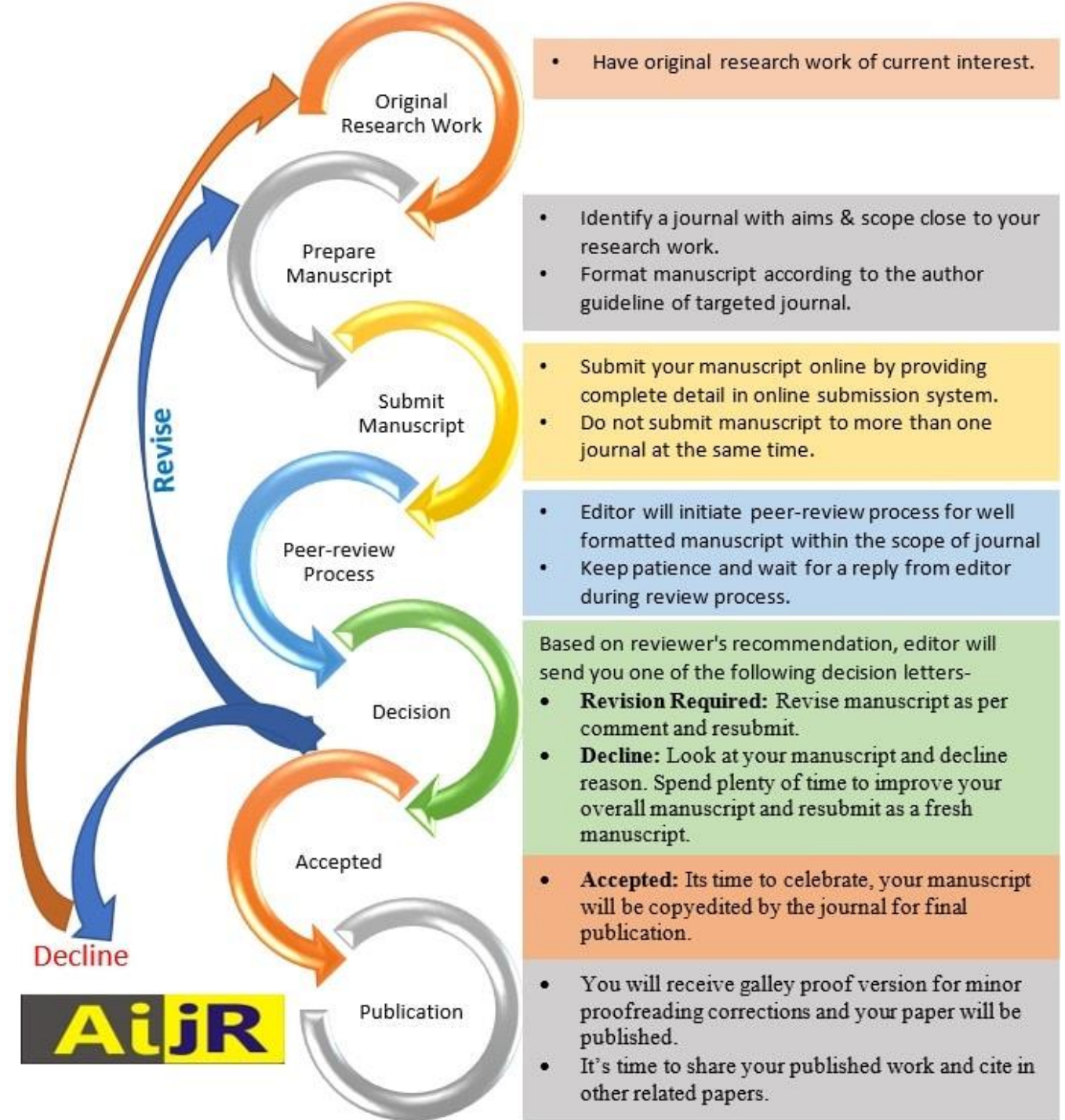


Title
Authors
Abstract
Keywords
Introduction
Methodology
Equations
Results
Discussion
Conclusion
References
Acknowledgments



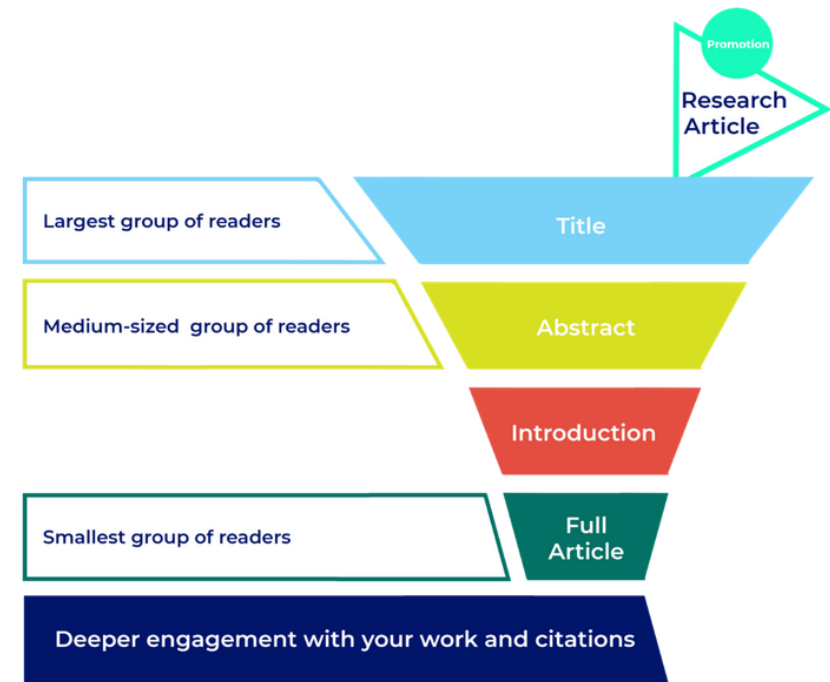
- <https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/create-the-text-of-your-article/structure-your-article/>

