

# **Writing for Computer Science & Engineering**

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CNU**



# Introduction

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# Class Information

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- ❖ Writing for Computer Science and Engineering
- ❖ Lecturer : Ki-II Kim (Room 625, [kikim93@gmail.com](mailto:kikim93@gmail.com))
- ❖ Time : Tuesday, 14:00 ~ 17:00
- ❖ Grade
  - Exam, Attendance, Assignment (Latex)
- ❖ Textbook
  - Justin Zobel, *Writing for Computer Science, Third Edition*, Springer 2014.



# Lecture Plan

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## ❖ Commencing a research program

- Getting started on the research and writing
- Reading and reviewing
- Principle of hypotheses, research question and evidence

## ❖ Organization of paper and theses

- Practice of writing

## ❖ Good writing

- Writing style, mathematical style, presentation of algorithms, design of figures and graphs, experts writing for other professional contexts, final editing



# Lecture Plan

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## ❖ Research methodology

- Experimentation and statistical principles

## ❖ Presentations

- Talks and posters

## ❖ Ethics



# Getting Your Research Published

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# Why Publish?

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- ❖ Requirement for getting degree
- ❖ Personal satisfaction (pure pleasure)
- ❖ Establish a reputation and build a career (promotion)
- ❖ Build knowledge (save the world)



# How Does it Work?

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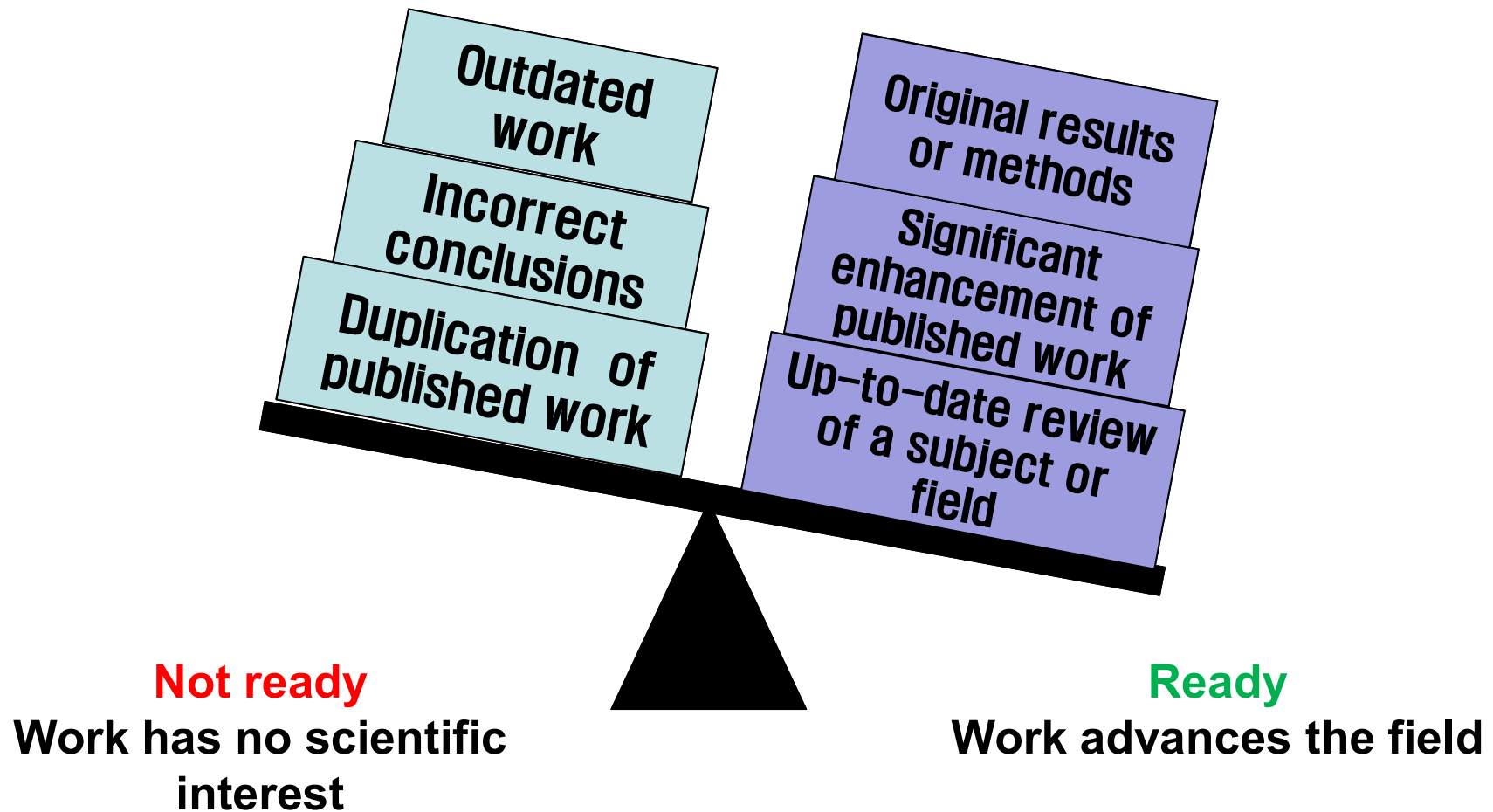
- ❖ Do some research
- ❖ Write it up
- ❖ Send it to a journal
- ❖ Editor rejects the paper... or invites a revision
- ❖ You revise and resubmit (possibly several times)
- ❖ Paper is accepted
- ❖ Paper is published





# Are you ready to publish?

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# How Does it Work?

