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Speaker

Ranbir S Sedhey

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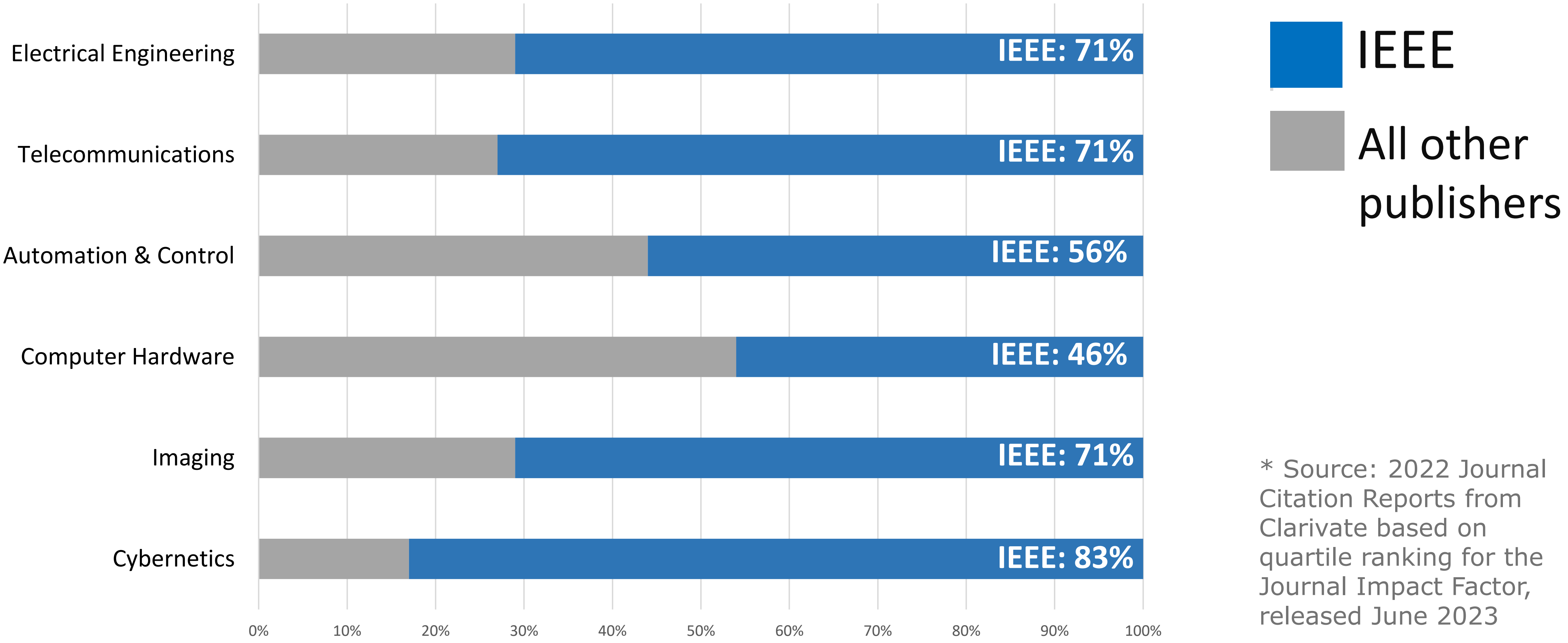
*IEEE as a percentage of top quartile publications across key fields of Interest**



* Source: 2022 Journal Citation Reports from Clarivate based on quartile ranking for the Journal Impact Factor, released June 2023

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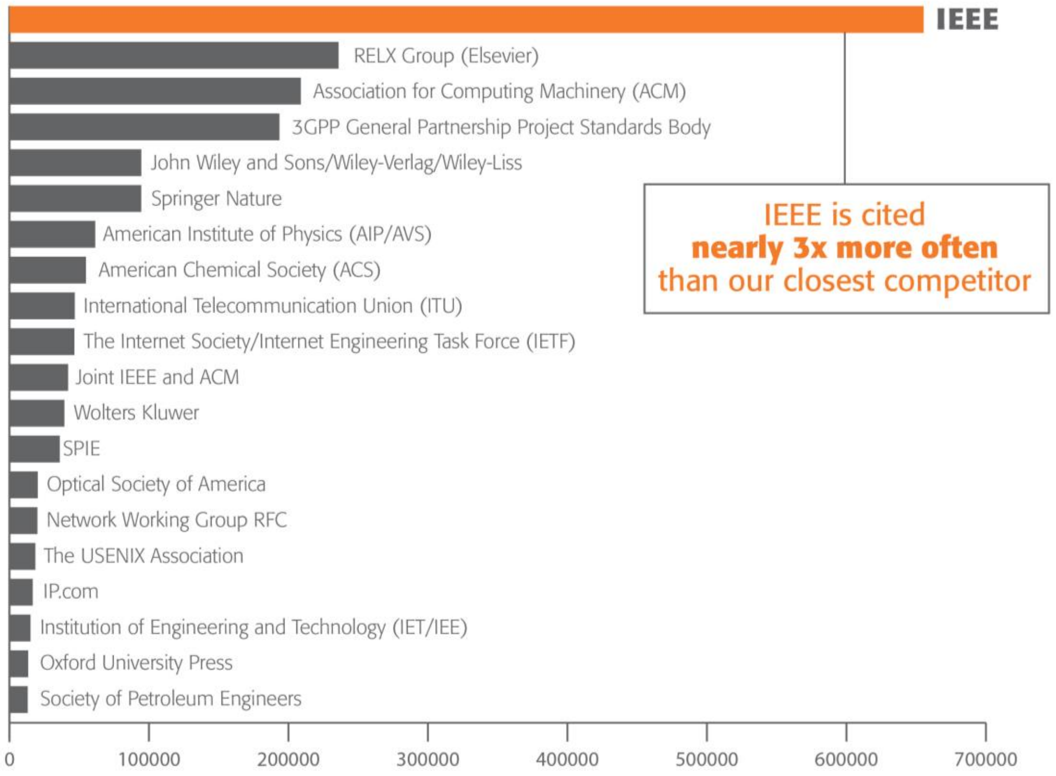