Publishing process



Title

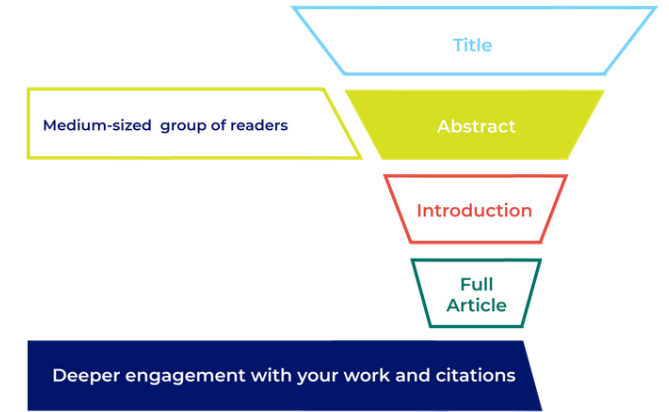
- Keep it short and to the point (< 16 words)
- Include key information about your paper
- What you discovered
- Find a way to pique your readers' interest, give them enough information to keep them reading
- Avoid cliché phrases, if using common phrase, have a more informative subtitle



Example:
Out of sight, out of mind?
How vulnerable
dependencies affect open-
source projects

Abstract

- Intended audience and frame it for them
 - Industry versus academics/researchers
- Abstracts should include the key points of research
- Include background, objective/aim, methods, results, conclusion
- Focus on important information – key results, conclusions
- Is it clear
- Is it easy to understand



General audience versus researcher

big trends

DOI:10.1145/3378422

BY MEEYOUNG CHA /KAIST, WEI GAO /SINGAPORE MANAGEMENT UNIV., AND CHENG-TE LI /NATIONAL CHENG KUNG UNIV.

Detecting Fake News in Social Media: An Asia-Pacific Perspective

IN MARCH 2011, the catastrophic accident known as “The Fukushima Daiichi nuclear disaster” took place, initiated by the Tohoku earthquake and tsunami in Japan. The only nuclear accident to receive a Level-7 classification on the International Nuclear Event Scale since the Chernobyl nuclear power plant disaster in 1986, the Fukushima event triggered global concerns and rumors regarding radiation leaks. Among the

false rumors was an image, which had been described as a map of radioactive discharge emanating into the Pacific Ocean, as illustrated in the accompanying figure. In fact, this figure, depicting the wave height of the tsunami that followed, still to this date circulates on social media with the inaccurate description.

Social media is ideal for spreading rumors, because it lacks censorship. Confirmation bias and filter-bubble effects further amplify the spread of unconfirmed information. Upon public outcry, independent fact-checking organizations have emerged globally, and many platforms are making efforts to fight against fake news. For example, the state-run *Factually* website in Singapore has been known to clarify falsehoods since its inception in May 2012, which was followed recently by the implementation of the Protection from Online Falsehoods and Manipulation Act (POFMA) in October 2019. In Taiwan, the government officially created a feature on the website of the Executive Yuan (the executive branch of Taiwan’s government) to identify erroneous reporting and combat the spread of fake news. Taiwan’s Open Culture Foundation has also developed and introduced the well-known anti-fake fact-checking chatbot *Cofacts* in May 2018. The Indonesia government since 2018 has held weekly briefings on hoax news; that same year, the country revised its Criminal Code to permit the imprisonment for up to six years of anyone spreading fake news. Governments in the Asia and Oceania region, including South Korea, Singapore, Japan, Taiwan, Philippines, Cambodia, Malaysia, have enacted relevant laws to prevent fake news from spreading.

Nonetheless, fact-checking of fake news remains daunting, and requires tremendous time and effort in terms of human investigation. Moreover, it is prone to low efficiency and inadequate coverage due to the complexity of the topics being checked, and is incapable of keeping up with the fast

2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining

Evaluating Vulnerability to Fake News in Social Networks: A Community Health Assessment Model

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Abstract—Understanding the spread of false information in social networks has gained a lot of recent attention. In this paper, we explore the role community structures play in determining how people get exposed to fake news. Inspired by approaches in epidemiology, we propose a novel *Community Health Assessment model*, whose goal is to understand the vulnerability of communities to fake news spread. We define the concepts of neighbor, boundary and core nodes of a community and propose appropriate metrics to quantify the vulnerability of nodes (individual-level) and communities (group-level) to spreading fake news. We evaluate our model on communities identified using three popular community detection algorithms for twelve real-world news spreading networks collected from Twitter. Experimental results show that the proposed metrics perform significantly better on the fake news spreading networks than on the true news, indicating that our community health assessment model is effective.

