

# **RESEARCH METHODOLOGY**

## **LECTURE 3**

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Information Technology University

**Slides Courtesy: Dr. Saeed Ul Hassan**

# BIBLIOGRAPHY DATABASES

- **Google Scholar**

- Free
- Indiscriminate
- H5-Index



- **Clarivate Analytics ISI WOS**

- Oldest commercial citation database
- Institutionalized
- Impact Factor

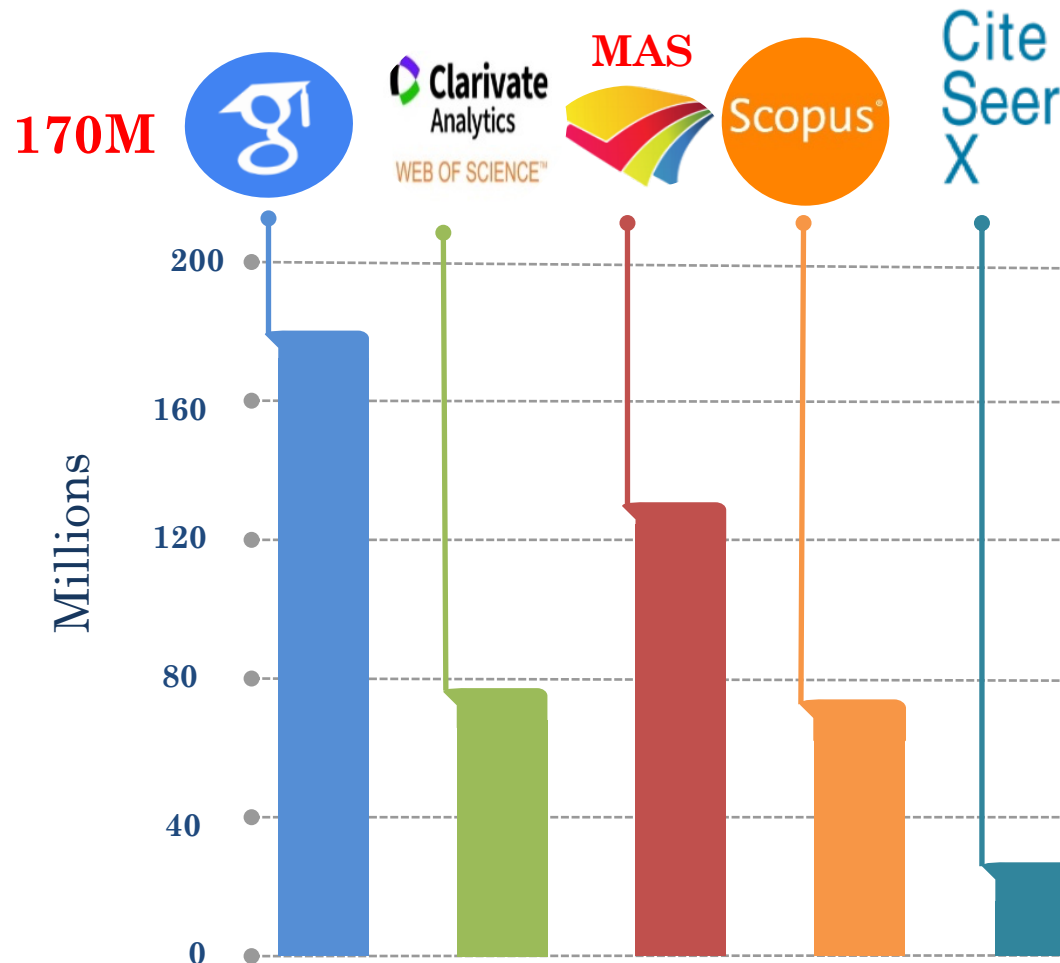


- **Scopus**

- Introduced in 2004
- Broader coverage than ISI
- SNIP (Source-Normalized Impact per Paper )
- CiteScore, Percentile



# BIBLIOGRAPHY DATABASES



# BIBLIOGRAPHY DATABASES

## Bibliographic Data Sources

### Open Access

Google Scholar

SSRN



dblp  
computer science bibliography

PubMed



BioOne  
COMPLETE

ArXiv Miner

### Proprietary Data

Scopus<sup>®</sup>

ici  
Indian Citation Index



THOMSON REUTERS  
WEB OF SCIENCE



# FULL-TEXT DATA SOURCES

## Open Access



## Proprietary Data



# PACKING RESEARCH IN A NUMBER!

## ○ **Bibliometrics**

- Impact Factor
- SNIP
- SJR
- H-5 Index
- ...