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❖ Do some research

❖ Write it up

❖ Send it to a journal or conference

❖ Editor rejects the paper... or invites a revision

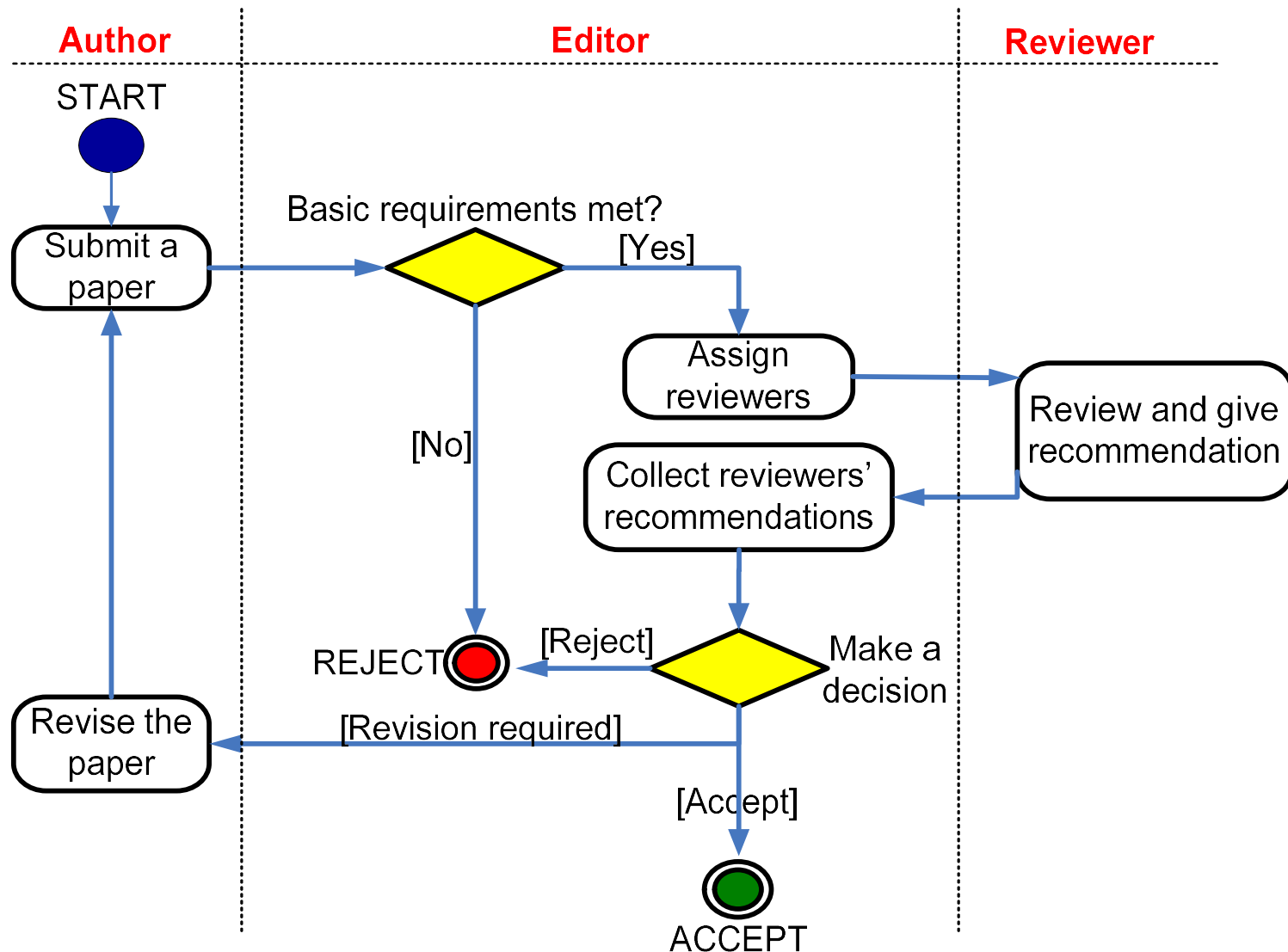
❖ You revise and resubmit (possibly several times)

