



# HOW TO WRITE & PUBLISH A SCIENTIFIC RESEARCH IN A HIGH-IMPACT JOURNAL

كيفية كتابة بحث علمي ونشره في المجلات الرصينة

# Presentation Outlines

give all for you

- Importance of publications
- Scopus & ISI
- Best publishers
- Journal Index
- How to check the journal (Acc. & Pre.)
- Successful research
- Types of articles
- Writing strategy
- Writing methodology



# Importance of Publications

publications help you and others

- Why we have/need to publish our research?
  - Documents scientific achievement
  - A method for communication and dissemination of knowledge
  - Promote research progress
  - Improve knowledge and technicality
  - Improve academic career goals

# Best Publishers



plan big get big

- Who are the popular academic publishers of Scopus and ISI journals?

- IEEE Transactions
- Elsevier
- Springer
- Wiley-Blackwell
- Taylor & Francis
- SAGE





# Journal Index

check before submitting

- How to check Scopus/ISI index journal?

- Scopus: Scientific Journal Rankings (SJR) website
  - <https://www.scimagojr.com/journalsearch.php?>
- ISI: InCites Clarivate Analytics website
  - <https://jcr.clarivate.com>
  - <http://mjl.clarivate.com/>

- What data you use in the checking?

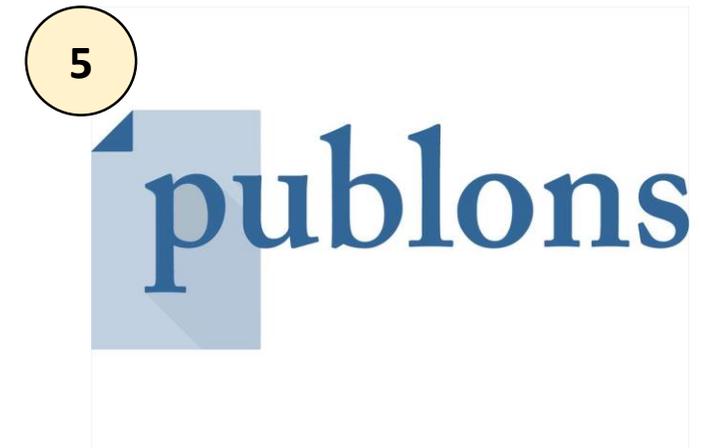
- Journal name
  - Artificial Intelligence Review
- ISSN number
  - ISSN: 0269-2821



# Scholar, Scopus and ISI H Index



DIPS Journal: 2222-8373  
BEEI Journal: 2089-3191  
IEEE Access: 2169-3536



# Types of Articles



- What are the main types of journal articles?

- Research paper
  - Short report or Letter
  - Review paper
- Sold problem
  - Real contribution
  - New finding
- Survey
  - Systematic
  - Taxonomy

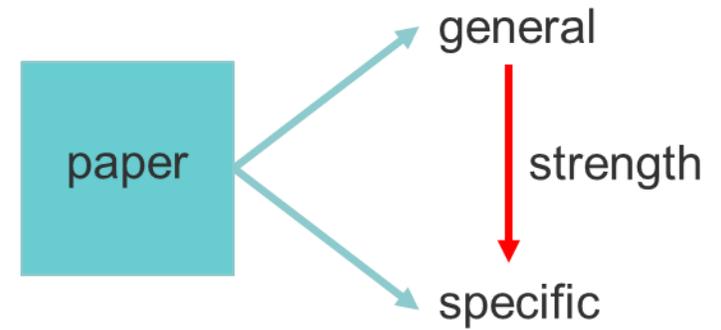




# Writing Strategy

eat more write more

- What is the good strategy for writing high-impact papers?
  - Contents have Begin-Body-End
  - Good English
    - Writing/Telling an interesting story
    - Clarity and brevity of the texts, correct grammar and spelling; and nice flow
  - Using formal methods
    - Math, Logic, Algebra, Algorithms
  - Evaluation
    - Self evaluation
    - Others evaluation





# Writing a Journal Paper

follow specific pattern in writing Literature Review

- A typical content of a original research paper

International Journal of Medical Informatics 112 (2018) 173–184



Contents lists available at [ScienceDirect](#)

International Journal of Medical Informatics

journal homepage: [www.elsevier.com/locate/ijmedinf](http://www.elsevier.com/locate/ijmedinf)



A fuzzy logic control in adjustable autonomy of a multi-agent system for an automated elderly movement monitoring application



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## How to write abstract 150 – 250 words