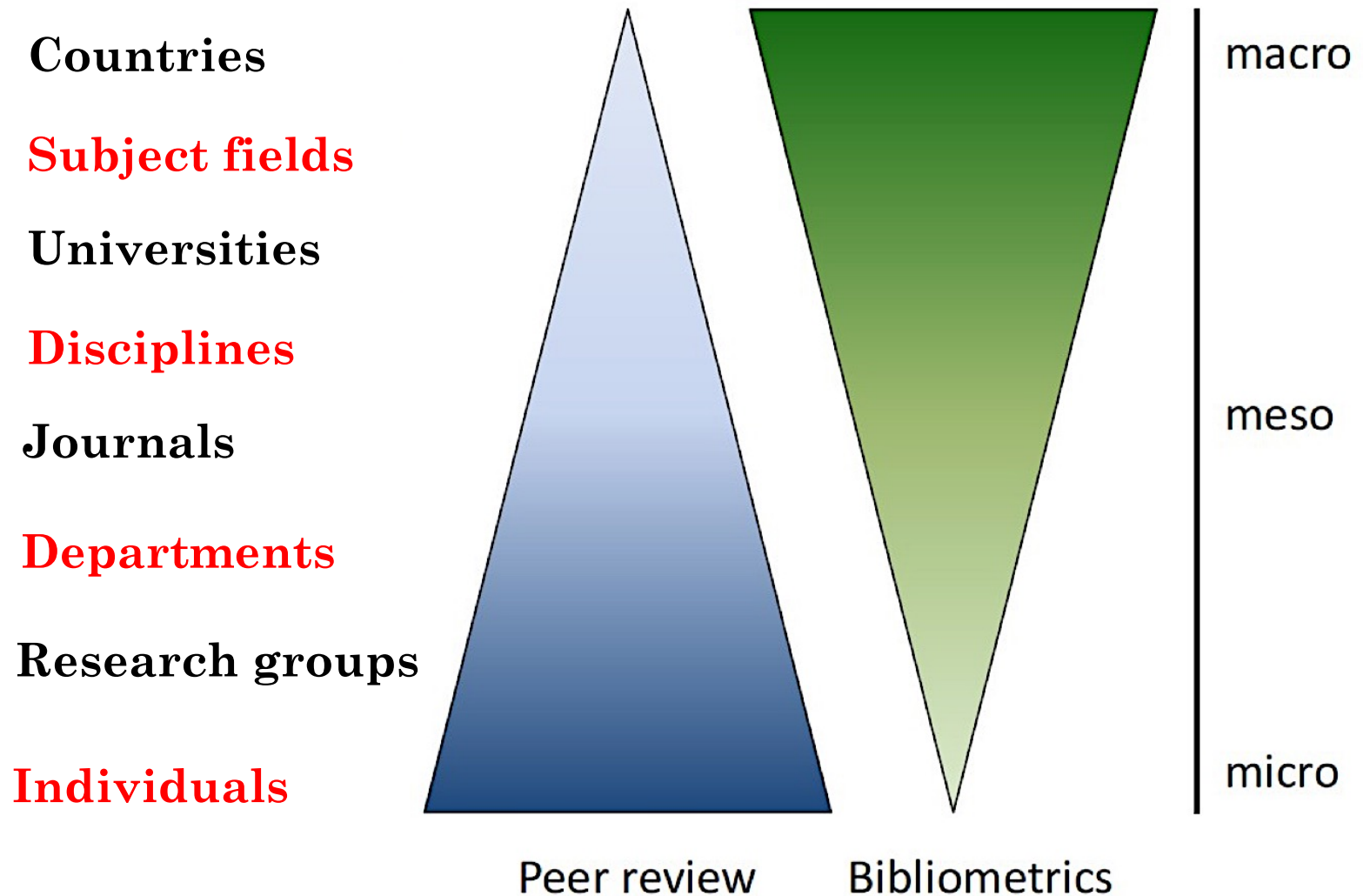


## ○ **Peer Review**

- Core ERA Rankings
- ABS Rankings
- Conference Rankings
- ...