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Date: Wednesday, 4 September 2024

Time: 4:30 p.m. IST / 4:30 p.m. SLT / 5:00 p.m. BST

IEEE Authorship and Open Access Symposium: Tips and Best Practices to Get Published from IEEE Editors for Indonesia

Date: Wednesday, 19 September 2024

Time: 13:00 – 14:30 WIB

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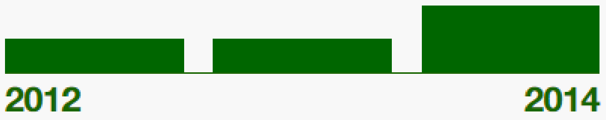
Publications by Year



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Article Home Page

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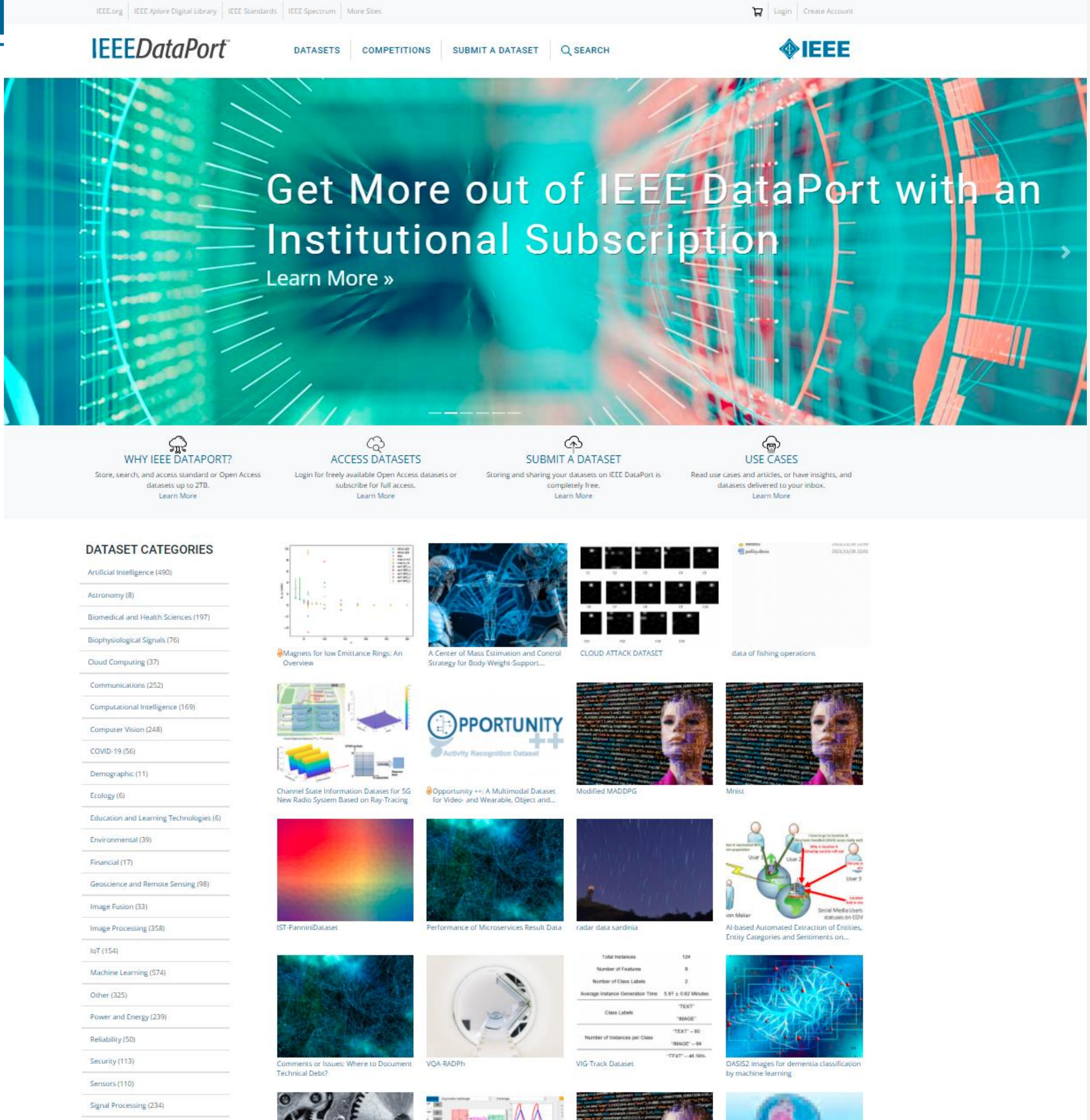