❖ Paper is accepted

❖ Paper is published

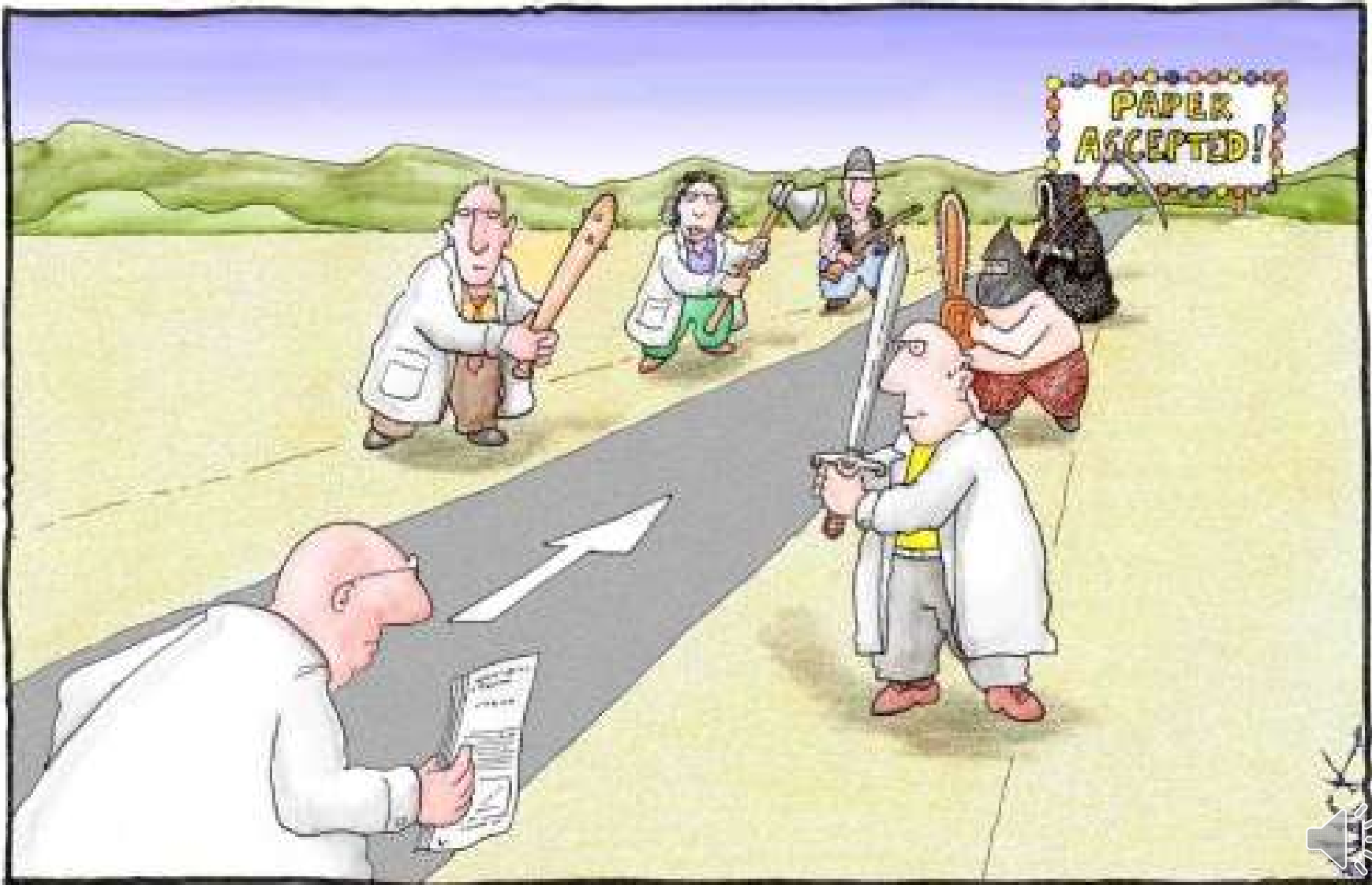


# What actually happens



# Not how it works

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# That's Easy – What's All the Fuss About?

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- ❖ **Doing top-quality research is hard**
- ❖ **Top journals (IEEE, ACM) accept only 10% of papers**
- ❖ **Review process is slow and frustrating**
- ❖ **Reviewers generally less knowledgeable about your work than you are**



# Send it to a journal or conference

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## ❖ Submission

- Target the right journal – were previous key papers published in this journal?
- Format your paper to that used by the target journal (including references)
- Get feedback before you submit the paper
- Make the Abstract and Introduction exciting and get your point(s) across
- Have something to say and communicate this



# How do I choose the right journal?

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- ❖ Aim to reach the intended audience for your work
- ❖ Choose only one journal, as simultaneous submissions are prohibited
- ❖ Supervisor and colleagues can provide good suggestions
- ❖ Shortlist a handful of candidate journals
  - Aims & Scope
  - Types of articles considered
  - Readership e.g. academic versus practice
  - Subscription versus Open Access
  - Speed of publication
  - Peer review process (single blind, double blind, open)
  - Bibliometrics



# Tools to help you choose the right journal (Elsevier)

ELSEVIER

Type here to search on Elsevier.com



Advanced search

Follow us:



Help & Contact

Journals & books

Solutions

Authors, editors & reviewers

About Elsevier

Community

Store

## For Authors

Journal authors' home

Author Rights

Ethics

Agreements

Open access

Author services

Authors' Update

Early career researchers

Book authors' home

Sharing your article

Journal and article metrics

Promote your article

## Elsevier for authors

### How to publish in an Elsevier journal

Every year, we accept and publish more than 250,000 journal articles. Publishing in an Elsevier journal starts with finding the right journal for your paper. If you already know which journal, you can enter the title directly in the search box below. Alternatively, click on the 'Start matching' button to find a suitable journal based on the abstract of your article.