# THE WEIGHT OF QUALITATIVE VS QUANTITATIVE

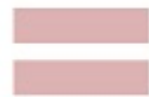
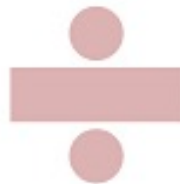


# IMPACT FACTOR (IF)



Impact Factor

Total number of  
times its articles  
were cited  
during the two  
previous years



Total number of  
citable articles  
in the journal  
during those  
two years

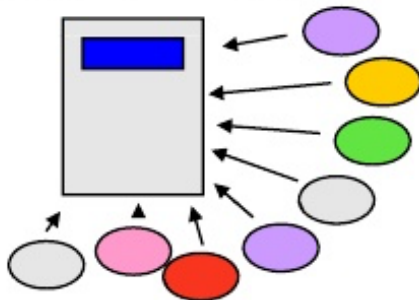
A journal's  
Impact Factor  
for a  
particular  
year



# SOURCE NORMALIZED IMPACT PER PAPER (SNIP)

- The **SNIP** measures contextual citation **impact** by weighting citations based on the total number of citations in a subject field. It's the ratio of 3 years Scopus based IF by Database Citation Potential.

1. Collect papers citing 1-3 year old papers in target journal in 2009



2. Collect reference lists of citing papers



3. Count number of references in citing papers to any (in any journal) 1-3 year old papers



4. Citation Potential = average number of references to any 1-3 year old papers

# GOOGLE SCHOLAR METRICS

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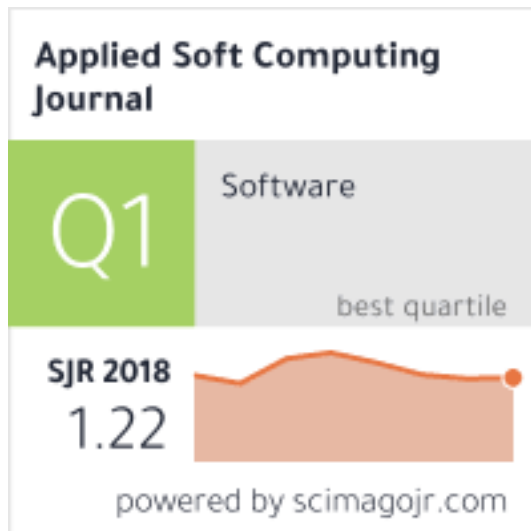
- Google Scholar Metrics provide an easy way for authors to quickly gauge the visibility and influence of recent articles in scholarly publications. Scholar Metrics summarize recent citations to many publications, to help authors as they consider where to publish their new research.
- <https://scholar.google.com>

Google Scholar

# SCIMAGO JOURNAL RANK (SJR)

- Based on the **eigenvector centrality** measure used in network theory. Such measures establish the **importance of a node** in a network based on the principle that connections to high-scoring nodes contribute more to the score of the node.

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



SJR

Scimago Journal & Country Rank

Enter Journal Title, ISSN or Publisher Name

Home

Journal Rankings

Country Rankings

Viz Tools

Help

About Us

All subject areas

All subject categories

All regions / countries

All types

2018

☐ Only Open Access Journals

☐ Only SciELO Journals

☐ Only WoS Journals

Display journals with at least 0

Citable Docs. (3years)

Apply

Download data

1 - 50 of 31971

Title	Type	↓ SJR	H index	Total Docs. (2018)	Total Docs. (3years)	Total Refs. (2018)	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc. (2018)	
1 CA - A Cancer Journal for Clinicians	journal	72.576 Q1	144	45	127	3078	20088	103	206.85	68.40	
2 MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports / Centers for Disease Control	journal	48.894 Q1	134	3	12	559	1043	12	86.00	186.33	

# EXCELLENCE RESEARCH AUSTRALIA

- The Computing Research and Education Association of Australia, CORE, is an association of university departments of computer science in Australia and New Zealand. The latest guide includes a total of **811** conferences.

