How to Get Published with the IEEE

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Why we are here today

Support the IEEE mission of “Advancing Technology for Humanity”

- Enhance your ability to develop high-quality scholarly research papers
- Advance the careers of engineers and researchers
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- Assist authors in selecting the best outlet for their research
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IEEE / IET Electronic Library (IEL):
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- IET Conference Papers, 25 annual titles
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- Bell Labs Technical Journal
- Backfile to late 1800s for select titles
- Unlimited access to over 4.6 million full-text documents

Topics Covered in Today’s Workshop

1. Publishing choices
2. Choosing an Audience
3. Paper Structure
4. Ethics
5. Where to Publish
6. Open Access
7. Impact Factor
8. Next Steps & Resources
IEEE Journal or IEEE Conference?

- A **journal article** is a fully developed presentation of your work and its final findings
  - Original research results presented
  - Clear conclusions are made and supported by the data

- A **conference article** can be written while research is ongoing
  - Can present preliminary results or highlight recent work
  - Gain informal feedback to use in your research

- Conference articles are typically shorter than journal articles, with less detail and fewer references
IEEE Journal or IEEE Conference?

**IEEE Journals**

- **PRO**
  - IEEE journals cited 3 times more often in US patent applications than other leading publisher’s journals
  - High percentage of articles submitted to any professional publication are rejected

**IEEE Conferences**

- **CON**
  - IEEE Conference proceedings are recognized worldwide as the most vital collection of consolidated published articles in EE, computer science, and related fields
  - Per IEEE Policy, if you do not present your article at a conference, it may be suppressed in IEEE Xplore and not indexed in other databases

Publication Types

- **Letters**: brief articles, fast publication
- **Journals and Transactions**: full-length research articles
- **Magazines**:
  - Feature articles: peer-reviewed, typically have fewer equations and references than a journal article
  - Columns such as editorials and society news are not reviewed
What IEEE editors and reviewers are looking for

- Appropriate content, in scope and level
- Clearly written original material that addresses a new and important problem
- Extension of previously published work
- Valid methods and rationale
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject
How does the review process work?

- Editor-in-Chief gets the paper after it goes through content match check (iAuthenticate) and “banned author” check
- If the paper is in scope for the journal, it is assigned to an Associate Editor
- Assoc. Editor assigns the paper to five or more reviewers
- Reviewers send their comments back to the editor
- Editor makes a recommendation to the EIC as follows
  - Accept
  - Revise & Resubmit
  - Reject
- The EIC makes the final decision and informs the corresponding author

Example of one journal’s review process

IEEE Transactions on Information Technology in Biomedicine
Check the Status of Your Review

Track status and view the details of your manuscripts on the Author Dashboard.
Select the appropriate queue in the My Manuscripts section.
The results will display directly below the dashboard.

Why IEEE editors and reviewers reject papers

- Content is not a good fit for the publication
- Serious scientific flaws:
  - Inconclusive results or incorrect interpretation
  - Fraudulent research
- It is poorly written or quality is not good enough for journal
- The work does not address a big enough problem or advance the scientific field
- The work was previously published
- Work was submitted to multiple publications
- Reviewers have misunderstood the article
Structure

Elements of a manuscript

- Title
- Abstract
- Keywords
- Introduction
- Methodology
- Results/Discussions/Findings
- Conclusion
- References
Title

An effective title should...
- Answer the reader’s question: “Is this article relevant to me?”
- Grab the reader’s attention
- Describe the content of a paper using the fewest possible words
  - Is crisp, concise
  - Uses keywords
  - Avoids jargon

Title Dos and Don’ts

A better approach of managing environmental and energy sustainability via a study of different methods of electric load forecasting

VS

A Human Expert-based Approach to Electrical Peak Demand Management
Abstract

- A concise, comprehensive reflection of your article
- Self-contained, without abbreviations, footnotes or references
- Between 150-250 words. Adhere to these limits, otherwise you will need to edit your abstract accordingly.
- Written as one paragraph, and should not contain equations or tabular material
- Should include three or four different keywords or phrases. This will help readers discover your work.
- Avoid over-repetition of phrases as this can result in a page being rejected by search engines