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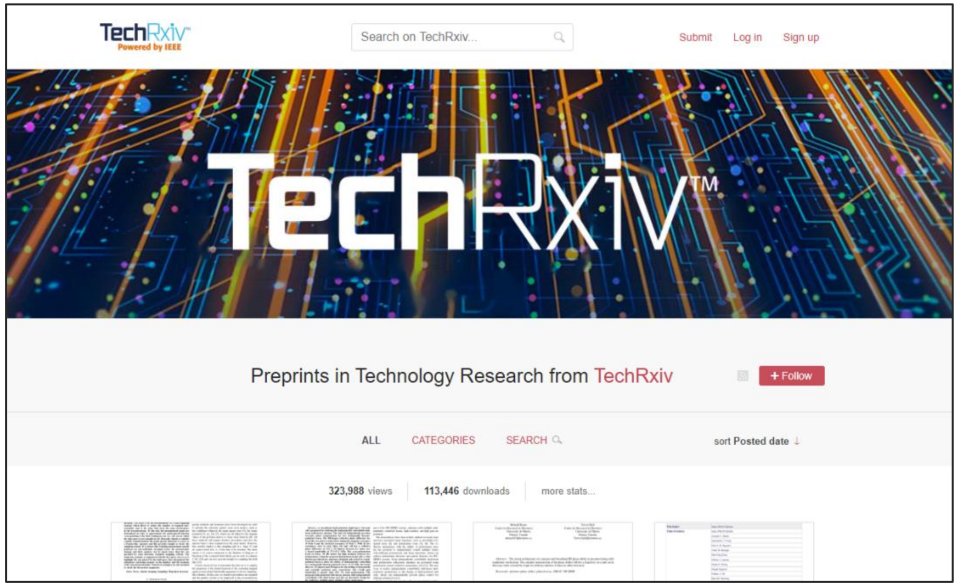

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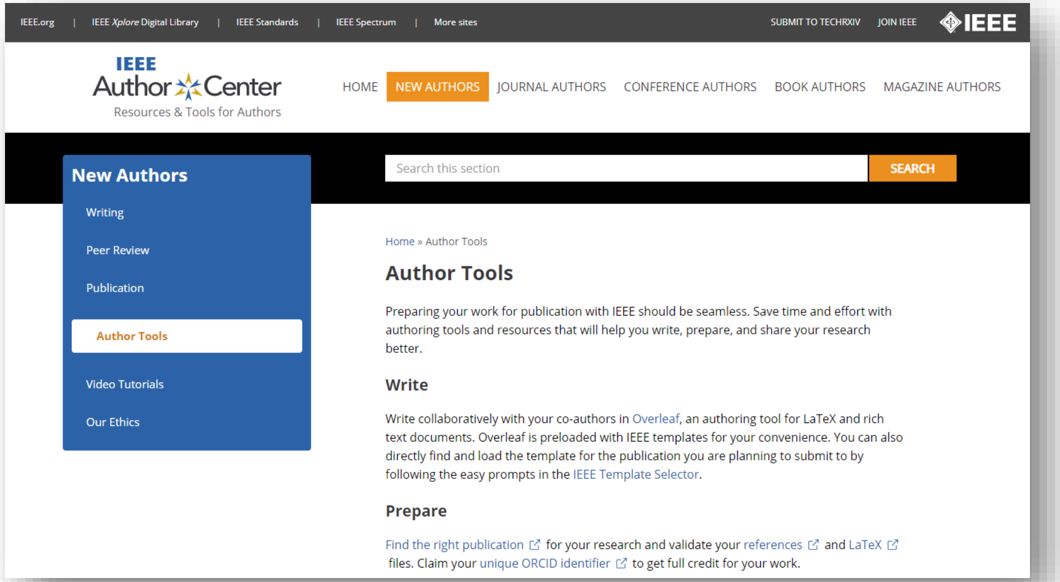

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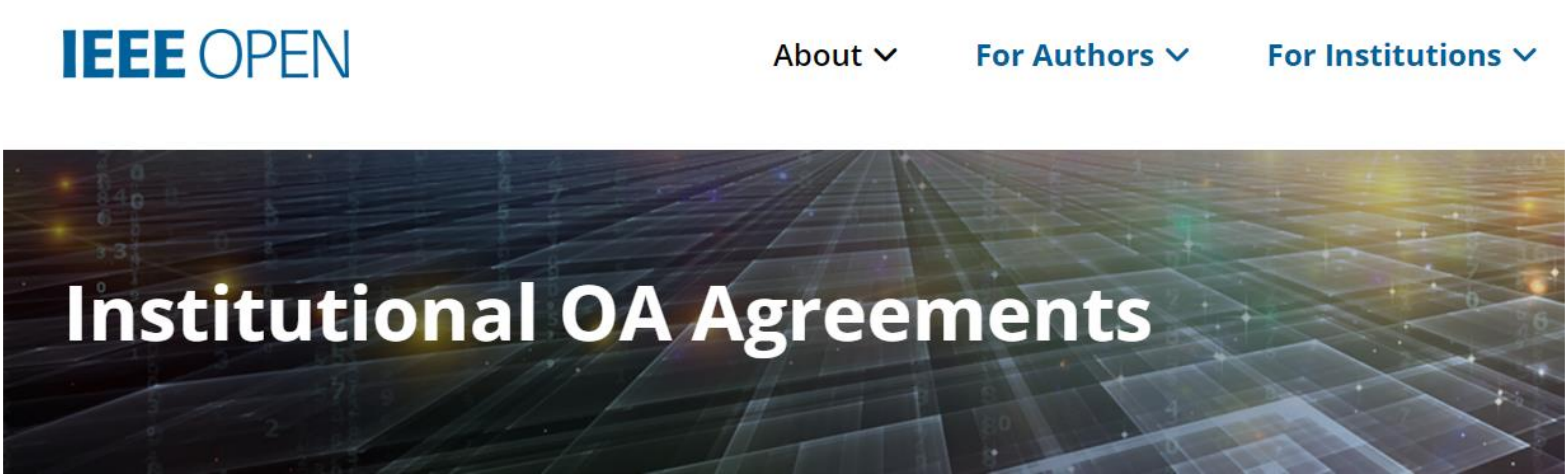

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Topics Covered

Publishing Choices

Choosing an Audience

Paper Structure

Ethics

Submission Guidelines

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Open Science Initiatives

Final Steps

Main Steps to Consider When Writing a Technical Paper

Publishing Choices

Choices
Publish your research where it will have the most impact

Scope & Readership
Subject/Topic scope
Audience type

Periodical Availability
Cost-Effectiveness
Open Access

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Publish

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
- Typically shorter than journal articles, with less detail and fewer references

Publish

IEEE Journal or IEEE Conference?