Publishing  
process

Find a journal

Prepare your  
paper

Submit paper

Check status

Match your abstract to a journal

Search for a journal by name

Start matching

or

Search for a Journal



### The Elsevier publishing process step by step

#### 1. Find the right journal

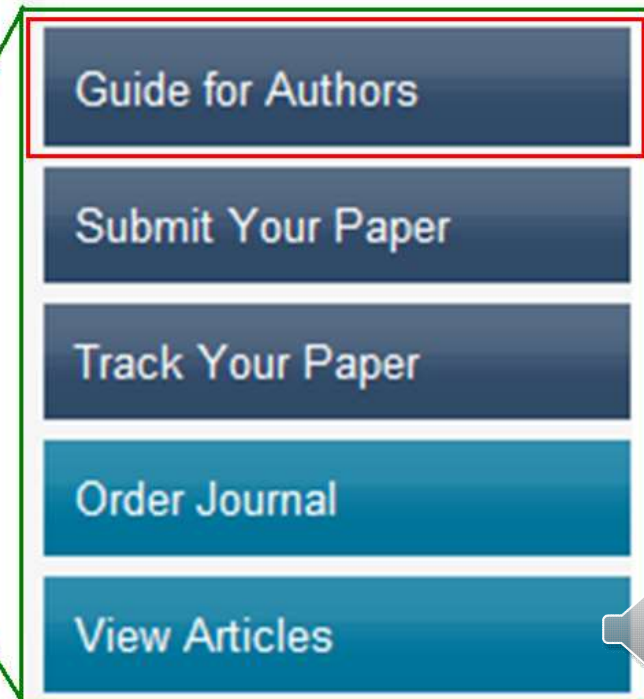
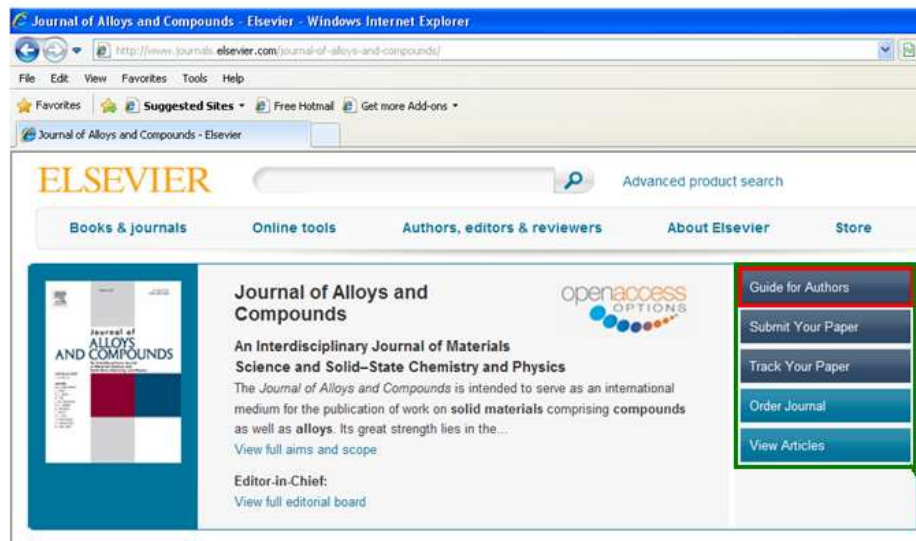
The first step is finding the right journal for your paper. Among the thousands of journals and books published by Elsevier are some of the world's most prominent and respected medical, scientific and technological publications. These include The Lancet, Cell, Tetrahedron Letters and a host of others. Find a journal match for your abstract by clicking on the blue 'Start matching' button above.





# The Guide for Authors (Elsevier)

- ❖ Find it on the journal homepage of the publisher, e.g. Elsevier.com
- ❖ Keep to the Guide for Authors in your manuscript
- ❖ It will save your time



# Tools to help you choose the right journal

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## ❖ Googling

## ❖ JCR Website

- Search the categories [CS]

