

Intelligent
Embedded Systems

How to search for good
papers?

Where to find papers?

- Google / Google Scholar
- IEEE
- sciencedirect, researchgate,...

- **Access:** karla, arXiv

- Konferenzen vs Journal (nature)
vs arXiv (open-source)

- Main Track,
- Workshop,
- etc.)

- **Reviews** (single blind and double blind)

- arXiv: Papers deposited on this repository are pre-publication versions and authors can add a DOI to their pre-print version on arXiv after it has been published.

The screenshot shows the IEEE Xplore search results page. At the top, there's a navigation bar with links to IEEE.org, IEEE Xplore, IEEE-SA, IEEE Spectrum, and More Sites. A search bar is present with a dropdown menu set to 'All'. Below the search bar, it says 'Showing 1-25 of 140,488 for machine learning'. There are filters for Conferences (110,965), Journals (23,842), Early Access Articles (2,662), Magazines (1,903), Books (1,071), Standards (34), and Courses (11). A sidebar on the left allows filtering by 'Show' (All Results, Subscribed Content, Open Access Only) and 'Year' (Single Year, Range). The main content area lists two papers: 'Informed Machine Learning - A Taxonomy and Survey of Integrating Prior Knowledge into Learning Systems' and 'Survey on lie group machine learning'. A 'Standards Dictionary Terms' sidebar on the right lists terms like RESTful, accuracy, activity, application, artificial intelligence (AI), automation, customer, exception, feature, knowledge, label, ontology, and precision.

What is a survey?

A paper that summarizes and organizes recent research results in a novel way that integrates and adds understanding to work in the field. A survey article assumes a general knowledge of the area; it emphasizes the classification of the existing literature, developing a perspective on the area, and evaluating trends

- Provide reader with a view of existing work that is well organized and comprehensive
 - Not all details must be included, which one's should/shouldn't?
 - State-of-the-art view
 - Summarize the research on a particular topic
 - Include your own commentary on the significance of the approach and the solutions presented in each paper
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- Provide a critical assessment of the work that has been done
 - Include a discussion on future research directions
 - you should have a thorough and deep knowledge of the field that you are surveying
 - This knowledge should be sufficient to be completely aware of the the main themes, directions, controversies, and results in that field.

Tips for Google scholar

A major problem of both approaches is that it is very time-consuming to find out high-quality articles based on the found articles or their references and related work. This is especially true for articles that were published after the present article.

- For a better specification of the search with Google and Google scholar use:
http://www.googleguide.com/favorite_notation.html
- from Paper search for recent publications with "Cited by:..." and "Search in articles with citations" possible
- search via author profile for his similar publications

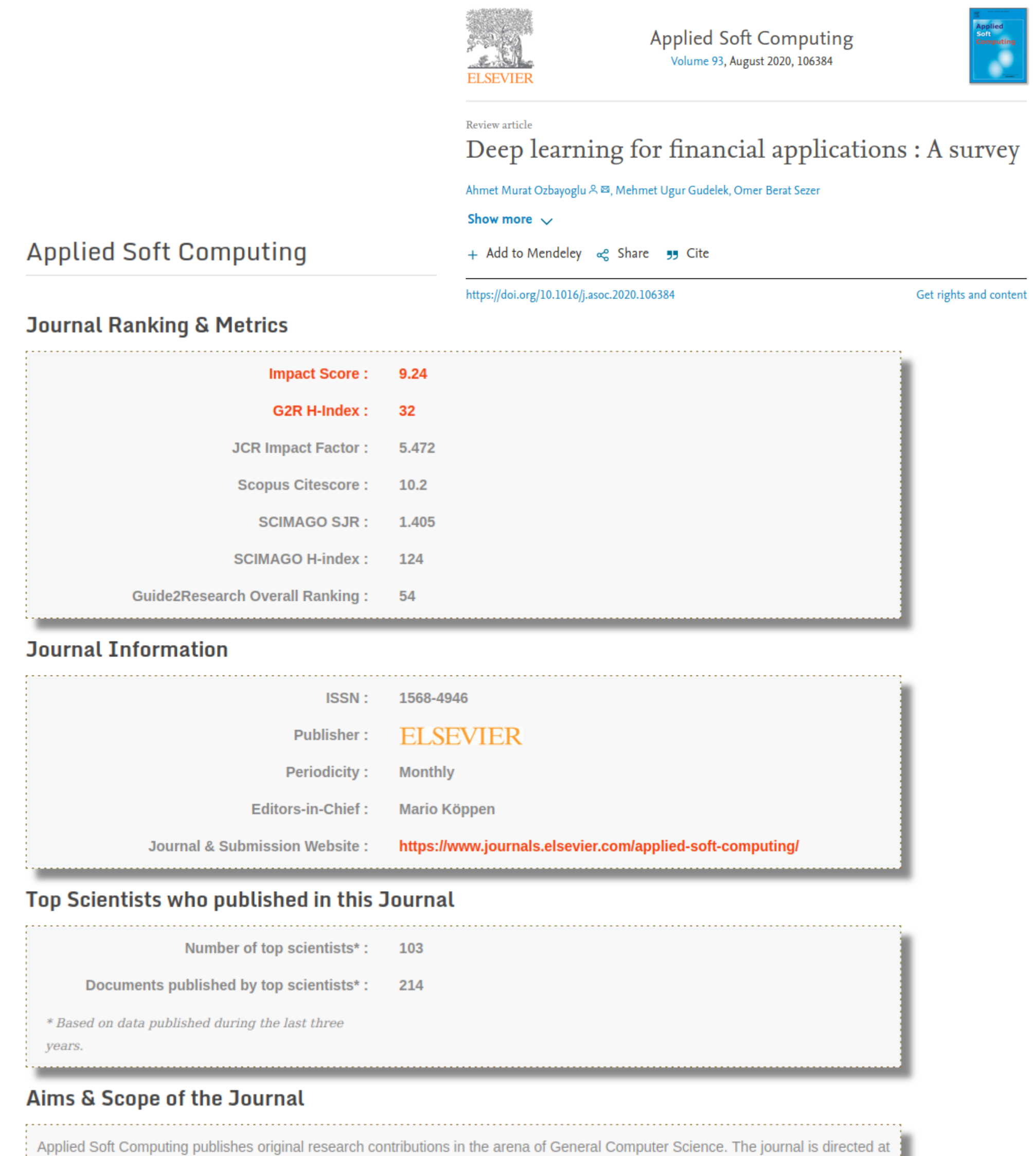
What is a good paper?