	IEEE Journals	IEEE Conferences
PRO	IEEE journals are cited 3 times more often in patent applications than other leading publisher's journals	IEEE Conference proceedings are recognized worldwide as the most vital collection of consolidated published articles in EE, computer science, and related fields
CON	A high percentage of articles submitted to any professional publication are rejected	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

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1 WRITING

2 PEER REVIEW

3 PUBLICATION

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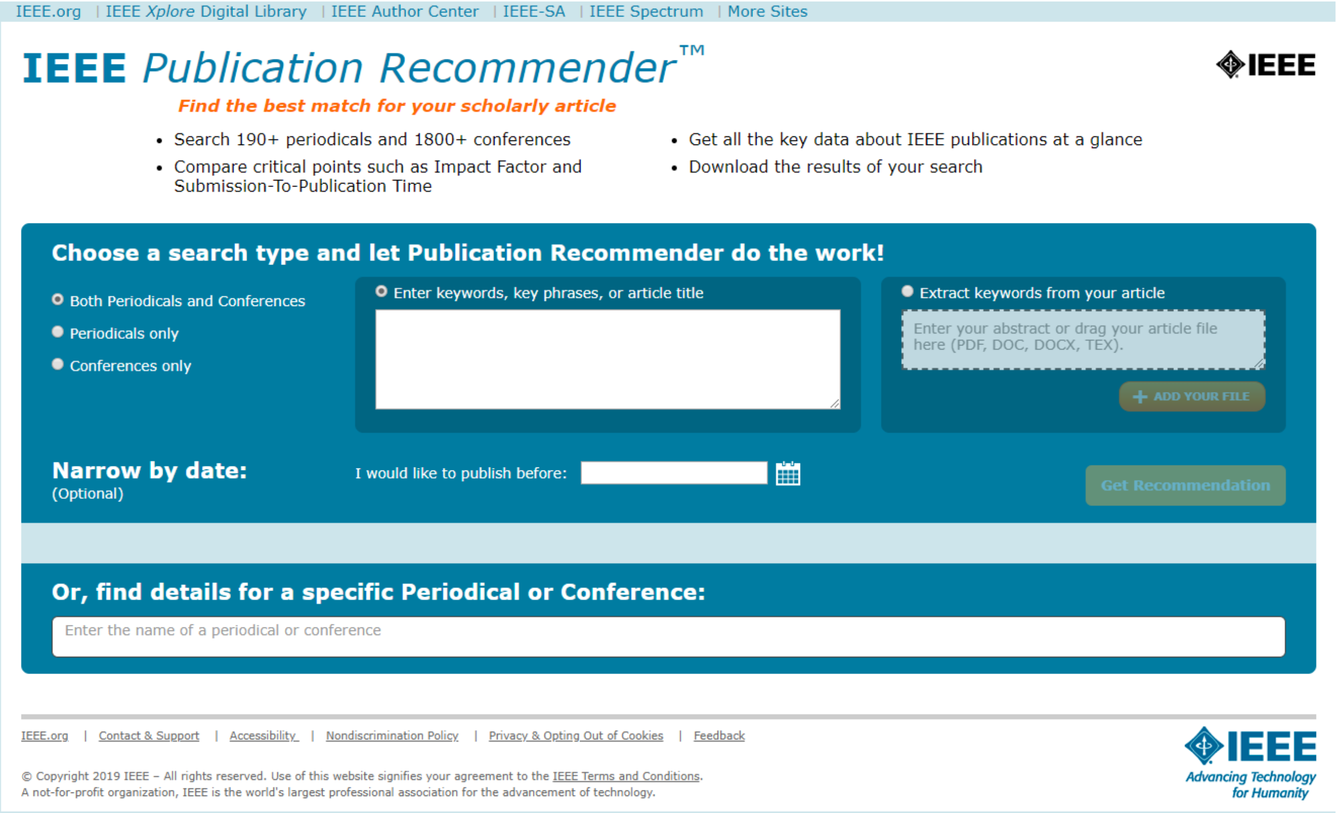

Tip:	Read the Aim & Scope of your target publication

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Aims & Scope

Publication Details

Subjects

- Aerospace
- Communication, Networking and Broadcast Technologies
- Robotics and Control Systems
- Signal Processing and Analysis