I. INTRODUCTION

Use of social media platforms like Facebook and Twitter is ubiquitous in modern times, making them powerful platforms for news propagation and consumption. However, the good inevitably is accompanied by the bad, which can be witnessed by the problem of *fake news spreading* [1]. It spreads when someone propagates it via endorsements such as replying, sharing or re-posting, without validating its authenticity. There is significant interest in understanding the nature of fake news spreading. Our focus is on *assessing the vulnerability of social networks to fake news spreading*. Specifically, we focus on people and the communities they create, with the goal of identifying how vulnerable individuals and communities are to believing and propagating fake news. We propose the Community Health Assessment model that distinguishes between neighbor, boundary and core nodes of a community, and propose novel metrics to quantify the vulnerability of an individual node, as well as the community, to external exposure. We propose methods to estimate the likelihood of a boundary node of a community to believe fake news sent from its immediate neighbors; and also estimate the likelihood

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<http://dx.doi.org/10.1145/3341161.3342920>

of a community’s entire boundary node set to believe fake news coming from its neighborhood. It is important to note that the method used to quantify vulnerability of a boundary node can be generalized to any node. Intuitively, if an external node infects a member of a community, the likelihood of the entire community getting infected increases due to high connectivity and trust among its members. Thus, while assessing vulnerability of community, we focus on examining the influence of news propagated from external nodes into the community rather than considering the propagation of the news within the community. We evaluate our model on the propagation networks of twelve real-world news collected from snopes.com¹.

Our contributions are summarized as follows:

- We propose the Community Health Assessment model that introduces the ideas of neighbor, boundary and core nodes for a community structure in a social network.
- We propose metrics to quantify the vulnerability of a node and a community to fake news exposure from outside.
- Using Twitter news item spreading network (a subgraph of Twitter network induced by the news item, *news network* in short) we demonstrate that our proposed metrics can assess the vulnerability of social networks to fake news better than for true news.

II. RELATED WORK

There has been a recent surge in interest among researchers and practitioners to develop approaches to prevent fake news spread. Most approaches in the literature use content-based [2], [3] and propagation-based characteristics [4], [5]. Approaches using neural networks [6], [7] have also shown promising results. Infection spread models inspired from epidemiology [8], [9] have also been used to model rumor spreading. Other models have tried to identify the rumor spreading source [10], [11]. A community perspective to rumor spread has also been attempted. Fan et al. [12] proposed an approach to identify a minimal set of boundary nodes that would prevent spread of rumors from neighboring communities. Nguyen et al. [13] proposed a community-based heuristic method to find the smallest set of highly influential nodes whose decontamination with good information would contain rumor spreading. Vosoughi

¹<https://www.snopes.com/fact-check-ratings/>

General audience versus researcher - 2

Detecting fake news in social media - Abstract: In March 2011, the catastrophic accident known as "The Fukushima Daiichi nuclear disaster" took place, initiated by the Tohoku earthquake and tsunami in Japan. The only nuclear accident to receive a Level-7 classification on the International Nuclear Event Scale since the Chernobyl nuclear power plant disaster in 1986, the Fukushima event triggered global concerns and rumors regarding radiation leaks. Among the false rumors was an image, which had been described as a map of radioactive discharge emanating into the Pacific Ocean, as illustrated in the accompanying figure. In fact, this figure, depicting the wave height of the tsunami that followed, still to this date circulates on social media with the inaccurate description. Social media is ideal for spreading rumors, because it lacks censorship. Confirmation bias and filter-bubble effects further amplify the spread of unconfirmed information. Upon public outcry, independent fact-checking organizations have emerged globally, and many platforms are making efforts to fight against fake news.

Evaluating vulnerability to fake news in social networks - Abstract: Understanding the spread of false information in social networks has gained a lot of recent attention. In this paper, we explore the role community structures play in determining how people get exposed to fake news. Inspired by approaches in epidemiology, we propose a novel *Community Health Assessment model*, whose goal is to understand the vulnerability of communities to fake news spread. We define the concepts of neighbor, boundary and core nodes of a community and propose appropriate metrics to quantify the vulnerability of nodes (individual-level) and communities (group-level) to spreading fake news. We evaluate our model on communities identified using three popular community detection algorithms for twelve real-world news spreading networks collected from Twitter. Experimental results show that the proposed metrics perform significantly better on the fake news spreading networks than on the true news, indicating that our community health assessment model is effective.

General audience versus researcher - 3

Detecting fake news in social media - Conclusion: The fake news phenomenon is taking new turns. YouTube and instant messaging (IM) services (for example, Whatsapp, Kakaotalk) are emerging as hotbeds of fake news. According to a survey conducted by the Korea Press Foundation, 34% of Korean YouTube viewers report having watched or received videos containing fake news. Taiwan's Open Government Foundation gov reported that in 2017 only 46% of chatbot responses on that nation's most popular IM app LINE is correct. Fake news on streaming platforms and IM services is particularly concerning because it contains visual content, which is more persuasive than mere text posts. Also, IM may reinforce the credibility of fake claims because people are more likely to follow trusted social contacts blindly. ... Consequently, the task of detecting fake news in the era of big data, social media, and artificial intelligence calls for greater attention from the research community.

Evaluating vulnerability to fake news in social networks - Conclusion: We propose novel metrics based on the concept of believability derived from computational trust measures to compute vulnerability of nodes and communities to news spread and show that the metrics are much more sensitive to fake news than true news. This confirms our hypothesis that fake news have to rely on strong trust among spreaders to propagate while true news do not. Through experiments on large news spread networks on Twitter we show that our proposed metrics can identify the vulnerable nodes for false news networks with higher precision.