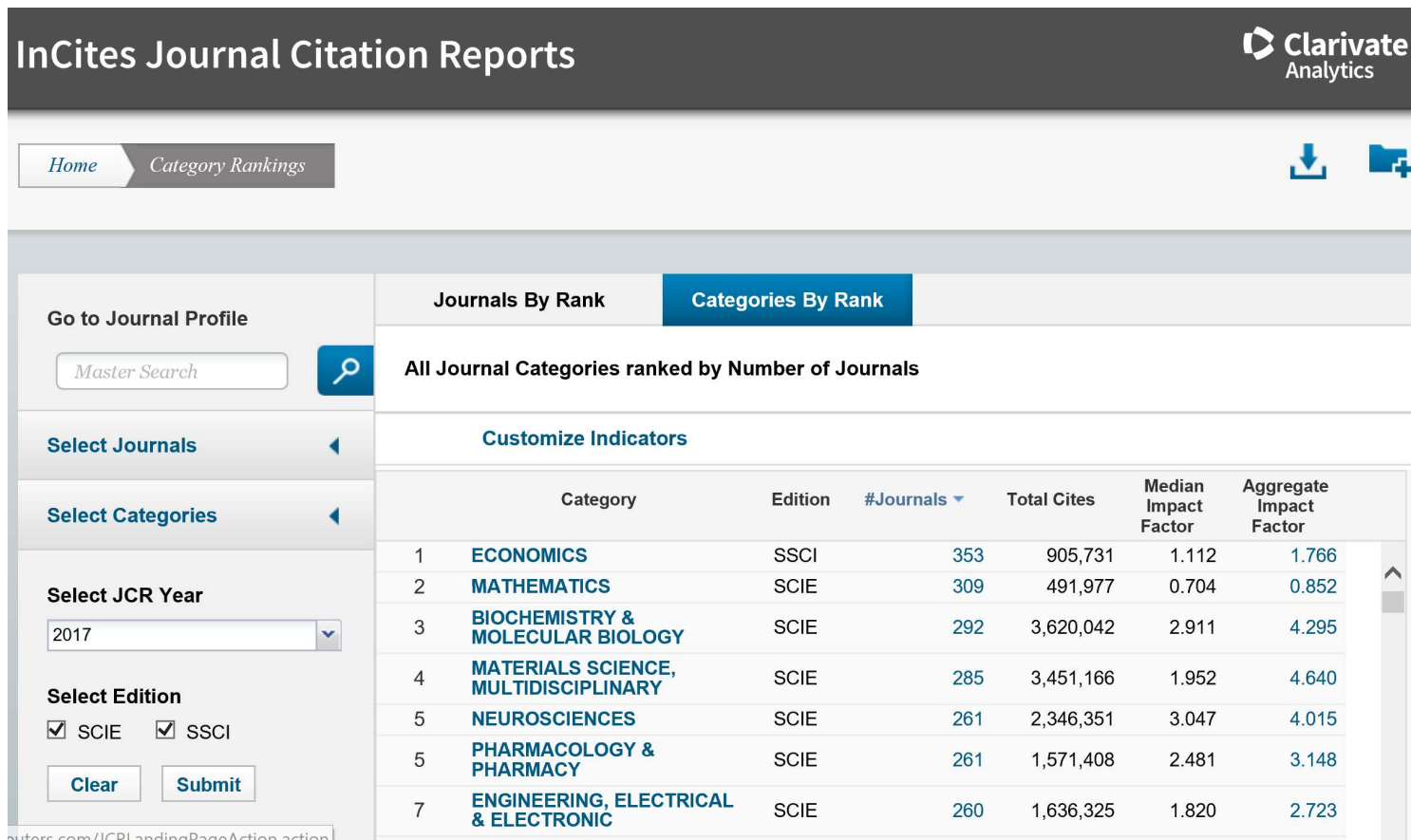
## ❖ Call for papers

- Special Issue – speciality, deadline, fixed publication date



# Tools to help you choose the right journal

## ❖ Journal Citation Reports



The screenshot displays the InCites Journal Citation Reports interface. The top navigation bar includes the Clarivate Analytics logo and a 'Home' button. Below the navigation bar, there are tabs for 'Journals By Rank' and 'Categories By Rank'. The 'Categories By Rank' tab is active, showing a table of journal categories ranked by the number of journals. The table includes columns for Rank, Category, Edition, #Journals, Total Cites, Median Impact Factor, and Aggregate Impact Factor. The categories listed are ECONOMICS, MATHEMATICS, BIOCHEMISTRY & MOLECULAR BIOLOGY, MATERIALS SCIENCE, MULTIDISCIPLINARY, NEUROSCIENCES, PHARMACOLOGY & PHARMACY, and ENGINEERING, ELECTRICAL & ELECTRONIC. The interface also features a search bar, a 'Select Journals' button, a 'Select Categories' button, a 'Select JCR Year' dropdown menu, and a 'Select Edition' section with checkboxes for SCIE and SSCI.

| InCites Journal Citation Reports |                                      |   |           |                     |                      |                         |
|----------------------------------|--------------------------------------|---|-----------|---------------------|----------------------|-------------------------|
| Home                             |                                      | Category Rankings                                   |           | Clarivate Analytics |                      |                         |
| Go to Journal Profile            |                                      | Journals By Rank                                    |           | Categories By Rank  |                      |                         |
| Master Search                    |                                      | All Journal Categories ranked by Number of Journals |           |                     |                      |                         |
| Select Journals                  |                                      | Customize Indicators                                |           |                     |                      |                         |
| Select Categories                |                                      |   |           |                     |                      |                         |
| Select JCR Year                  |                                      |   |           |                     |                      |                         |
| Select Edition                   |                                      |   |           |                     |                      |                         |
| Clear                            |                                      | Submit  |           |                     |                      |                         |
| Rank                             | Category                             | Edition   | #Journals | Total Cites         | Median Impact Factor | Aggregate Impact Factor |
| 1                                | ECONOMICS                            | SSCI  | 353       | 905,731             | 1.112                | 1.766                   |
| 2                                | MATHEMATICS                          | SCIE  | 309       | 491,977             | 0.704                | 0.852                   |
| 3                                | BIOCHEMISTRY & MOLECULAR BIOLOGY     | SCIE  | 292       | 3,620,042           | 2.911                | 4.295                   |
| 4                                | MATERIALS SCIENCE, MULTIDISCIPLINARY | SCIE  | 285       | 3,451,166           | 1.952                | 4.640                   |
| 5                                | NEUROSCIENCES                        | SCIE  | 261       | 2,346,351           | 3.047                | 4.015                   |
| 5                                | PHARMACOLOGY & PHARMACY              | SCIE  | 261       | 1,571,408           | 2.481                | 3.148                   |
| 7                                | ENGINEERING, ELECTRICAL & ELECTRONIC | SCIE  | 260       | 1,636,325           | 1.820                | 2.723                   |