Previous Titles

IEEE

Audience

What IEEE Editors and Reviewers are Looking For

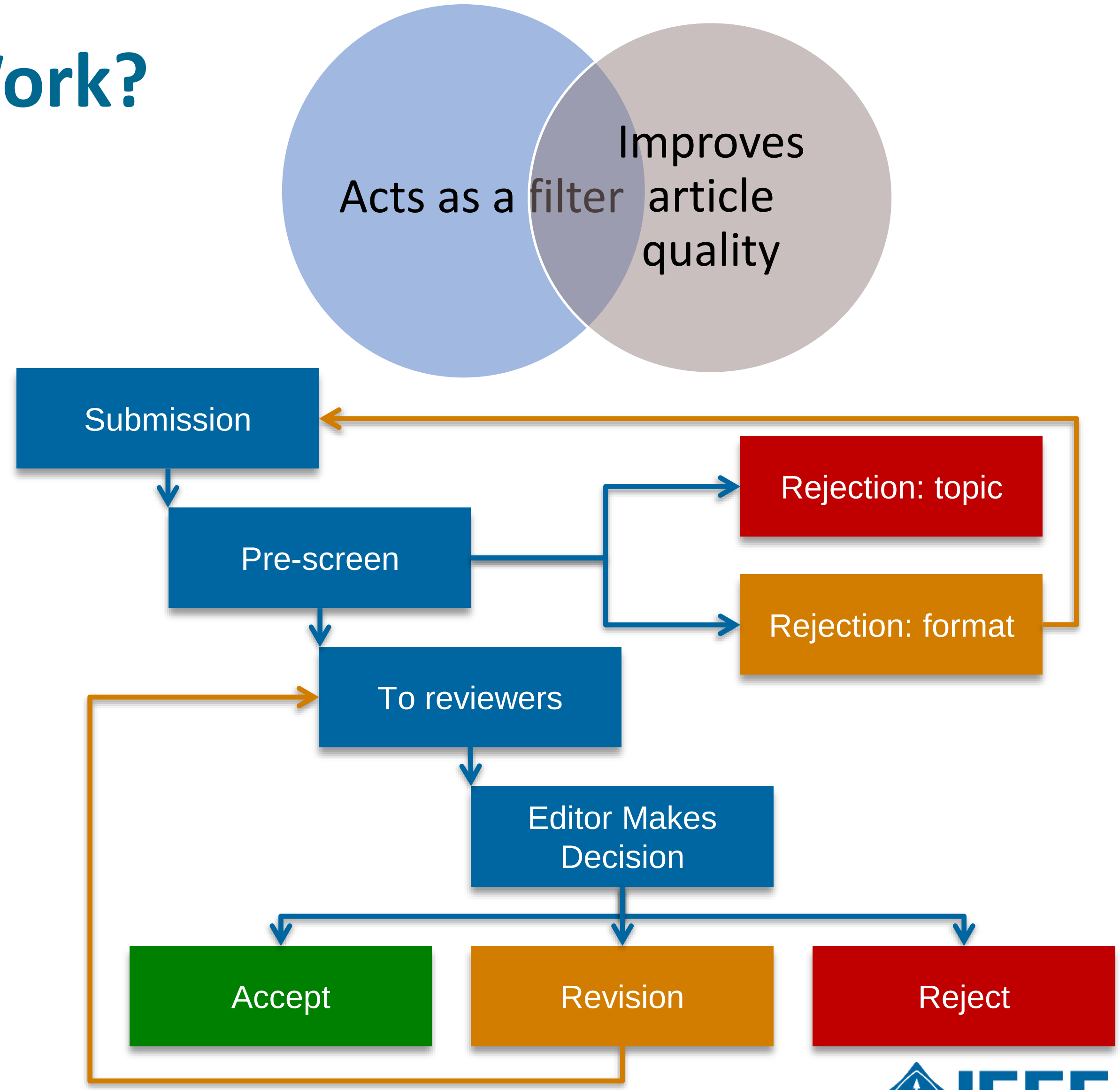
- Content that is appropriate, in scope and level
- Clearly written original material that addresses a new and important problem
- Extension of previously published work
- Valid methods and rationale
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject

IEEE

Audience

How Does the Review Process Work?

- Editor-in-Chief gets the paper after it goes through content match check (Similarity Check) and "IEEE Prohibited Authors List" check
- If the paper is in scope for the journal, it is assigned to an editor (associate editor)
- Editor assigns the paper to at least two reviewers (sometimes more)
- 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



Audience

Why IEEE Editors and Reviewers Reject Papers

- The content is not a good fit for the publication
- There are serious scientific flaws:
  - Inconclusive results or incorrect interpretation
  - Fraudulent research
- It is poorly written
- It does not address a big enough problem or advance the scientific field
- The work was previously published
- The quality is not good enough for the journal
- The paper does not make a strong enough case to convince reviewers

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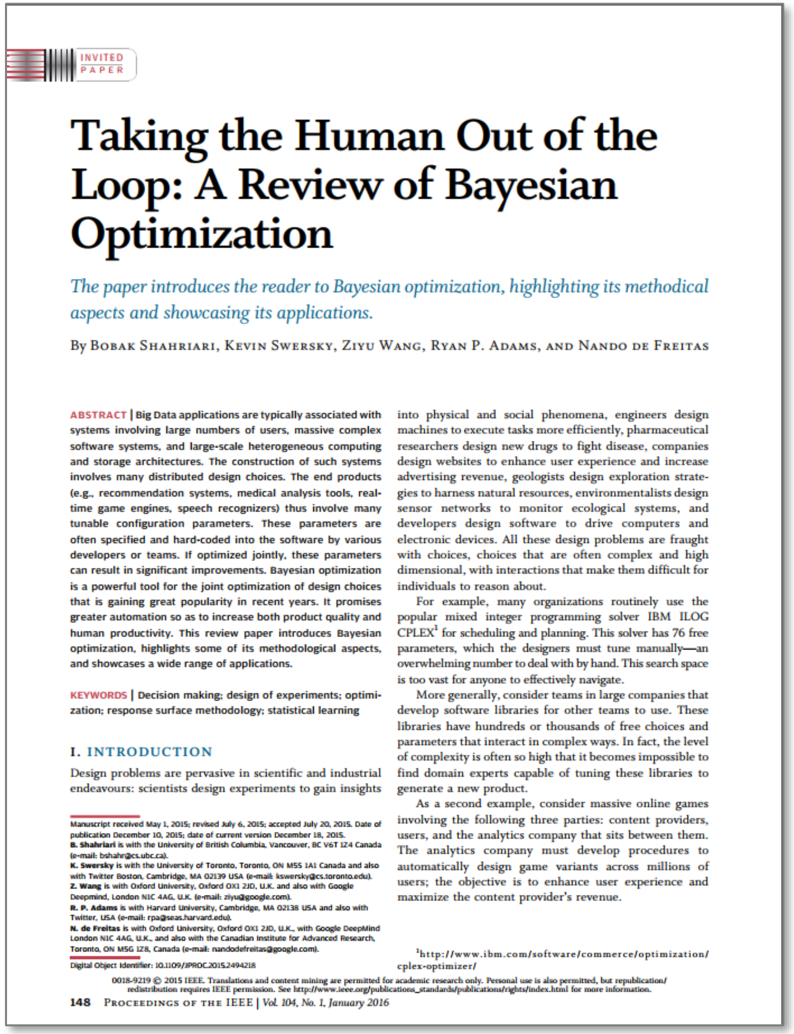
Paper Structure