Keywords

- Flags in searches by end users
- Think about keywords and phrases that describe your work
- Add some synonyms
- Use phrases when appropriate
- Test in Google / Google Scholar – does it bring back the results you expect

Keywords Example 1

- Higher well-being individuals are more receptive to cultivated meat: An investigation of their reasoning for consuming cultivated meat
- **Keywords:** Cultivated meat, Psychological well-being, Consumer acceptance, Climate change
- **Abstract:** It is evident that over-consumption of meat can contribute to the emission of hazardous greenhouse gases. One viable way to address such climate impact is to make people become more aware of more sustainable diet options, such as cultivated meat. However, it is challenging to instigate change in people's meat-eating habit, and empirical works have been examining the psychological factors that are related to consumers' willingness to consume cultivated meat. Research has suggested that psychological well-being can play a role in the meaning-making of food consumption, with higher well-being individuals showing more recognition of other sociocultural benefits of consuming food beyond just fulfilling their sustenance needs. As existing works have yet to understand the link between well-being and consumption of novel foods, the current research set out to fill this gap by examining the relationship between people's psychological well-being and their willingness to consume cultivated meat via different reasons (mediators) for consuming cultivated meat ...

Keywords Example 2

Information trust and COVID-19 vaccine hesitancy amongst middle-aged and older adults in Singapore: A latent class analysis approach

Keywords: Social media use, health literacy, support, communications, attitudes, barriers

Abstract: Rationale: COVID-19 vaccine hesitancy presents significant challenges for public health. Objective: Vaccine hesitancy among middle-aged and older adults has been a significant barrier in Singapore's battle against COVID-19. We hypothesize that the trust middle-aged and older adults place in various sources of information influences vaccine hesitancy, and that distinct typologies of trust can be identified to better inform targeted health communication efforts. Method: Data from a nationally representative panel survey of Singaporeans aged 56-75 (N =6094) was utilized. Modules fielded in August and November 2020, and June 2021 were analyzed, assessing social networks, trust in sources of information, and vaccination status respectively. Predictors of vaccination status were first examined. Latent class analysis was then used to identify typologies of trust in various sources of information. Results: Trust in formal sources of information (e.g government sources) is found to predict vaccination status among respondents. Contrary to expectations, trust in social media and informal sources (family and friends), and perceived social support did not predict vaccination status. Latent class analysis identified 4 typologies of respondents based on their patterns of trust in these sources. Significantly, it is found that a portion of respondents with low trust in formal sources of information have high trust in informal sources...

Keywords Example 3

Security and privacy in smart health: Efficient policy-hiding attribute-based access control

Keywords: Attribute-based encryption (ABE), decryption test, full security, large universe; privacy protection, smart health (s-health)

Abstract: With the rapid development of the Internet of Things and cloud computing technologies, smart health (s-health) is expected to significantly improve the quality of health care. However, data security and user privacy concerns in s-health have not been adequately addressed. As a well-received solution to realize fine-grained access control, ciphertext-policy attributebased encryption (CP-ABE) has the potential to ensure data security in s-health. Nevertheless, direct adoption of the traditional CP-ABE in s-health suffers two flaws. For one thing, access policies are in cleartext form and reveal sensitive health-related information in the encrypted s-health records (SHRs). For another, it usually supports small attribute universe, which places an undesirable limitation on practical deployments of CP-ABE because the size of its public parameters grows linearly with the size of the universe. To address these problems, we introduce PASH, a privacy-aware s-health access control system, in which the key ingredient is a large universe CP-ABE with access policies partially hidden. ...

Which journal / conference ?

- Look at your References, see if there are possible venues
- If you are citing them in your paper, they are likely to focus on same areas
- Check Journal Citation Report for impact factors, CiteScore in Scopus, as they identify journals with high average citations
- Ask your supervisor for advice

Conference recommender

- Scimago

<https://www.scimagojr.com/journalrank.php?type=p&order=sjr&ord=desc>

- Guide2Research

<https://www.guide2research.com/conferences/>

- CORE Conference Portal

<http://portal.core.edu.au/conf-ranks/>



Think. Check. Attend <https://thinkcheckattend.org/>

Journal recommenders

- IEEE Publication Recommender <https://publication-recommender.ieee.org/periodicals>
- Elsevier Journal Finder <https://journalfinder.elsevier.com/>
- Springer Journal Suggestor <https://journalsuggester.springer.com/>
- Master Journal List (Clarivate) <https://mjl.clarivate.com/home>
- JANE: Journal/Author Name Estimator <https://jane.biosemantics.org/>
- JournalGuide <https://www.journalguide.com/>

Journal requirements

- Is there a **template**
- Are there page limits
- Which style to use for references
- Check the journal website
- Look at the articles published in the journal



Choose the right journal or publisher for your research

What is peer review?

- Peer review is designed to assess the validity, quality and often the originality of articles for publication
- Purpose is to maintain the integrity of science by filtering out invalid or poor quality articles
- Running articles through the process of peer review adds value to them and improves the article
- Not perfect – some articles still contain inaccuracies – after all peer review is a human activity
- [Video: https://www.wiley.com/network/researchers/peer-review-week-2020/wiley-peer-review-part-1](https://www.wiley.com/network/researchers/peer-review-week-2020/wiley-peer-review-part-1)

Peer review process



Types of peer review

| | |
|-------------------------|---|
| Single blind | Author does not know the identity of the reviewer |
| Double blind | Reviewer does not know the identity of the author, and vice-versa |
| Open peer review | The identity of the author and the reviewer is known by all participants, during or after the review process – some reviewers even make their comments open to others |

Outcomes of peer review

- Accept
- Accept after minor revisions
- Accept after major revisions
- Reject



Questions reviewers ask

- Does the paper fit the standards and scope of the journal it is being considered for?
- Is the research question clear?
- Was the approach appropriate?
- Is the study design, methods and analysis appropriate to the question being studied?
- Is the study innovative or original?
- Does the study challenge existing paradigms or add to existing knowledge?
Does it develop novel concepts?
- Are the methods described clearly enough for other researchers to replicate?
- Are the methods of statistical analysis and level of significance appropriate?
- Could presentation of the results be improved and do they answer the question?
- Are the conclusions appropriate?
- If humans, human tissues or animals are involved, was ethics approval gained and was the study ethical?

