



IEEE Authorship and Open Access Symposium

Best Practices to Get Published to Increase the
Exposure and Impact of Your Research

29 September 2021

Welcome and thank you for joining! We will be getting started in just a few minutes.

Please use the Q&A function for questions.

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A Few Quick Notes Before We Get Started

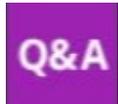
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Resource List



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IEEE Authorship and Open Access Symposium

Best Practices to Get Published and Increase the Impact of Your Research

- ▶ Tips and best practices from an author and editor
- ▶ What editors and reviewers look for in submissions
- ▶ Common reasons why papers are rejected
- ▶ Ethics in publishing
- ▶ How to select the right publication for your submission
- ▶ Reasons to consider open access publishing
- ▶ Research strategies using IEEE *Xplore* Digital Library
- ▶ Authorship tools available from IEEE
- ▶ Open access options available for authors and institutions
- ▶ Live Q&A: Ask the Experts



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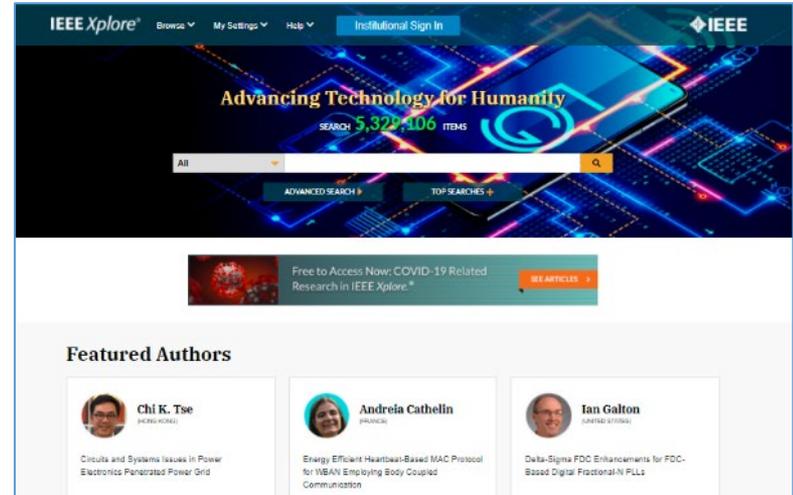
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- Hundreds of thousands of downloads to date and growing
- IEEE has added hundreds of articles since March 2020 and continues to update the content regularly.



A screenshot of an IEEE Spectrum article titled "This Is How We'll Vaccinate the World Against COVID-19". The article is by W. Wayt Gibbs. It discusses the challenges of manufacturing and distributing enough coronavirus vaccines to protect humanity. A "Top Tech 2021" badge is present. The article mentions that both great successes and setbacks have occurred, and that in November, the pharmaceutical giant Pfizer and the much younger biotech company Moderna both reported that their vaccines were about 95 percent effective in preventing cases of COVID-19. The news came just six months after the virus was first isolated and sequenced in a lab in China. It also notes that as of early December, 25 other candidate vaccines were making their way through human clinical trials, according to the World Health Organization. Thirteen of those vaccines were already in the final stages of development. The article includes a "View Article" link and a "Read more" link. The image shows several vials of COVID-19 vaccines lined up on a tray. To the right of the article is a graphic of a globe surrounded by a maze, with a path leading to the globe, symbolizing the complex journey of vaccine development.

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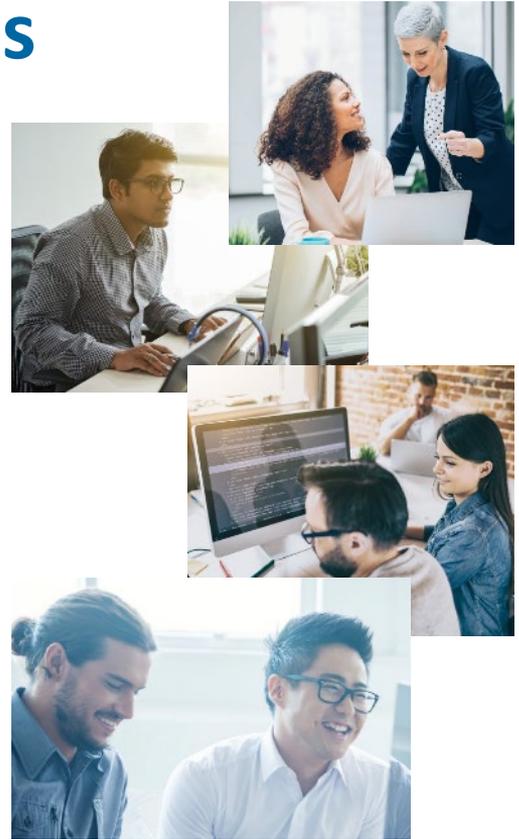
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Images: Attendees of the IEEE Future Leaders Forum 2018 - IEEE USA's two-day flagship event