# Tools to help you choose the right journal

## ❖ Journal Citation Reports

Journals in COMPUTER SCIENCE, SOFTWARE ENGINEERING

Go to Journal Profile

Master Search

Compare Journals

View Title Changes

Select Journals

Select Categories

Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

Compare Selected Journals

Add Journals to New or Existing List

Customize Indicators

| Select All               |   | Full Journal Title                                   | Total Cites | Journal Impact Factor | Eigenfactor Score |
|--------------------------|---|--|-------------|-----------------------|-------------------|
| <input type="checkbox"/> | 1 | IEEE Transactions on Services Computing              | 1,636       | 4.418                 | 0.00517           |
| <input type="checkbox"/> | 2 | IEEE Transactions on Dependable and Secure Computing | 1,692       | 4.410                 | 0.00407           |
| <input type="checkbox"/> | 3 | ACM TRANSACTIONS ON GRAPHICS                         | 16,424      | 4.384                 | 0.03759           |



# How do I choose the right conference?

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- ❖ **BK21+ conference list**

- ❖ **Networking Conferences Statistics**

  - <https://www.cs.ucsb.edu/~almeroth/conf/stats/>

- ❖ **Call for paper**

  - Enrolling the mailing list (Mycolleagues, seworld)
  - Important factors (?) : where, when, how long



# Send it to a journal or conference

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## ❖ Submission

- Target the right journal – were previous key papers published in this journal?
- Format your paper to that used by the target journal (including references)
- Get feedback before you submit the paper
- Make the Abstract and Introduction exciting and get your point(s) across
- Have something to say and communicate this



# Choice of Word Processor

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## ❖ Choice

- Availability
- Figure, tables, mathematics
- Multiple fonts and size
- Cross-references to figure, table, equations, sections and bibliographic entries
- Lifecycle of technical articles

## ❖ Visual style vs. compiler style

- Ms word vs. Latex
- Immediate use, first draft vs. scientific writing

## ❖ Compiler style

- Stable, macro facilities, no mathematical problem (looks amateurish)
- **Latex is best word-processor for scientific writing**



# Example of Submission (Elsevier)





HOME • LOGOUT • HELP • REGISTER • UPDATE MY INFORMATION • JOURNAL OVERVIEW  
MAIN MENU • CONTACT US • SUBMIT A MANUSCRIPT • INSTRUCTIONS FOR AUTHORS • PRIVACY

Role:  Username: kikim@cnu.ac.kr

## Author Main Menu

[How can I find out more about the status of my manuscript?](#)

### New Submissions

[Submit New Manuscript](#)

Submissions Sent Back to Author (0)

Incomplete Submissions (0)

Submissions Waiting for Author's Approval (0)

Submissions Being Processed (0)

### Revisions

Submissions Needing Revision (0)

Revisions Sent Back to Author (0)

Incomplete Submissions Being Revised (0)

Revisions Waiting for Author's Approval (0)

Revisions Being Processed (0)

Declined Revisions (0)



### Completed

[Submissions with a Decision \(2\)](#)





# Example of Submission (Elsevier)

HOME • LOGOUT • HELP • REGISTER • UPDATE MY INFORMATION • JOURNAL OVERVIEW  
MAIN MENU • CONTACT US • SUBMIT A MANUSCRIPT • INSTRUCTIONS FOR AUTHORS • PRIVACY

Role: Author Username: kikim@cnu.ac.kr



Article Type  
Selection



Attach Files



Manuscript  
Data

**Choose the Article Type of your submission from the drop-down menu.**

***How do I submit a manuscript?***

## Select Article Type

Research paper

This publication requests that Authors Link to their ORCID record to Authenticate their ORCID iD before they submit. You only need to do this once in order to permanently associate your ORCID record with your user record here.

Use the button below to go to ORCID, log into your record there – or create one – and authorize the return of your ORCID Identifier.

ORCID ID: (None)

[Link to ORCID Record](#) [What is ORCID?](#)

Proceed →



# Example of Submission (Elsevier)

Editorial Manager® Archives

Role: Author Username: kikim@cnu.ac.kr

JOURNAL OVERVIEW  
INSTRUCTIONS FOR AUTHORS • PRIVACY

data (or a part of it) into an additional journal publication in Data in Brief, a multi-disciplinary open access journal. Data and associated metadata which are often overlooked in supplementary material, or descriptions of the complete dataset you have deposited in an external data repository. Submissions to Data in Brief are actively reviewed, indexed, given a DOI and a Data in Brief template. A data article will make your data easier to find, easier to reproduce, and easier to cite. Please use the Data in Brief template to follow the 'Co-submission Instructions' in this template.

Article Processing Charge (APC) is payable by the author or research funder to cover the costs associated with publication. For more information, please visit [elsevier.com/journals/data-in-brief/2352-3409/open-access-journal](https://elsevier.com/journals/data-in-brief/2352-3409/open-access-journal).