If your paper is rejected

- View the rejection as a form of feedback
 - Take the time and the space to improve your work
 - Check if feedback from the reviewers were included and learn from it
 - Pull apart your paper and re-write your paper
 - Consider submitting to another journal
-
- Source: Leglu, C. (2022, May). What to do when an academic journal rejects your article. *The Times Higher Education*.
URL: <https://www.timeshighereducation.com/campus/what-do-when-academic-journal-rejects-your-article>

Responding to reviewer comments

- Read the comments carefully
- Make a list of all the comments with a column to indicate how it was corrected
- Tackle the minor ones first (e.g. spelling mistakes, grammatical errors, inconsistencies)
- Next tackle the major ones – answer politely, completely and with evidence

Open peer review

The authors propose a model-based indoor positioning system (IPS), that employs a small amount of data-sampling from a large-scale scenario, using dynamic parameters (obtained from the data-sampling), and an automatic selection of access points.

The article is clearly written, with some minor issues that need to be acknowledged:

- The error of the proposed system is around 3 m., however, the authors mentioned in Section 2 (Related Work) that the classic RADAR system "resulted in an accuracy of 2 to 3m." The authors need to clarify why is this system not evaluated, and to contextualize the reader of the error of the proposed system, which seemingly is not outperforming RADAR.
- The paragraph in lines 308-314 should be located at the end of Section 3.1, since it provides important details of data gathering.
- Practicality seems to be an important contribution of the proposed system, since, as the authors state that they "only needed to collect some samples from 15 different locations to generate our model. This can be done in fewer than 15 minutes". While this reviewer does not doubt that this process only took 15 minutes, it seems misleading to state that samples were collected from only from 15 different locations, since in Section 4.1 (lines 299-300) the authors state that they "gathered 100 packet samples from evenly-spaced, 2m apart locations, to a total of 150 different test points". This should be clarified
- Small typo in line 362: "we decided to use the Δ value has a filter" -> "we decided to use the Δ value as a filter"

INCREMENTAL



DETAILS



Tweet

PUBLISHED IN



Sensors

REVIEWED BY



Caleb Rascon

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 - Aim to retain rights to pre-print and author-final version

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The screenshot displays a web page for an IEEE paper titled "Security and Privacy Attribute-Based Access Control". The page includes a "Purchase" modal window and a yellow "Access to this document requires a subscription" message.

Modal Window:

| Format | Member | Non-Member |
|----------|---------|------------|
| PDF/HTML | \$14.95 | \$33.00 |

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Open access publishing

- Green open access – free by making an earlier version of the article available on an open access repository e.g. InK, arXIV.org, SSRN – author-final version (post-print), submitted version (pre-print) – some publishers impose embargo period 12-24 months

Visual Analysis of Discrimination in Machine Learning

Qianwen Wang, Zhenhua Xu, Zhutian Chen, Yong Wang, Shixia Liu, and Huamin Qu

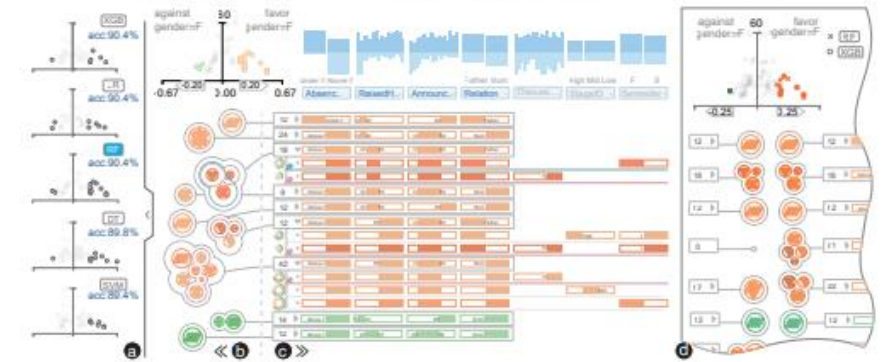


Fig. 1. DiscriLens facilitates a better understanding and analysis of algorithmic discrimination: (a) scatter plots offer an overview of the discriminatory itemsets; (b) RippleSets reveal the intersections among these itemsets; (c) the attribute matrix represents the details of each discriminatory itemset; (d) the comparison mode enables users to compare two models side by side.

Abstract—The growing use of automated decision-making in critical applications, such as crime prediction and college admission, has raised questions about fairness in machine learning. How can we decide whether different treatments are reasonable or discriminatory? In this paper, we investigate discrimination in machine learning from a visual analytics perspective and propose an interactive visualization tool, DiscriLens, to support a more comprehensive analysis. To reveal detailed information on algorithmic discrimination, DiscriLens identifies a collection of potentially discriminatory itemsets based on causal modeling and classification rules mining. By combining an extended Euler diagram with a matrix-based visualization, we develop a novel set visualization to facilitate the exploration and interpretation of discriminatory itemsets. A user study shows that users can interpret the visually encoded information in DiscriLens quickly and accurately. Use cases demonstrate that DiscriLens provides informative guidance in understanding and reducing algorithmic discrimination.

Index Terms—Machine Learning, Discrimination, Data Visualization.