Paper Structure

Elements of a manuscript

- Title
- Author(s)
- Abstract
- Introduction
- Approach
- Results
- Discussion
- Conclusions
- Acknowledgements
- References



INVITED PAPER

Taking the Human Out of the Loop: A Review of Bayesian Optimization

The paper introduces the reader to Bayesian optimization, highlighting its methodical aspects and showcasing its applications.

By Bobak Shahriari, Kevin Swersky, Ziyu Wang, Ryan P. Adams, and Nando de Freitas

ABSTRACT | Big Data applications are typically associated with systems involving large numbers of users, massive complex software systems, and large-scale heterogeneous computing and storage architectures. The construction of such systems involves many distributed design choices. The end products (e.g., recommendation systems, medical analysis tools, real-time game engines, speech recognizers) thus involve many tunable configuration parameters. These parameters are often specified and hard-coded into the software by various developers or teams. If optimized jointly, these parameters can result in significant improvements. Bayesian optimization is a powerful tool for the joint optimization of design choices that is gaining great popularity in recent years. It promises greater automation so as to increase both product quality and human productivity. This review paper introduces Bayesian optimization, highlights some of its methodological aspects, and showcases a wide range of applications.

KEYWORDS | Decision making; design of experiments; optimization; response surface methodology; statistical learning

I. INTRODUCTION

Design problems are pervasive in scientific and industrial endeavours: scientists design experiments to gain insights into physical and social phenomena, engineers design machines to execute tasks more efficiently, pharmaceutical researchers design new drugs to fight disease, companies design websites to enhance user experience and increase advertising revenue, geologists design exploration strategies to harness natural resources, environmentalists design sensor networks to monitor ecological systems, and developers design software to drive computers and electronic devices. All these design problems are fraught with choices, choices that are often complex and high dimensional, with interactions that make them difficult for individuals to reason about.

For example, many organizations routinely use the popular mixed integer programming solver IBM ILOG CPLEX[1] for scheduling and planning. This solver has 76 free parameters, which the designers must tune manually—an overwhelming number to deal with by hand. This search space is too vast for anyone to effectively navigate.

More generally, consider teams in large companies that develop software libraries for other teams to use. These libraries have hundreds or thousands of free choices and parameters that interact in complex ways. In fact, the level of complexity is often so high that it becomes impossible to find domain experts capable of tuning these libraries to generate a new product.

As a second example, consider massive online games involving the following three parties: content providers, users, and the analytics company that sits between them. The analytics company must develop procedures to automatically design game variants across millions of users; the objective is to enhance user experience and maximize the content provider's revenue.

Manuscript received May 1, 2015; revised July 6, 2015; accepted July 20, 2015. Date of publication December 10, 2015; date of current version December 18, 2015.
B. Shahriari is with the University of British Columbia, Vancouver, BC V6T 1Z4 Canada (e-mail: bshahr@cs.ubc.ca).
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Digital Object Identifier: 10.1109/JPROC.2015.2494218

[1] http://www.ibm.com/software/commerce/optimization/cplex-optimizer/

Paper Structure

Title

An effective title should…

- Be specific, concise, and descriptive
- Answer the reader's question: *Is this article relevant to me?*
- Think about what you would search for if you were looking for articles related to your research. Be sure to incorporate those keywords into your title.
- Grab the reader's attention
- Describe the content of a paper using the fewest possible words
  - Use important keywords—put as much time into your keywords as your paper, as that is how it will usually be found
  - Avoid jargon

Good Title

vs.