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MethodsX

We invite you to submit your research methods as a separate article alongside your research article. This is an opportunity to get full credit for the time and money spent on developing your research methods and impact of your work. If your research article is accepted, we will contact you with instructions on the MethodsX. On receipt at MethodsX it will be editorially reviewed and, upon acceptance, published as a separate article in ScienceDirect. Please prepare your paper using the MethodsX [Guide for Authors](#) and template available here:



| Order | Description      | File Name       | Size       | Last Modified | Actions      | Select                   |                          |
|-------|------------------|-----------------|------------|---------------|--------------|--------------------------|--------------------------|
| 1     | *Manuscript File | Manuscript File | 975018.pdf | 111.7 KB      | Jul 17, 2020 | <a href="#">Download</a> | <input type="checkbox"/> |

[Update File Order](#) [Remove](#) [Check All](#) [Clear All](#)

[Back](#) [Proceed](#)

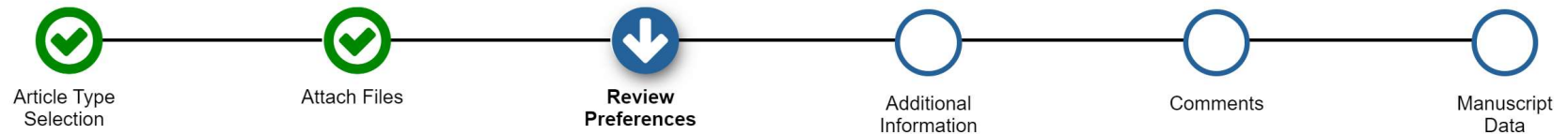
오전 9:34  
2020-07-18

# Example of Submission (Elsevier)



HOME • LOGOUT • HELP • REGISTER • UPDATE MY INFORMATION • JOURNAL OVERVIEW  
MAIN MENU • CONTACT US • SUBMIT A MANUSCRIPT • INSTRUCTIONS FOR AUTHORS • PRIVACY

Role: Author Username: kikim@cnu.ac.kr



*Please provide the requested information.*

## – Suggest Reviewers

Please suggest potential reviewers for this submission and provide specific reasons for your suggestion in the comments box for each person. Please note that the editorial office may not use your suggestions, but your help is appreciated and may speed up the selection of appropriate reviewers.

**Suggesting 2 reviewer(s) is Required for Submission.**

### Current Suggested Reviewers List

+ Add Suggested Reviewer

*There are currently no Suggested Reviewers in the list.*

+ Add Suggested Reviewer

↓ Next

+ Oppose Reviewers



# How Does it Work?

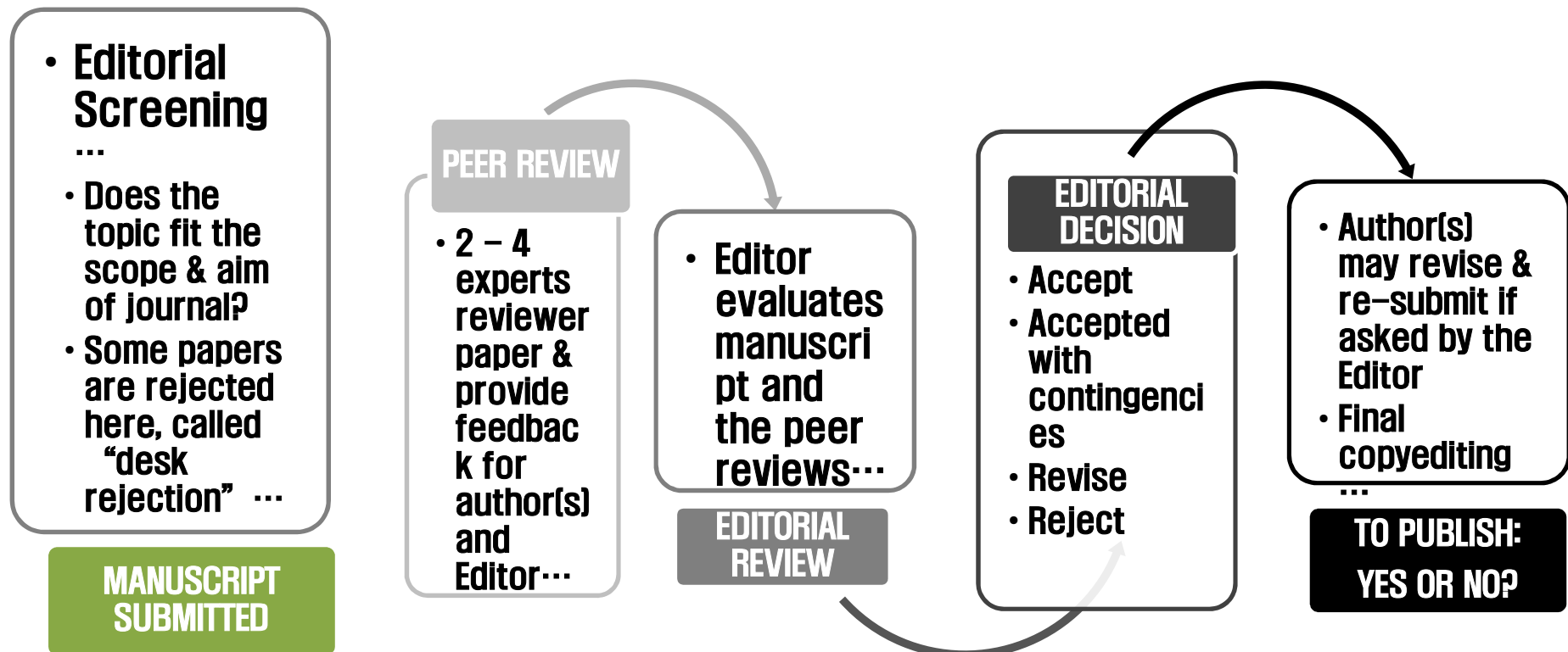
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- ❖ Do some research
- ❖ Write it up
- ❖ Send it to a journal or conference
- ❖ Editor rejects the paper... or invites a revision
- ❖ You revise and resubmit (possibly several times)
- ❖ Paper is accepted
- ❖ Paper is published