1 INTRODUCTION

Machine learning (ML) has progressed dramatically in recent decades and become a useful technique in a variety of applications, including credit scoring [31], crime prediction [20], and college admission [50]. Since decision-making in these areas may have ethical or legal issues [14, 46], it is crucial for model users to go beyond model accuracy and consider the fairness of ML models.

Consider the following scenario. When reviewing loan applications, loan officers need to estimate the risk of default (*i.e.*, the probability of failing to repay the loans), which is usually time-consuming and error-prone. A machine learning model trained on historical credit data can estimate the creditworthiness of applicants and thus facilitate the decision-making. However, this model can unintentionally make

discriminatory predictions in the social sense, even though the training data describes objective facts and includes no human discrimination. For example, this model may treat two applicants unequally based on gender despite their same repayment capacity. To avoid making decisions based on protected attributes (attributes such as gender and race that are legally protected by laws [46, 58]), a straightforward method is to hide these attributes. But this method not only decreases the model accuracy but has also been proven ineffective since models are able to learn protected attributes from other non-protected attributes (*e.g.*, predict gender based on address and occupation) [21, 49, 67].

To further promote the adoption of ML models and prevent potential negative social impacts, discrimination in ML is drawing increasing research attention. Many methods have been proposed to assess and mitigate discrimination from three main aspects: pre-process methods that investigate the discrimination in training data [27, 35, 63], in-process methods that adjust the model learning process [29, 41, 62], and post-process methods that modify the discriminatory model predictions [23, 65]. However, these studies usually formalize discrimination as summary statistics and may hinder a detailed assessment. Meanwhile, these studies simply assume that the representation of discrimination has been clearly defined, which usually does not hold in practice [23, 48]. Due to the complex nature of discrimination, it has no clear and uniform definition and its representation varies a lot in different domains. In this study, we develop a visual analysis tool that enables the involvement of domain knowledge and supports a systematical

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• Shixia Liu is with Tsinghua University. E-mail: shixia_lu@tsinghua.edu.cn.

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Privacy preserving search services against online attack

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³State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences, Beijing 100043, China
⁴Department of Computer Science, Fujian Normal University, China
⁵Department of Computer Science, Singapore Management University, Singapore
⁶Department of Computer Science, University of Surrey, UK

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Abstract Searchable functionality is provided in many online services such as mail services or e-commerce sites. To protect sensitive data, these services usually need after being encrypted using searchable encryption. This enables the servers to correctly search encrypted data from a remote server without learning data and user information. However, the encryption can be broken due to the weakness of encryption algorithms. In this paper, we propose a privacy preserving searchable functionality for applications such as encrypted email systems. Moreover, it has an inherent confidentiality that the information of a query can be hidden using a keyword generating attack. Most of existing works aim to make the system resistant to offline keyword guessing, but this does not protect against online attacks on real-world services. In this paper, we focus on how to prevent a powerful adversary able to issue online keyword guessing attack using a server-assisted model. Specifically, we design a novel primitive \mathcal{C} to realize all basic online keyword guessing attacks that are general enough to break existing state-of-the-art encryption. This primitive can be seen as an access control on encryption ability. Combining searchable encryption with the new primitive enables keyword guessing attack resistance for the specified case, even if the attack is heuristic attack. We further give formal security analysis for the proposed framework, and a heuristic implementation with efficiency analysis to show that our design is practical.

Keywords Keyword search, Encrypted data, Security, Online keyword guessing attack

1. Introduction

Searchable functionality is popular in many online services like email systems and data storage. One can search his email box with this to find the emails he interested in the data. He can also search his records to find out those goods with names which contain the keywords in online shopping. Moreover, according to the search history of an online decision tree to determine the search history of a user's decision tree in a distributed way, the ability of online search. In practice, some cryptographic tools are used for the protection of sensitive data, like encrypted email systems.

Encrypted technologies (e.g., fully homomorphic encryption [FHE], fully homomorphic encryption [FHE], fully homomorphic encryption [FHE]) have been widely applied in real-world applications, such as Prochad and SecureShare. To protect the confidentiality of sensitive data, however, the encryption may prevent further operations

over encrypted data. For instance, making use of FHE to encrypt emails may further slow the decryption to a certain extent that makes users lose their patience to a significant extent. Thus, the encryption cannot be used to protect sensitive data. One solution is to provide clients to share sensitive keys with servers, so that servers can then decrypt and further search over their data. This, however, may violate the privacy of clients and further lead to user leakage. Another solution could be the client-side encryption of encrypted results to third and further fully homomorphic search over decryption. Although hiding or encrypt information to server, the servers may still have backdoor and compromised one.

arXiv:2007.15182v1 [cs.LG] 30 Jul 2020

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Distributed Similarity Queries in Metric Spaces

Keyu Yang¹ · Xin Ding¹ · Yuanliang Zhang¹ · Lu Chen² · Baihua Zheng³ · Yunjun Gao⁴

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Abstract
 Similarity queries, including range queries and k nearest neighbor (kNN) queries, in metric spaces have applications in many areas such as multimedia retrieval, computational biology and location-based services. With the growing volumes of data, a distributed method is required. In this paper, we propose an Asynchronous Metric Distributed System (AMDS), to support efficient metric similarity queries in the distributed environment. AMDS uniformly partitions the data with the pivot-mapping technique to ensure the load balancing, and employs publish/subscribe communication model to asynchronous process large scale of queries. The employment of asynchronous processing model also improves robustness and efficiency of AMDS. In addition, we develop efficient similarity search algorithms using AMDS. Extensive experiments using real and synthetic data demonstrate the performance of metric similarity queries using AMDS. Moreover, the AMDS scales sublinearly with the growing data size.