١  
اول سطرين شرح  
نطاق البحث

٢  
ثاني سطرين يجب ان تتضمن شرح  
مشكلة البحث بصورة محددة ودقيقة

٣  
الفرق بين الطريقة الحالية والطرق  
السابقة مقدمة بسيطة عن ال  
Contribution

٤  
شرح الطريقة المقترحة لحل مشكلة  
البحث

٥  
شرح مبسط عن التقنيات المستخدمة  
مع توضيح بسيط لدور كل تقنية

٦  
وصف نوع مجموعة البيانات  
المستخدمة  
Dataset

٧  
عرض النتائج النهائية

Web servers are usually located in a well-organized data center where these servers connect with the outside Internet directly through backbones. Meanwhile, the application-layer distributed denials of service (AL-DDoS) attacks are critical threats to the Internet, particularly to those business web servers. Currently, there are some methods designed to handle the AL-DDoS attacks, but most of them cannot be used in heavy backbones. In this paper, we propose a new method to detect AL-DDoS attacks. Our work distinguishes itself from previous methods by considering AL-DDoS attack detection in heavy backbone traffic. Besides, the detection of AL-DDoS attacks is easily misled by flash crowd traffic. In order to overcome this problem, our proposed method constructs a Real-time Frequency Vector (RFV) and real-timely characterizes the traffic as a set of models. By examining the entropy of AL-DDoS attacks and flash crowds, these models can be used to recognize the real AL-DDoS attacks. We integrate the above detection principles into a modularized defense architecture, which consists of a head-end sensor, a detection module and a traffic filter. With a swift AL-DDoS detection speed, the filter is capable of letting the legitimate requests through but the attack traffic is stopped. In the experiment, we adopt certain episodes of real traffic from Sina and Taobao to evaluate our AL-DDoS detection method and architecture. Compared with previous methods, the results show that our approach is very effective in defending AL-DDoS attacks at backbones.



# Writing a Journal Paper

- A typical content of a journal
  - Abstract
  - Introduction
  - 600 – 800 Words

**Introduction:** Autonomous agents are being widely used in many systems, such as ambient assisted-living systems, to perform tasks on behalf of humans..2

**Problem:** However, these systems usually operate in complex environments that entail uncertain, highly dynamic, or irregular workload that tend agents to make decisions that lead to undesirable outcomes..2

**Solution:** This paper proposes a fuzzy-logic-based adjustable autonomy (FLAA) model to manage the autonomy of multi-agent systems that are operating in complex environments..3

**Evaluation:** We implement and test this model in the Automated Elderly Movements Monitoring (AEMM-Care) system, which uses agents to monitor the daily movement activities of elderly users..2

**Results:** The test results show that the FLAA model improves the accuracy and performance of these agents in detecting and preventing falls..3



# Writing a Journal Paper

follow specific pattern in writing Literature Review

- A typical content of a journal
  - Abstract
  - Introduction
  - Literature Review
  - 1 – 2 pages

**Introduction:** Our literature review reveals that the agent-based healthcare systems being used today are not using fuzzy logic to control the autonomous behavior of agents.

**Application Domain:** Recent studies on healthcare or remote care have extensively explored the application of multi-agent systems in the medical field.

**Used methods/Techniques:** The work of [5] proposes a fuzzy-logic-based adjustable autonomy (FLAA) model to manage the autonomy of multi-agent systems that are operating in complex environments.

**Research gap:** However, Lustrek et al. only focus on improving the fall detection accuracy of the system and completely ignore its performance in fall prevention.



# Writing a Journal Paper

follow specific pattern in writing proposed solution

- A typical content of a journal
  - Abstract
  - Introduction
  - Literature Review
  - Proposed Solution
  - 2 – 5 pages

**Introduction:** This section explains how autonomy is represented, measured, distributed, and adjusted in the FLAA model.

**Methodology:** The methodology includes descriptions to the main research steps and the used methods, and materials.

**Modelling and Design:** The FLAA model mainly comprises an autonomy regulator, an autonomy fuzzifier, an autonomy rule base, and an inference engine.



# Writing a Journal Paper

follow specific pattern in writing testing and results

- A typical content of a journal
  - Abstract
  - Introduction
  - Literature Review
  - Proposed Solution
  - Testing and Results
  - 2 – 4 pages

**Implementation:** The proposed FLAA model is implemented and tested in the AEMM-Care system, which detects and prevents fall incidents among the elderly by tracking their daily activities [25].

**Test Setting:** The AEMM-Care system test involves performing two test series, where a test series consists of three independent runs.

**Results:** The AEMM-Care system achieves irregular success rates in the fully autonomous mode (i), such irregularity can be ascribed to the variances in the random forest agent's learning of different cross-validation folds.

**Discussion:** This model is able to reduce the spurious transition effects of the AEMM-Care system and guaranteeing competent results even when an agent misinterprets an activity or a pattern of a set of activities.

**(a) Contributions:** This study offers several contributions to research and practice. First, it proposes the FLAA model...

**(b) Limitations:** However, as a limitation of this study, it does not investigate the behavior of multi-agent systems in the long term or



# Writing a Journal Paper

follow specific pattern in writing conclusion

- A typical content of a journal
  - Abstract
  - Introduction
  - Literature Review
  - Proposed Solution
  - Testing and Results
  - Conclusion
  - 200 – 400 words

**Research Summary:** We perform this research with an aim to develop a model for managing the adjustable autonomy of multi-agent systems that are operating in complex environments.