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- IEEE is dedicated to continuing to be the destination of choice for authors and to serve the author and research community
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- **IEEE continues to provide more options** and choices to support the work and needs of all authors and researchers



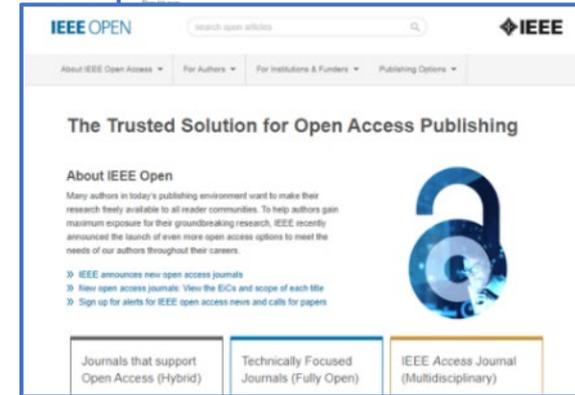
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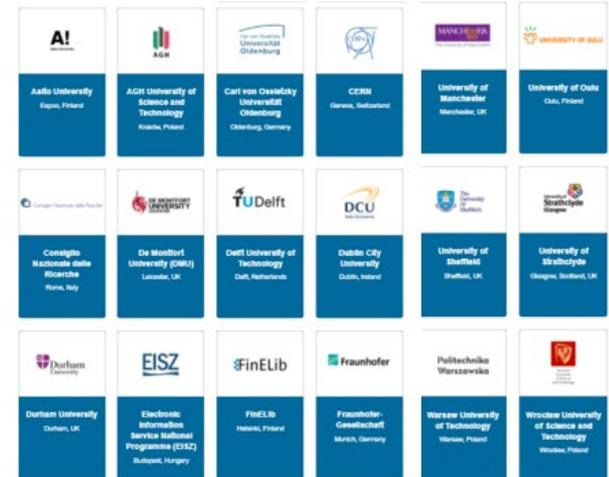
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Our First Speaker...



Dr. Saifur Rahman

Joseph R. Loring Professor of Electrical and Computer Engineering
Virginia Polytechnic Institute and State University, United States

Professor Saifur Rahman is the founding director of the Advanced Research Institute at Virginia Polytechnic Institute and State University, USA where he is the Joseph R. Loring Professor of Electrical and Computer Engineering. He also directs the Center for Energy and the Global Environment. He is a Life Fellow of the IEEE and an IEEE Millennium Medal winner. He was the president of the IEEE Power and Energy Society (PES) for 2018 and 2019. He was the founding editor-in-chief of the IEEE Electrification Magazine and the IEEE Transactions on Sustainable Energy. He has served as the chair of the US National Science Foundation Advisory Committee for International Science and Engineering. He has published over 150 journal papers and has made over six hundred conference and invited presentations. In 2006, he served on the IEEE Board of Directors as the Vice President for Publications. He is a distinguished lecturer for the IEEE Power & Energy Society.



About Our Speaker

I was the vice president of publications for the Power & Energy Society for five years and launched the Power and Energy Technology and Systems (PETS) open access journal focused on practice-oriented papers. As of 2020 this Journal has been renamed as the Open Access Journal for Power & Energy.



Publishing Choices

Publish

Pick Your Target

- ▶ Select just **one** target publication; concurrent submissions are unethical
- ▶ Start by looking at the publications cited in **your references**
- ▶ **Ask your supervisor** or other colleagues experienced in publishing for recommendations
- ▶ Read the **Aims & Scope** of your potential targets and publications therein to ensure your article is a good fit
- ▶ Check out the **IEEE Publication Recommender** in the IEEE Author Center

The screenshot shows the IEEE Transactions on Fuzzy Systems journal page. At the top, there is a breadcrumb trail: "Browse Journals & Magazines > IEEE Transactions on Fuzzy Sys...". The journal title "IEEE Transactions on Fuzzy Systems" is prominently displayed in green. To the right of the title are three icons: "Submit Manuscript" (a blue square with a white plus sign), "Add Title To My Alerts" (a blue square with a white plus sign), and an RSS feed icon. Below the title is a navigation bar with tabs for "Home", "Popular", "Early Access", "Current Issue", "All Issues", and "About Journal". The "About Journal" tab is currently selected. Below the navigation bar are three green boxes containing key metrics: "8.759 Impact Factor", "0.01844 Eigenfactor", and "2.05 Article Influence Score". Below these metrics is a section titled "Aims & Scope" with a downward arrow. On the left side of the "Aims & Scope" section, there is a list of "Author Resources" including "Submission Guidelines", "Submit Manuscript", and "Author Center". The main text of the "Aims & Scope" section describes the journal's focus on high-quality technical papers in the theory, design, and application of fuzzy systems, and encourages readers to submit papers that disclose significant technical knowledge and applications.