Abstract Dos and Don’ts

The objective of this paper was to propose a human expert-based approach to electrical peak demand management. The proposed approach helped to allocate demand curtailments (MW) among distribution substations (DS) or feeders in an electric utility service area based on requirements of the central load dispatch center. Demand curtailment allocation was quantified taking into account demand response (DR) potential and load curtailment priority of each DS, which can be determined using DS loading level, capacity of each DS, customer types (residential/commercial) and load categories (deployable, interruptible or critical). Analytic Hierarchy Process (AHP) was used to model a complex decision-making process according to both expert inputs and objective parameters. Simulation case studies were conducted to demonstrate how the proposed approach can be implemented to perform DR using real-world data from an electric utility. Simulation results demonstrated that the proposed approach is capable of achieving realistic demand curtailment allocations among different DSs to meet the peak load reduction requirements at the utility level.

This paper presents and assesses a framework for an engineering capstone design program. We explain how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. Next, we describe a way to administer and execute the capstone design experience including design workshops and lead engineers. We describe the importance in assessing the capstone design experience and report recent assessment results of our framework. We comment specifically on what students thought were the most important aspects of their experience in engineering capstone design and provide quantitative insight into what parts of the framework are most important.
Introduction

- A description of the problem you researched
- It should move step by step through:
  - Generally known information about the topic
  - Prior studies’ historical context to your research
  - Your hypothesis and an overview of the results
  - How the article is organized

- The introduction should be:
  - Specific, not too broad or vague
  - About 2 pages

Methodology

- Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis
- Use illustrations to clarify ideas and support conclusions

Tables
Present representative data or when exact values are important to show

Figures
Quickly show ideas/conclusions that would require detailed explanations

Graphs
Show relationships between data points or trends in data
Results/discussion

Demonstrate that you solved the problem or made significant advances

**Results: Summarizes the Data**
- Should be clear and concise
- Use figures or tables with narrative to illustrate findings

**Discussion: Interprets the Results**
- Why your research offers a new solution
- How can it benefit other researchers professionals

Conclusion

- Explain what the research has achieved
  - As it relates to the problem stated in the Introduction
  - Revisit the key points in each section
  - Include a summary of the main findings and implications for the field

- Provide benefits and shortcomings of:
  - The solution presented
  - Your research and methodology

- Suggest future areas for research
References

- Support and validate the hypothesis your research proves, disproves or resolves
- There is no limit to the number of references
  - But use only those that directly support your work (about 30)
- Ensure proper author attribution
  - Author name, article title, publication name, publisher, year published, volume and page number, Digital Object Identifier (DOI)

Ethics
Types of Misconduct

Conflict of Interest
A financial or other relationship with the publication at odds with the unbiased presentation of data or analysis

Author Attribution
Must be given if you use another author's ideas in your article, even if you do not directly quote a source

Plagiarism
Copying another person's work word for word or paraphrasing without proper citation

Author involvement/contributions
- Include any and all who have made a substantial intellectual contribution to the work
- Do not include minor contributors

Ethical Publishing

- Avoid plagiarism
  - Cite and separate verbatim copied material
  - Paraphrase other's text properly, and include citation
  - Credit any ideas from other sources
  - Familiarize yourself with IEEE Policies

- Author must submit original work that:
  - Has not appeared elsewhere for publication
  - Is not under review for another publication
  - Cites previous work
  - Indicates how it differs from previously published work
  - Authors MUST inform the editor when submitting previously published work

Refer to our Guidelines: https://www.ieee.org/publications/rights/mult-sub-guidelines-intro.html
Where to Publish?