Bad Title

Paper Structure

Title – Best Practices

✓ *A Human Expert-based Approach to Electrical Peak Demand Management*

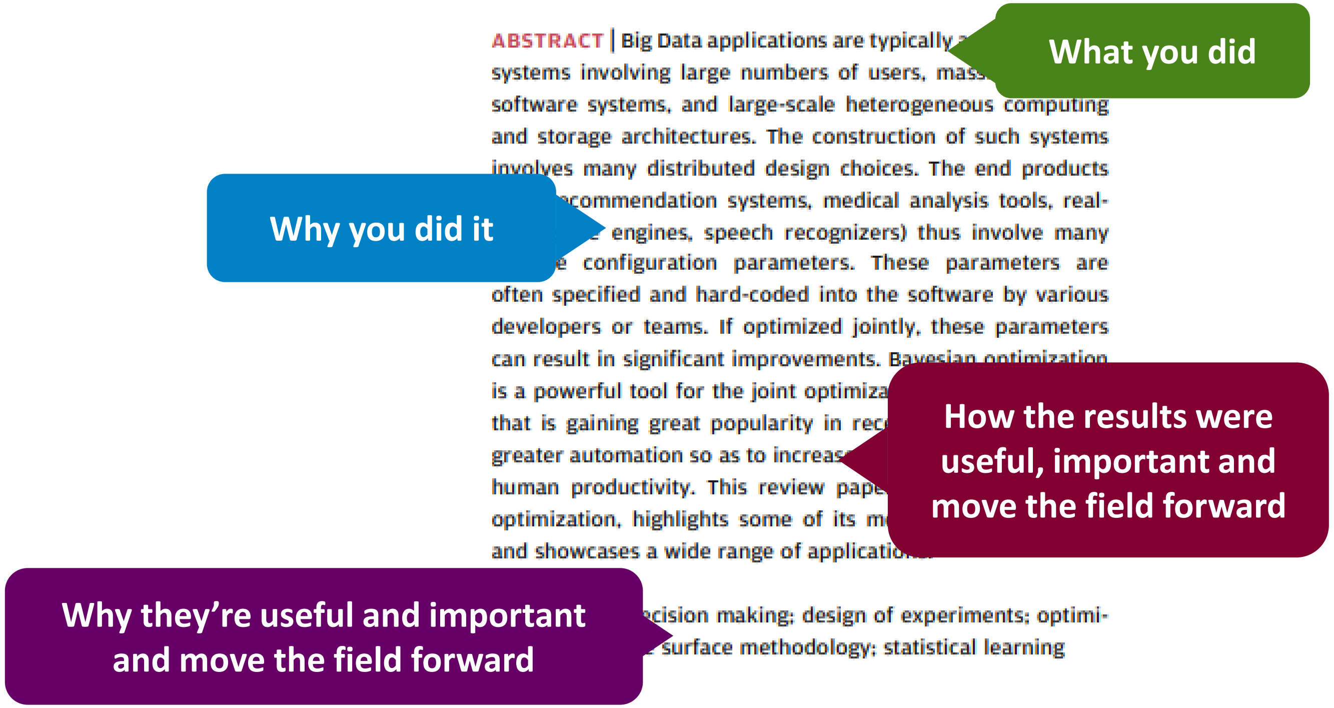
VS

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

Paper Structure

Abstract

- Concise summary of research conducted: results obtained and conclusions reached
- A “stand-alone” condensed version of the article
- 250 words or less
- Written in the past tense although general factual statements can be written in present tense
- Uses keywords and index terms



B A A R C

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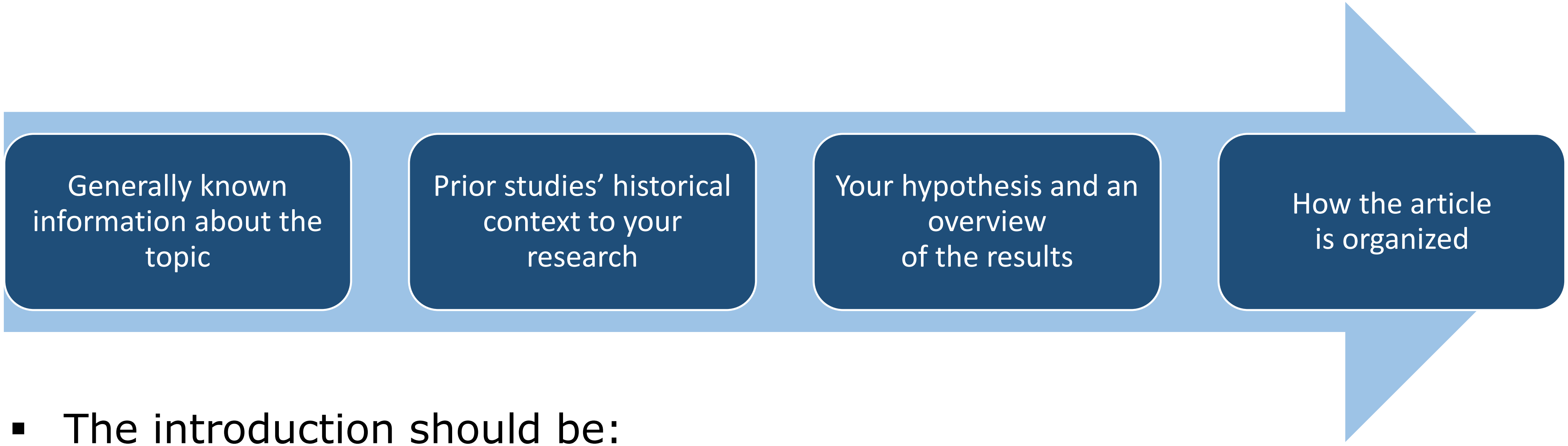
Paper Structure

Introduction

- A description of the problem you researched
- It should move step by step through the following:



- The introduction should be:
  - Specific, not too broad or vague
  - About 2 pages
  - Written in the present tense

S – N - S

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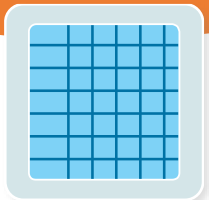
Paper Structure

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 used 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