Keywords Similarity query · Range query · kNN query · Metric space · Distributed processing · Algorithm

1 Introduction

Similarity queries in metric spaces find objects similar to a given query object under a certain criterion. This functionality has been widely used in real-life applications. This is

because metric spaces can support various data types (e.g., images, words, DNA sequences) and flexible distance metrics (e.g., L_p norm distance, edit distance). Here, we give two representative examples below.

Application 1 (Multimedia Retrieval) In an image retrieval system, the similarity between images can be measured using L_p norm metric, earth mover's distance or other distance metrics between their corresponding feature vectors. Here, similarity queries in metric space can help users find similar images for a given one.

Application 2 (Natural Language Processing) In the WordNet, a knowledge graph for better nature language understanding, the similarity between two words could be measured by the shortest path, maximum flow or other distance

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Privacy preserving search services against online attack

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ABSTRACT
 Searchable functionality is provided in many online services such as mail servers or outsourced data storage. To protect users' privacy, data in these services is usually stored after being encrypted using searchable encryption. This enables the data user to securely search encrypted data from a remote server without leaking data and query information. Public key encryption with keyword search is one of the research branches of searchable encryption; this provides privacy-preserving searchable functionality for applications such as encrypted email systems. However, it has an inherent vulnerability in that the information of a query may be leaked using a keyword guessing attack. Most of existing works aim to make the system resistant to offline keyword guessing, but this does not protect against online attacks on real world services. In this paper, we move a step forward to present a generic framework able to resist online keyword guessing attack using a server-assisted model. Specifically, we design a novel primitive \mathcal{C} , named all-but-one lossy encryption, which can prevent a specific user from generating valid encryptions. This primitive can be seen as an access control on encryption ability. Combining searchable encryption technique with the new primitive makes online keyword passing attack impossible for the specified user, even if the attack is launched online. We further give formal security analysis for the generic framework, and a concrete implementation with efficiency analysis to show that our design is practical.

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1. Introduction

Searchable functionality is popular in many online services like email system and data storage. One can search his email box with date to find the emails he received at the date. Or one can also use keywords to find out those goods with names which contain the keywords in online shopping. However, searching by keywords makes a threat to user's privacy. For example, attackers can use data mining technology to analyse the search history of an online merchant user to determine his hobby or income range. So in practice, some cryptographic tools are used in the protocol to protect privacy, like encrypted email systems.

Encryption technologies (e.g., AES/Advanced Encryption Standard), DES

(Data Encryption Standard), RSA (Rivest et al., 1978) have been widely employed in real-world applications, such as ProtonMail¹ and Spiderhole², to protect the confidentiality of client data. However, the encryption may prevent further operations over encrypted data. For instance, making use of RSA to encrypt emails and further store the encryptions to a remote server that makes search over data somewhat impossible on server side. This is because server may not be shared decryption rights by clients. There are some naive approaches to enable server to search over encrypted emails. One solution is to persuade clients to share secret keys with server, so that server can first decrypt and further search over plain data. This, however, may infringe the privacy of clients and meanwhile, it may not be necessary for clients to share fully trust with server. Another solution could be that clients download all encrypted emails to local and further limit throughout search over decryption. Although leaking email information to server, this solution may yield heavy bandwidth and computational cost

¹ <https://protonmail.com>

² <https://spiderhole.com>

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Commanding and Re-Dictation: Developing Eyes-Free Voice-Based Interaction for Editing Dictated Text

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 CAN LIU, School of Creative Media, City University of Hong Kong
 SHENGDONG ZHAO, School of Computing, National University of Singapore
 KOTARO HARA, School of Information Systems, Singapore Management University

Existing voice-based interfaces have limited support for text editing, especially when *seeing* the text is difficult, e.g., while walking or cooking. This research develops voice interaction techniques for eyes-free text editing. First, with a Wizard-of-Oz study, we identified two primary user strategies: using commands, e.g., "REPLACE go with goes" and re-dictating over an erroneous portion, e.g., correcting "he go there" by saying "he goes there." To support these user strategies with an actual system implementation, we developed two eyes-free voice interaction techniques, *Commanding* and *Re-dictation*, and evaluated them with a controlled experiment. Results showed that while *Re-dictation* performs significantly better for more semantically complex edits, *Commanding* is more suitable for making one-word edits, especially deletions. We developed *VoiceRev* to combine both the techniques in the same interface and evaluated it with realistic tasks. Results showed improved usability of the combined techniques over either of the two techniques used individually.

CCS Concepts: • Human-centered computing → Interaction techniques; Text input;

Additional Key Words and Phrases: Text editing, commanding, re-dictation, eyes-free, voice-based text editing, voice interaction, voice user interfaces

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<https://doi.org/10.1145/3390889>

1 INTRODUCTION

In Human-Computer Interaction (HCI), text editing typically involves visual engagement: Although text *input* can be performed using various techniques, e.g., physical keyboard, touch-based