# Peer Review Process

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# Peer Review



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# Why Should You Review Manuscript?

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- ❖ Read latest research in public health
- ❖ Read examples of good & horrible papers!
- ❖ Improves your own manuscript writing!
- ❖ Add manuscript reviewing to C.V.!







# Revision

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- ❖ Don' t ignore the reviewers or editor no matter how stupid they are
- ❖ Tailor your revision notes around the reviewer comments
  - Number the responses or keep them in the same order as the reviewer comments
  - Repeat the reviewer comments then respond to them
  - Help the reviewer navigate through the revised paper by telling him/her where the changes are



# Revision

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## ❖ Don't forget to also respond to the editor

- If you disagree with a reviewer, explain this separately to the editor. This is a neutral person
- Make copies of reviewer responses for editor and each reviewer. It's amazing how often paperwork gets mixed up in the review process
- If using electronic submission, watch out for glitches



# Responding to reviewer comments

## ADDRESSING REVIEWER COMMENTS

BAD REVIEWS ON YOUR PAPER? FOLLOW THESE GUIDELINES AND YOU MAY YET GET IT PAST THE EDITOR:

### Reviewer comment:

"The method/ device/ paradigm the authors propose is clearly wrong."

### How NOT to respond:

✗ "Yes, we know. We thought we could still get a paper out of it. Sorry."

### Correct response:

✓ "The reviewer raises an interesting concern. However, as the focus of this work is exploratory and not performance-based, validation was not found to be of critical importance to the contribution of the paper."

### Reviewer comment:

"The authors fail to reference the work of Smith et al., who solved the same problem 20 years ago."

### How NOT to respond:

✗ "Huh. We didn't think anybody had read that. Actually, their solution is better than ours."

### Correct response:

✓ "The reviewer raises an interesting concern. However, our work is based on completely different first principles (we use different variable names), and has a much more attractive graphical user interface."

### Reviewer comment:

"This paper is poorly written and scientifically unsound. I do not recommend it for publication."

### How NOT to respond:

✗ "You #&@\*% reviewer! I know who you are! I'm gonna get you when it's my turn to review!"

### Correct response:

✓ "The reviewer raises an interesting concern. However, we feel the reviewer did not fully comprehend the scope of the work, and misjudged the results based on incorrect assumptions."

www.phdcomics.com

# Conference

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## ❖ Submission before deadline

- Good conference has hard deadline

## ❖ Most of conference uses web-based submission

- EDAS (IEEE), Self-System (ACM)
- Submission
- Decision
- Camera-ready paper
- Presentation



# Some Words Related to Paper Submission

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- ❖ Conflict of interests
- ❖ Acknowledgements
- ❖ Covering letter
- ❖ Plagiarism
- ❖ SCI(E), Impact factor, Scopus
- ❖ IEEE, ACM, USENIX
- ❖ Blind review
- ❖ IEEE Society, ACM SIG
- ❖ .....



# CS 분야 제출 시스템

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- ❖ EDAS : IEEE Conferences
- ❖ EasyChair : IEEE Conference
- ❖ EditorialManager: Elseiver
- ❖ ScholarOne Manuscripts : IEEE journal
- ❖ Susy.mdpi.com : MDPI
- ❖ .....



# 국내 학술대회 및 저널

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## ❖ 학술대회

- 춘계, 추계 학술대회가 매년 개최
- 동계 학술대회가 있는 곳도 있음
- 워크샵의 이름으로 진행되는 곳도 있음

## ❖ 주관기관

- 정보과학회, 한국통신학회, 한국정보처리학회...

## ❖ 저널

- 각 기관별 저널이 있음
- 한국연구재단 등재지 제도 확인 필요 (KRI)



# Funny Story

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## ❖ 대학원생 최악

- 교만 : 이 정도는 금방 쓰겠지
- 시기 : 나도 퍼블리시 할 수 있어
- 분노 : 결과가 안 나와
- 나태 : 실험하기 싫다 논문읽기 싫다
- 탐욕 : 읽지도 않을 논문 수집
- 식탐 : 간식없이 버틸 수 없다