<http://www.core.edu.au/>

CORE2021 Summary:

A\* - 7.15%

A - 15.91%

B - 37.24%

Australasian B - 1.73%

C - 36.37%

Australasian C

Other - 165 total



# ASSOCIATION OF BUSINESS SCHOOLS

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- A guide to the range, subject matter and relative quality of journals in which business and management academics publish their research. The latest guide includes a total of **1,703 journals**.

**<https://charteredabs.org/>**



**4\* Tier**  
**4 Tier**  
**3 Tier**  
**2 Tier**  
**1 Tier**



# HEC JOURNAL RECOGNITION SYSTEM

**HJRS** HEC Journal  
Recognition System

JOURNAL SEARCH

DISCIPLINE-WISE SEARCH

ABOUT HJRS

FAQs

For Year 2021-22

## Journal Search

JOURNAL NAME

ISSN

Find Journal

HJRS 2021-22 is applicable from July 01, 2021 to June 30, 2022. However, in following conditions, journal shall be treated as automatically de-recognized from the date of such discontinuation/removal if even present in HJRS. • Discontinued from Scopus (if only indexed in Scopus) • Discontinued from Web of Science (if only indexed in Web of Science) • Discontinued from both i.e. Web of Science and Scopus (if indexed in both) • Placed in Directory of Open Access Journals (DOAJ) removed list • Placed in Australian Business Dean Council (ABDC) removed list

## Journal of Information Science



ISSN  
0165-5515,1741-6485



COUNTRY  
United Kingdom



Scopus : Yes

WoS : Yes



### SUBJECT AREA & SUB CATEGORY

- ☑ Social Sciences
- ☑ Computer Science

## Subject Area Position

SOCIAL SCIENCES

COMPUTER SCIENCE

Parameter	Raw Score	HJRS Percentile
EFT <sup>TM</sup> *	0.00148	53
AJFT <sup>TM</sup> *	0.531	30
SJR *	0.499	71
H-Index	64	92
CD2	3.84	96
SNIP *	1.7263	88