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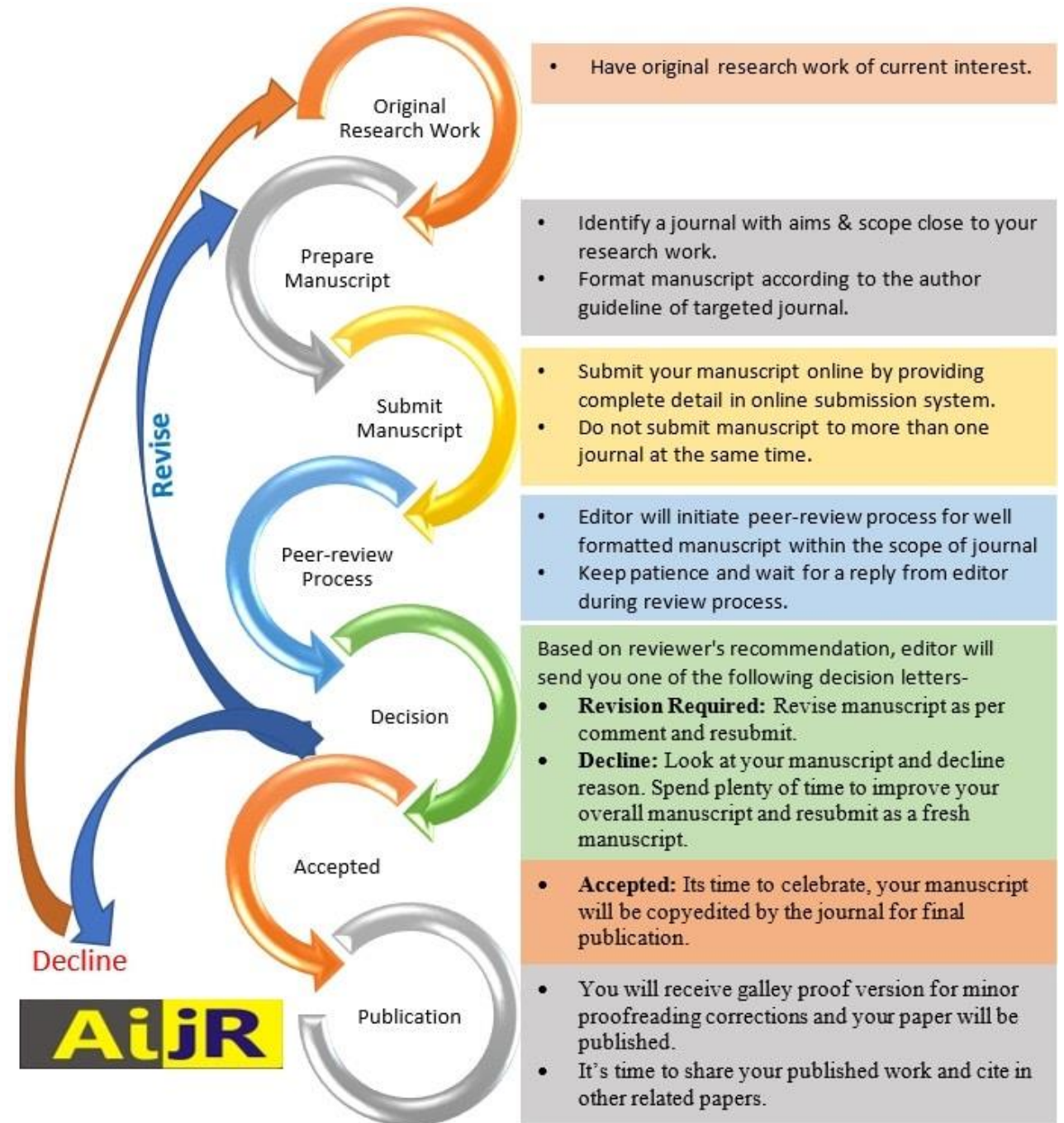
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- Formal Analysis
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- Investigation
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- Project administration
- Resources
- Software
- Supervision
- Validation
- Visualization
- Writing – original draft
- Writing – review and editing



Research visibility

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Presenting your work

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- School presentations
- Competitions



Online platforms

- Reasons to use online platforms:
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 - Get recognition and exposure
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ResearchGate

The screenshot shows the ResearchGate profile of Tristan Lim. At the top, there is a teal navigation bar with the ResearchGate logo, a search bar, and buttons for 'Discover by subject area', 'Recruit researchers', and 'Join for free'. Below the navigation bar, the breadcrumb trail reads 'Home > Nanyang Polytechnic > Tristan Lim'. The profile header includes a circular profile picture of Tristan Lim, his name, and his affiliation: 'Nanyang Polytechnic | nyp - School of Business Management' and 'Doctor of Engineering'. A 'Contact' button is located to the right of the header. Below the header, there are three tabs: 'About', 'Publications (24)', and 'Network'. The 'About' section is active and displays a summary of his research metrics: 24 Publications, 11,074 Reads, and 30 Citations. Below this, there is an 'Introduction' section with the text 'Machine Learning, AI, Finance, Teaching & Learning research' and a 'Skills and Expertise' section with tags for 'Information Systems', 'Investment', 'Finance', 'Computing', 'financial technology', 'Educational Technology', and 'Analytics'. To the right of the 'About' section, there is a 'Current institution' section for 'Nanyang Polytechnic' with the school's logo and the text 'School of Business Management...' and 'Current position Lecturer'. Below that is a 'Co-authors' section, and the first entry is 'Christopher Pang' from 'Nanyang Polytechnic'.

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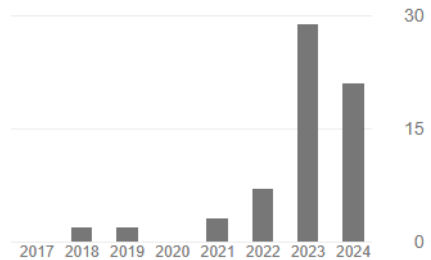
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