More on this topic in the next presentation...

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



PRO

IEEE journals represent some of the top cited journals in the field according to annual Journal Citation reports and are cited 3 times more often in patent applications than other leading publisher's journals*



CON

A high percentage of articles submitted to any professional publication are rejected

IEEE Conferences

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

*Source: www.ieee.org/citations, www.ieee.org/patentcitations

Publish

Finding the right IEEE publication or IEEE conference

IEEE has approx. **200 unique publications** covering a wide range of technical areas

- Review the journal listings
 - Who reads it
 - What they publish
 - What types of articles are they looking for?

IEEE publishes over **1,600 leading-edge conference proceedings** every year

- Review the conference calendar
 - Find a good match for your research subject matter
 - Ensure you are available to present

More on this topic in the next presentation...

Some reasons to consider publishing gold open access:



- Greater visibility
- Rapid review
- Submission to publication timeframe
- Scope of work
- Funder mandates or publishing policies of your institution



Submissions Process and Peer Review

What is peer review and how does it work?

Peer review is the system used to assess the quality of a manuscript before it is published.

Peer review is vital to the quality of published research. Your submitted article will be evaluated by at least two independent reviewers. Feedback from the peer reviewers will contribute to the editor's decision on whether to accept or reject your article for publication.

Independent researchers in the relevant research area assess submitted manuscripts for originality, validity and significance to help editors determine whether a manuscript should be published in their journal.



Checklist for Submitting Your Article for Peer Review

Get ready for peer review. IEEE has created a checklist for submitting your article to ensure you don't miss any important steps.



While preparing to submit your article for peer review make sure to:

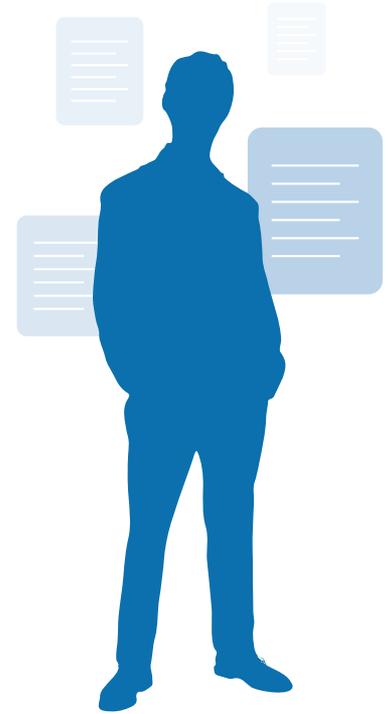
- Review the submission guidelines for your target publication to ensure your article meets all requirements.
- Agree on who will serve as the article's corresponding author if your article has multiple authors.
- Check that you have all necessary files.
- Get an [Open Researcher and Contributor ID \(ORCID\)](#) if you do not have one already.

View the Checklist at the IEEE Author Center:

<https://journals.ieeeauthorcenter.ieee.org/submit-your-article-for-peer-review/checklist-for-submitting-your-article-for-peer-review/>

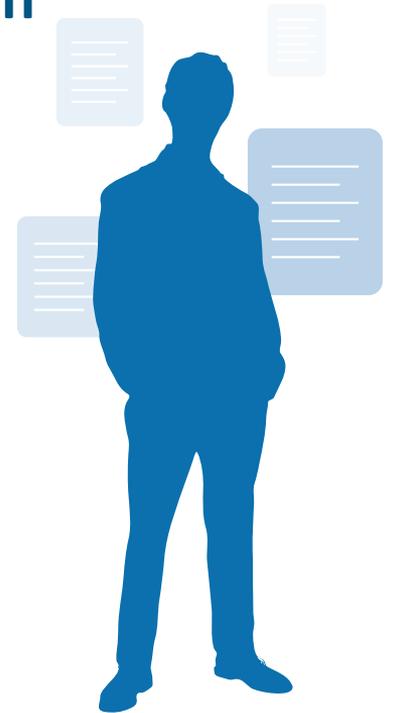
Novelties editors and reviewers look for in submissions

- New ideas
- New tools
- New methodologies
- New applications
- Cross-area domains