**Traditional Journals:**
Users/Libraries pay for access

**Open Access Journals:**
Author pays, free download

**Hybrid Journals:**
Most articles traditional, some are open access (author preference)
Open Access with IEEE

Hybrid
- 100+ well-established IEEE publications

Topical Journals
- IEEE Journal of the Electron Devices Society
- IEEE Journal of Translational Engineering in Health and Medicine
- IEEE Power and Energy Technology Systems Journal
- IEEE Photonics Journal
- IEEE Journal on Exploratory Solid-State Computational Devices and Circuits

Multidisciplinary
- IEEE Access

Open Access: Emerging Trends

- EU preference is for Open Access: green or gold OA is acceptable
- Open Access deposit accounts gaining traction across EU to help students fund their work
- Authors can now add Funding Agency field to their published work
- Search by Funding Agency field in Advanced Search

Resources:
- IEEE Open site: open.ieee.org
- IEEE Access homepage: ieeeaccess.ieee.org
Self-Archiving Policy

- IEEE allows authors to deposit the accepted (not final) version of their paper (available through the Author Gateway) to their institutional or funding repository, or to post it on their personal websites.

- Our full policy can be found here: http://www.ieee.org/publications_standards/publications/rights/paperversionpolicy.html

Impact Factor
Are we depending too heavily on Impact Factors?

Journal's reputation in the community is important

For new and lesser known journals, look at the reputation of the editorial board

Look at the number of downloads, as IEEE uses this for revenue distribution

Are patent citations present? IEEE includes these in Xplore

Next Steps
First Steps

Your research problem must contribute new and important knowledge to your field

- Conduct a Literature Review
- Take Notes & Keep Track
- Gather References & Citations
- Draft an Outline

Tools to start your literature review

- Full-text databases
  - IEEE Xplore®
  - Other relevant scientific publishers

- Abstracting and Indexing databases
  - Web of Science
  - Scopus

- For more resources, contact your library
Start simply

Narrow, or refine
From 6,669 to 49

Re-sort results to find new or highly-cited papers
Most cited – by papers or patents

Once you know key authors, find articles by that person
Or filter keyword searches by authors

Helpful Tips on searching IEEE Xplore®

- Target specific publications once you’ve found the right focus
- Use Basic, Advanced, or Command Search for Boolean search and Truncation
- Use Basic and Command search for Proximity search
- Full-text search available in Advanced and Command search
- Use a Personal Account to stay organized while doing literature searches
First Steps

- Conduct a Literature Review
- **Take Notes & Keep Track**
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Create a free personal account

- Take advantage of personalization features, such as search preferences, search history and search alerts
- Select "Create Account link on the top of any IEEE Xplore page"
Personal account benefits

**Saved Search Alerts**: Stay up-to-date with the latest research by saving your search. IEEE will notify you when new articles of interest are available.

**Table of Contents Alerts**: Sign up to receive an email when a new journal or magazine in your area of interest has been posted online.

**Search History**: Search history allows you to record your 50 most recent searches for later viewing and create more complex searches by combining searches. Turn on the search history recording feature in your preferences.

**Search Preferences**: Designate what you want to search and how you want your search results displayed in IEEE Xplore by setting search preferences.

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**Personal Account: Set Preferences**
Keep track: Search History

Re-run or combine searches
### Stay current: Saved Search Alerts

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Alerts will be sent to paulhenriques@gmail.com in plain text format. These settings can be updated within the Preferences feature.

### Keep Current: Content Alerts

Select journals and magazines below to receive email alerts. Some alerts can be set up to send a notification when articles are first published in an issue, when an issue is complete, or both.

<table>
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<th>Journal &amp; Magazine</th>
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<td>IEEE Antennas and Propagation Magazine</td>
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Alerts will be sent to paulhenriques@gmail.com in "Plain Text" format. You can change your alert email address and preferred email format in Preferences under My Settings.
First Steps

- Conduct a Literature Review
- Take Notes & Keep Track
- Gather References & Citations
- Draft an Outline

Ways to use references and citations

One paper’s reference list can be a gateway to a second set of relevant articles during your literature search.