IEEE

Paper Structure

Results/Discussion

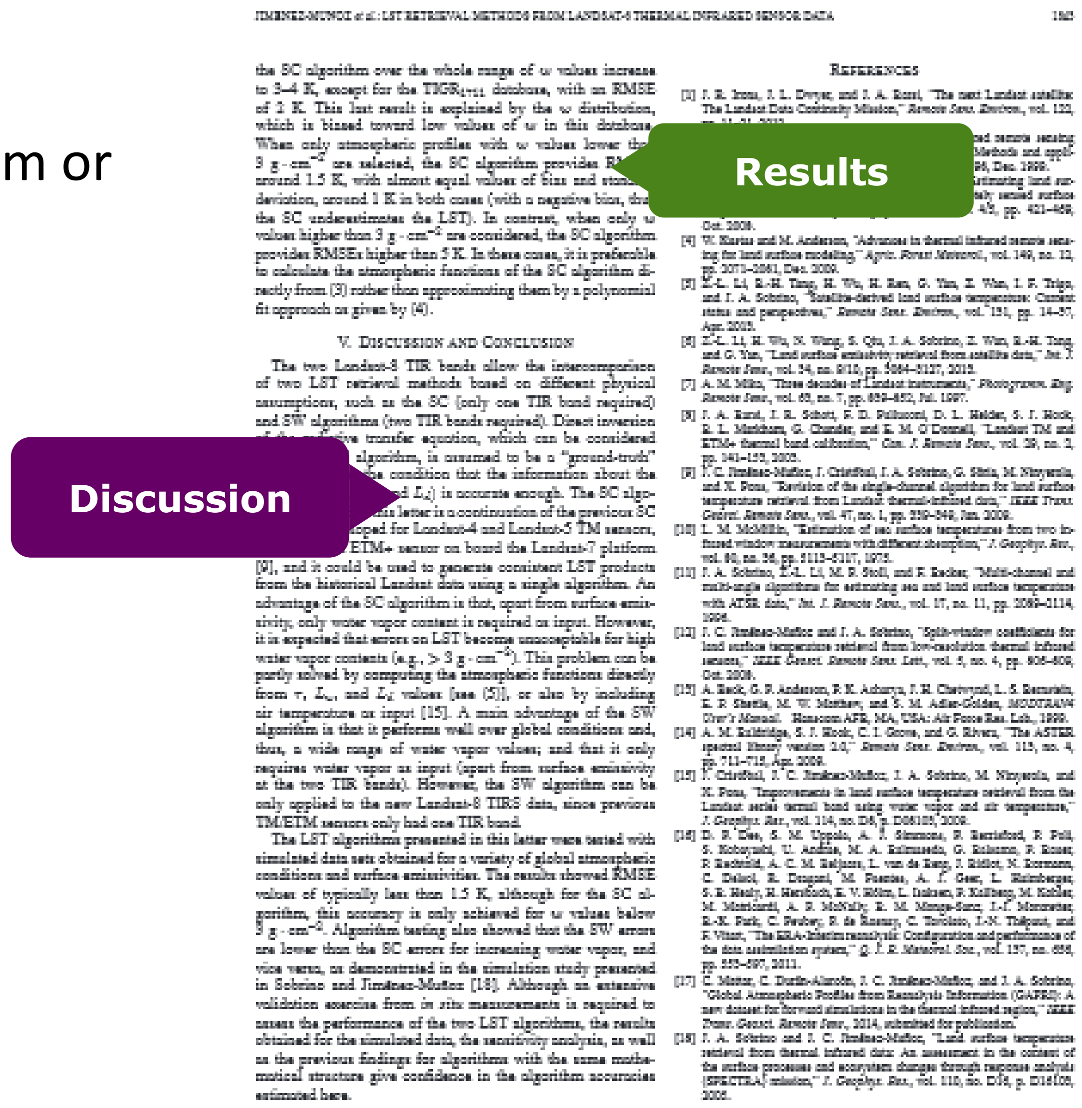
Demonstrate that you solved the problem or made significant advances

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 and professionals



Paper Structure

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

Paper Structure

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
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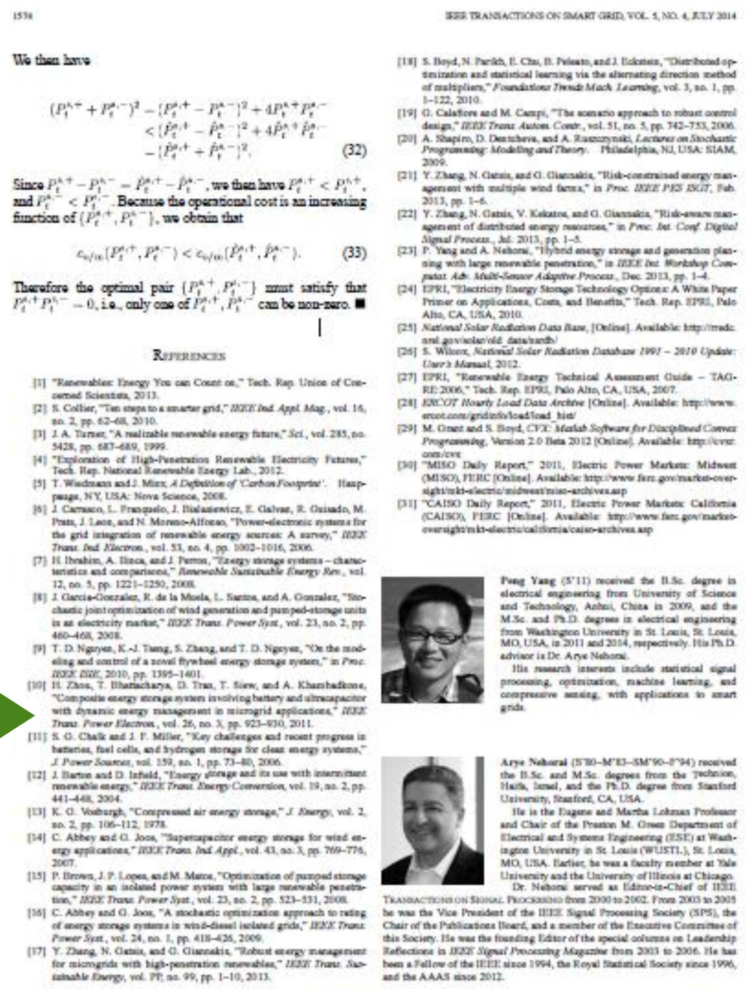

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