- The **impact factor (IF)** of an academic journal is a scientometric index calculated by Clarivate that reflects the yearly mean number of citations of articles published in the last two years. ^[1]
- The **SCImago Journal Rank (SJR)** indicator is a measure of the scientific influence of scholarly journals that accounts for both the number of citations received by a journal and the importance or prestige of the journals where the citations come from. ^[2]
- The **h-index** is an author-level metric that measures both the productivity and citation impact of the publications, initially used for an individual scientist or scholar. ^[3]

[1] https://en.wikipedia.org/wiki/Impact_factor

[2] https://en.wikipedia.org/wiki/SCImago_Journal_Rank

[3] <https://en.wikipedia.org/wiki/H-index>



The screenshot displays the journal's homepage for Applied Soft Computing. At the top, it shows the Elsevier logo and the journal title 'Applied Soft Computing' with the volume and issue information 'Volume 93, August 2020, 106384'. Below this, a featured review article is highlighted: 'Deep learning for financial applications : A survey' by Ahmet Murat Ozbayoglu, Mehmet Ugur Gudelek, and Omer Berat Sezer. The page also includes a 'Journal Ranking & Metrics' section with various scores, a 'Journal Information' section with details like ISSN and publisher, and a 'Top Scientists who published in this Journal' section. The footer contains the 'Aims & Scope of the Journal'.

Metric	Value
Impact Score	9.24
G2R H-Index	32
JCR Impact Factor	5.472
Scopus Citescore	10.2
SCIMAGO SJR	1.405
SCIMAGO H-index	124
Guide2Research Overall Ranking	54

Field	Value
ISSN	1568-4946
Publisher	ELSEVIER
Periodicity	Monthly
Editors-in-Chief	Mario Köppen
Journal & Submission Website	https://www.journals.elsevier.com/applied-soft-computing/

Metric	Value
Number of top scientists*	103
Documents published by top scientists*	214

* Based on data published during the last three years.

Aims & Scope of the Journal

Applied Soft Computing publishes original research contributions in the arena of General Computer Science. The journal is directed at

Research Cycle

1. Set an overall scope and collect papers
 2. Based on initial readings (Abstract, Introduction and Conclusion) think about an organization scheme of your topic
 - inclusion/exclusion criteria for the paper
 3. Start reading (skimming) and organizing your collection using your scheme
 - which ones are most important?
 - which ones do not fit?
 4. After gaining a significant amount of knowledge: Set the scope in detail
 - redefine some kind of research question
 5. Adjust your scheme, use basic literature/videos/websites to fill your knowledge gaps
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- Take notes and classify your papers
 - You cannot cover everything
 - Which concepts appear frequently and why? Who used them? What are the differences of the findings? What are the open questions?
 - Compile implications of your research

Tips

- Use a bibliography software (zotero, mendeley, citavi)!
- Connected Paper:
<https://www.connectedpapers.com/>
- <https://dblp.org/> ← department publications?
- Use references to find more references!
- learn the field, use the words, use the established structures!