You must cite references in your paper to support your research.
Citation Map: See References & Citing Documents in One View

Find “Cited By” documents: Papers or Patents
Article metrics

Download citations from results
Final Steps

Find the right publication and submit your paper

- Locate IEEE Author Tools
- Identify relevant journals
- Browse conference calls for papers
- Submit your paper

IEEE Author Center

ieeauthorcenter.ieee.org
More Graphics Help

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Article Templates

- Word and LaTeX
- Quickly and easily format article for submission
- A properly formatted article can:
  - Go through review and publication faster
  - Require fewer stylistic edits
  - Reduce risk of rejection
  - Reduce reviewer fatigue
Final Steps

Find the right publication and submit your paper

- Locate IEEE Author Tools
- Identify relevant journals
- Browse conference calls for papers
- Submit your paper

Author Tool: Publication Recommender
Or, use Journal home pages in IEEE Xplore®

Final Steps

Find the right publication and submit your paper

- Locate IEEE Author Tools
- Identify relevant journals
- Browse conference calls for papers
- Submit your paper
Finding Conference Calls for Papers

Final Steps

Find the right publication and submit your paper

- Identify relevant journals
- Browse conference calls for papers
- Submit your paper
Identify yourself with ORCID

ORCID is a unique, persistent identifier which helps authors:

- Ensure work is discoverable and connected to them throughout career (including moves and name changes)
- Minimize time spent entering repetitive information for manuscript submissions and grant applications
- Eliminate name ambiguity and ensure proper attribution

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[Image of Author Lab in IEEE Collabratec]
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- 75k+ subscribers, few unsubscribers
- Author toolbar at the right of every issue
- Sign up at [http://ieeauthorcenter.ieee.org](http://ieeauthorcenter.ieee.org)

Journal paper submission is easy through IEEE Xplore

Click "Submit a Manuscript"

Follow the prompts to set up an account
Use conference site (not IEEE Xplore) to submit to a conference

For complete information, see the Call for Papers for the conference in question.

Each IEEE sponsored conference has its own requirements for publishing.

IEEE Author Guide Always Available

- Authors learn how to prepare, write, and submit quality technical articles
- Can be downloaded
- Includes embedded links to information, forms, etc.

For more information or to download: https://www.ieee.org/publications_standards/publications/authors/publishing_benefits/index.html?WT.mc_id=pb_ben_pub
eBook: The IEEE Guide to Writing in the Engineering and Technical Fields

- Brought to you by Wiley-IEEE Press
- Written for engineers, technical professionals, scientists, researchers, teachers, and students
- A tool to help written work more clear and better targeted for sharing knowledge
- Available for download: https://ieeexplore.ieee.org/xpl/bkabstractplus.jsp?bkn=8052361

Free Authorship videos on IEEE.tv

Speaker: Professor Saifur Rahman from Virginia Tech (VP of Pubs for IEEE's Power & Energy Society)

**Key sites to remember**

**IEEE Author Center:** [ieeeauthorcenter.ieee.org](http://ieeeauthorcenter.ieee.org)

**IEEE Conference Search and Calls for Papers:** [ieee.org/conferences_events/index.html](http://ieee.org/conferences_events/index.html)

**IEEE Xplore:** [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

**IEEE Xplore information, training and tools:** [www.ieee.org/go/clientservices](http://www.ieee.org/go/clientservices)

**IEEE Journal Citation reports:** [www.ieee.org/publications_standards/publications/journmag/journalcitations.html](http://www.ieee.org/publications_standards/publications/journmag/journalcitations.html)

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**Contacts for Author Questions**

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To Sum Up...

- Journal or Conference? Consult the Publication Recommender: [publication-recommender.ieee.org/home](https://publication-recommender.ieee.org/home)
- DO NOT submit to multiple publications at once
- Keep your writing clear and concise
- Use images, charts, and graphs to illustrate your research and methodology
- Open Access homepage: [open.ieee.org](http://open.ieee.org)
- Register for your free ORCID ID: [https://orcid.org](https://orcid.org)
- Leverage the features of IEEE Xplore and the free IEEE Xplore Personal Account to help you during your literature review
- Author Center: ieeeauthorcenter.ieee.org
- Questions? Need help? Contact the Editor in Chief early and often!

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Thank You!

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