JPI  
63

Medallion  
Silver

Category  
W

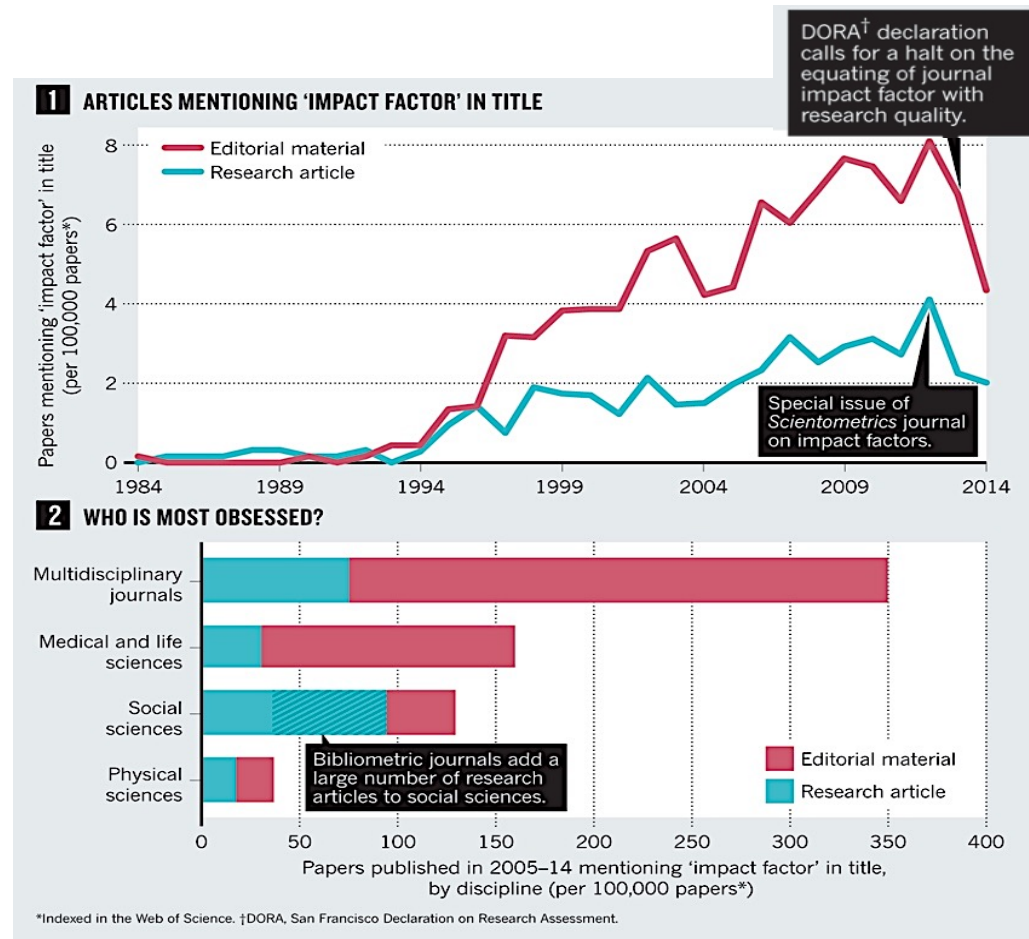
Subject Area Position  
962 / 6542

<https://hjrs.hec.gov.pk/>

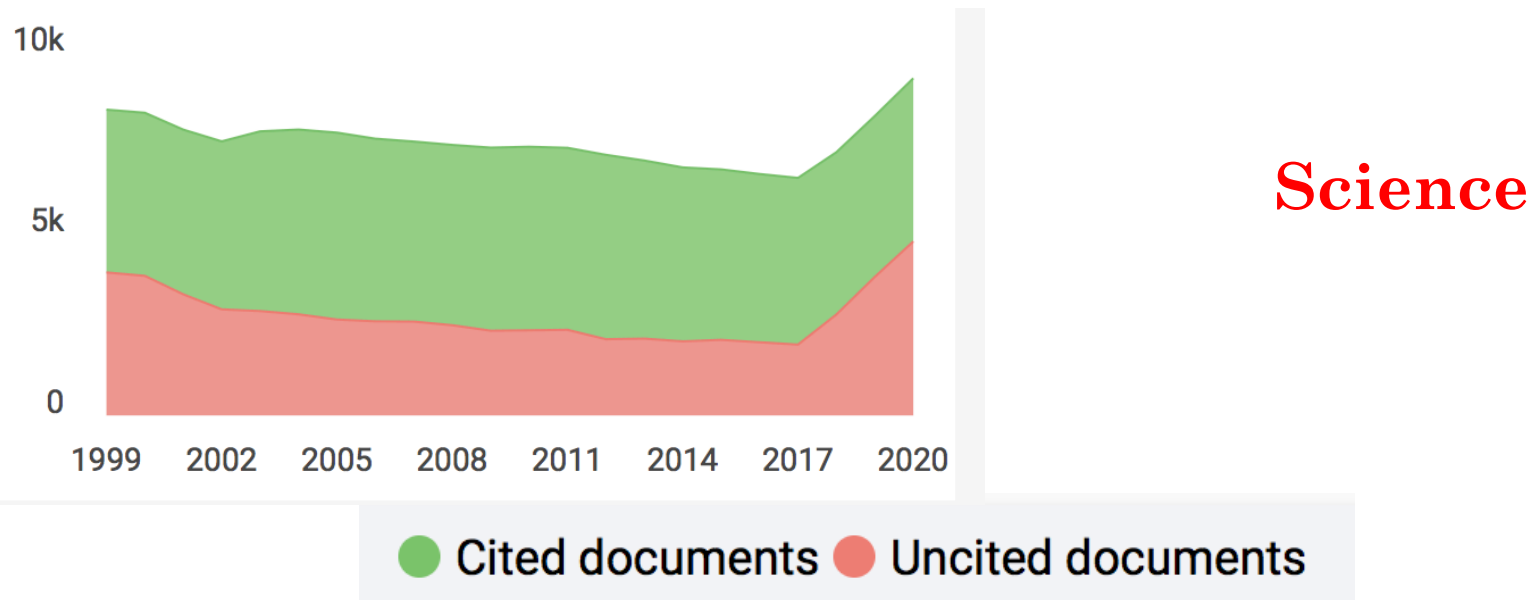
# IMPACT FACTOR OBSESSION

## Sans Francisco, The Declaration on Research Assessment (DORA)

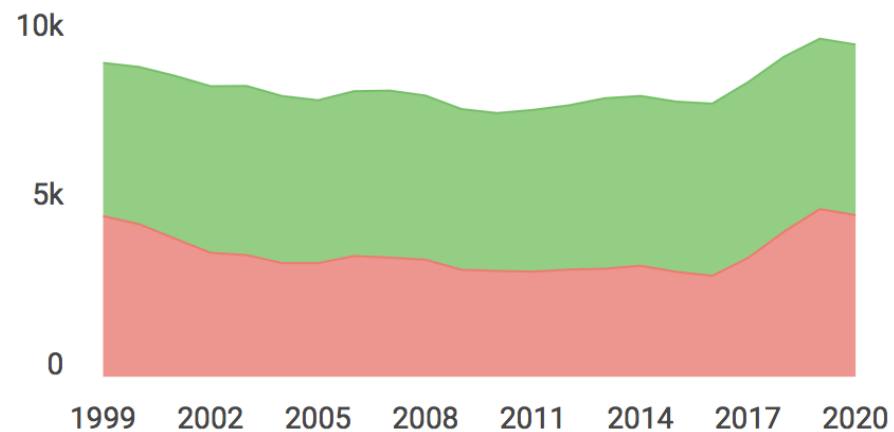
“impact factor”  
term per 100k papers



# EVEN SCIENCE & NATURE...



**Nature**





# UNIVERSITY RANKINGS



PROFESSIONAL CAMPUS JOBS EVENTS RANKINGS STUDENT SERVICES



## World University Rankings 2022

The *Times Higher Education* World University Rankings 2022 include more than 1,600 universities across 99 countries and territories, making them the largest and most diverse university rankings to date.

2022

How to get your uni

<https://www.timeshighereducation.com/>

# UNIVERSITY RANKINGS

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- Times Higher Education World University Rankings
- QS World University Rankings
- Academic Ranking of World Universities
- CWTS Leiden Ranking
- The Webometrics Ranking



# ITU QUALITY RESEARCH RANKING

[Home](#)[Ranking](#)[About](#)[Method](#)[Publications](#)[Team](#)[Contact](#)

## ITU Quality Research Ranking of Muslim World

### ITU Quality Research Ranking 2019 - *Analytical Insights*

ITU Quality Research Rankings (ITU-QRR) is intended to provide objective data and analytics of more than 450 universities and institutes of the Muslim World to benchmark research performance across 250 plus subject areas for the purpose of strengthening the quality and impact of research. **How is this ranking done?** ([Click Here](#))



Ranking Results



Analytics



University Profile

<http://rankings.itu.edu.pk/>

# UNIVERSITY RANKINGS W.R.T SDG



# UNIVERSITY RANKINGS W.R.T SGD



PROFESSIONAL CAMPUS JOBS EVENTS RANKINGS STUDENT SERVICES



## EXPLORE IMPACT RANKINGS FOR INDIVIDUAL SDGS



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2022

How to get your uni

<https://www.timeshighereducation.com/>

# TERM PAPER

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**Please start selecting topics for the term paper!!**