**Contributions:** The autonomy management helps the agents to make highly flexible and efficient decisions and guides them toward achieving reliable actions. Also, the proposed system application.

**Results Summary:** The test results show that the system achieves an impressive 79.11% success rate in detecting falls and a moderate 64.07% success rate in preventing falls.

**Future Work:** Using other attributes may further improve the accuracy of fall detection and prevention systems and consequently, increase the satisfaction of the system users.



# How to find the suitable journal Acc. & Pre.

be careful

Before we submit the paper we have to check

- Scopus Source

<https://www.scopus.com/sources.uri?zone=TopNavBar&origin=searchbasic>

- SJR

<https://www.scimagojr.com/journalrank.php>

- Stop Predatory Journal & Publisher (2089-3191) & (2156-5570)

<https://predatoryjournals.com/>

- Beall list

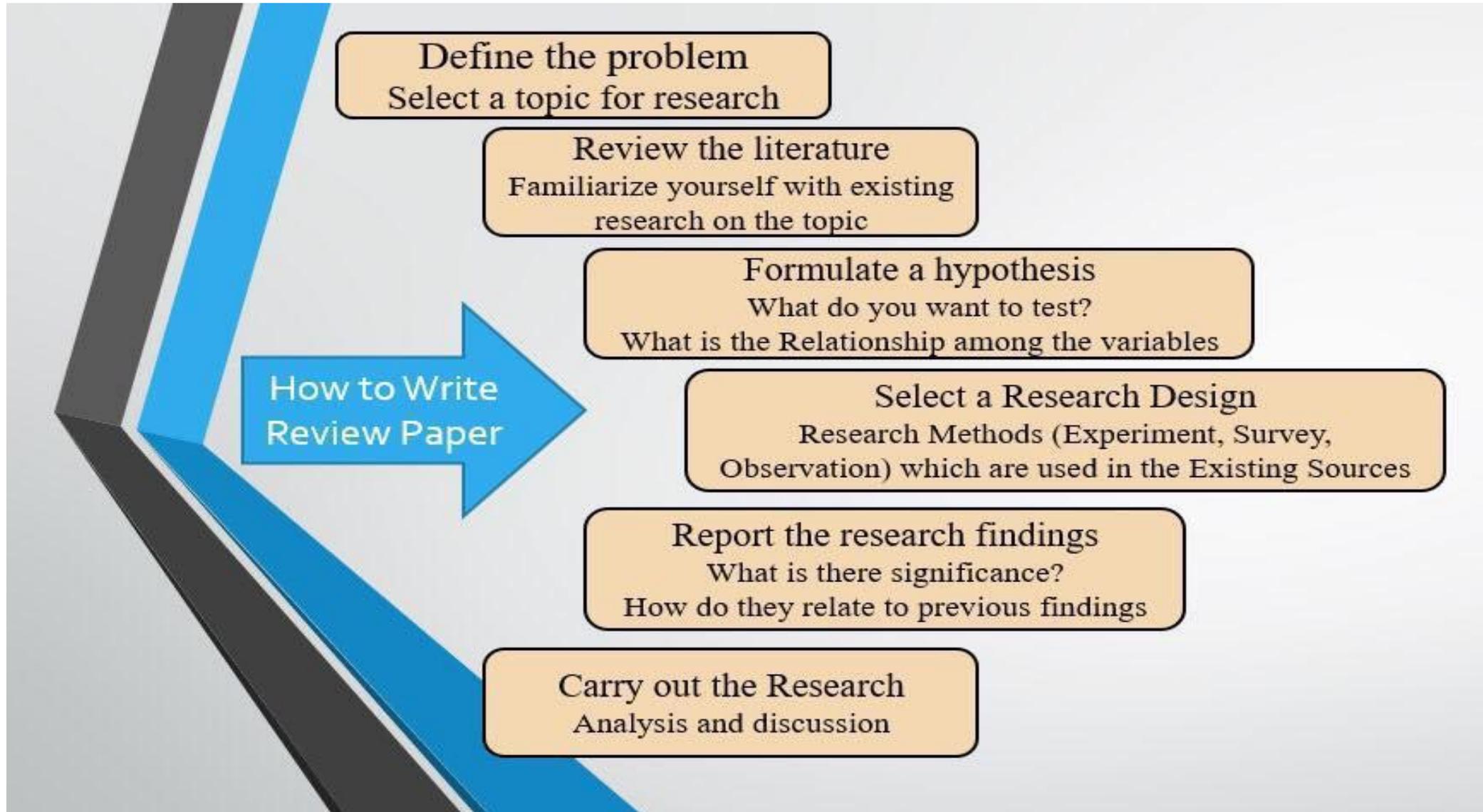
<https://beallslist.net/#update>

- <https://sci-hub.tw/>

Detection and defense of application-layer DDoS attacks in backbone web traffic



# How to write review paper



Thank you for your attention