Characteristics IEEE editors and reviewers focus on

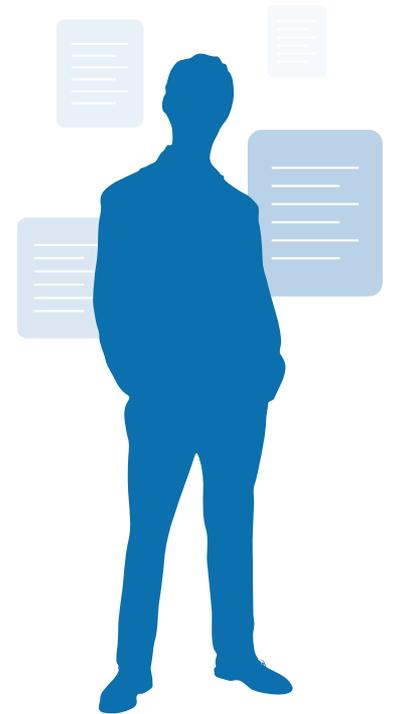
- Content that is appropriate, in scope and level
- Clearly written original material that addresses a new and important problem
- Extension of previously published work
- Valid methods and rationale
- Illustrations, tables and graphs that support the text
- References that are current and relevant to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



What else are IEEE editors and reviewers are looking for?

During the peer review process, editors, and reviewers look for:

- **Scope:** Is the article appropriate for this publication?
- **Validity:** Is the study well designed and executed?
- **Data:** Are the data reported, analyzed, and interpreted correctly?
- **Clarity:** Are the ideas expressed clearly, concisely, and logically?
- **Compliance:** Are all ethical and journal requirements met?
- **Advancement:** Is this a significant contribution to the field?
- **Novelty:** Is this original material distinct from previous publications?



Audience

Why IEEE editors and reviewers reject papers

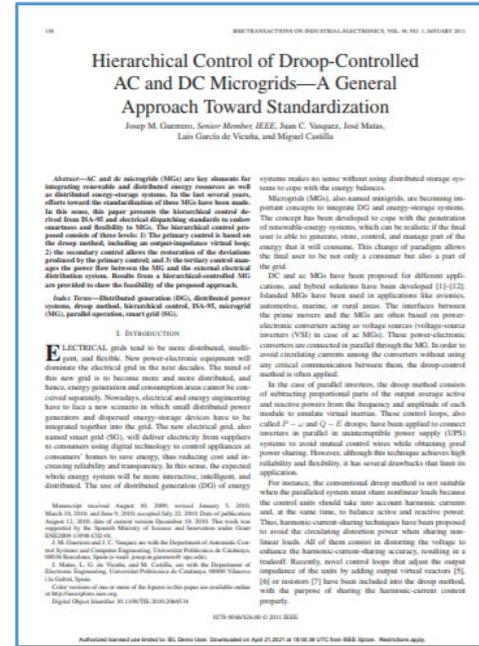
- The content is not a good fit for the publication
- There are serious scientific flaws:
 - Inconclusive results or incorrect interpretation
 - Fraudulent research
- It is poorly written
- It does not address a big enough problem or advance the scientific field
- The work was previously published
-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



Paper Structure

Paper structure (introduction, results, conclusion)

- Title
- Abstract
- Introduction (Motivation, context, objectives)
- Existing Theories & Previous Work (Literature Review)
- Methods
- Findings
- Conclusion
- Acknowledgments
- References



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 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

Hierarchical Control of Droop-Controlled AC and DC Microgrids—A General Approach Toward Standardization

Publisher: IEEE

Cite This

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Josep M. Guerrero ; Juan C. Vasquez ; José Matas ; Luis García de Vicuna ; Miguel Castilla All Authors

2637
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What you did

Why you did it

How the results were useful, important and move the field forward

Abstract:

AC and dc microgrids (MGs) are key elements for integrating renewable and distributed energy resources as well as distributed energy-storage systems. In the last several years, efforts toward the standardization of these MGs have been made. In this sense, this paper presents the hierarchical control derived from ISA-95 and electrical dispatching standards to endow smartness and flexibility to MGs. The hierarchical control proposed consists of three levels: 1) The primary control is based on the droop method, including an output-impedance virtual loop; 2) the secondary control allows the restoration of the deviations produced by the primary control; and 3) the tertiary control manages the power flow between the MG and the external electrical distribution system. Results from a hierarchical-controlled MG are provided to show the feasibility of the proposed approach.

Published in: IEEE Transactions on Industrial Electronics (Volume: 58 , Issue: 1, Jan. 2011)

Page(s): 158 - 172

INSPEC Accession Number: 11692753

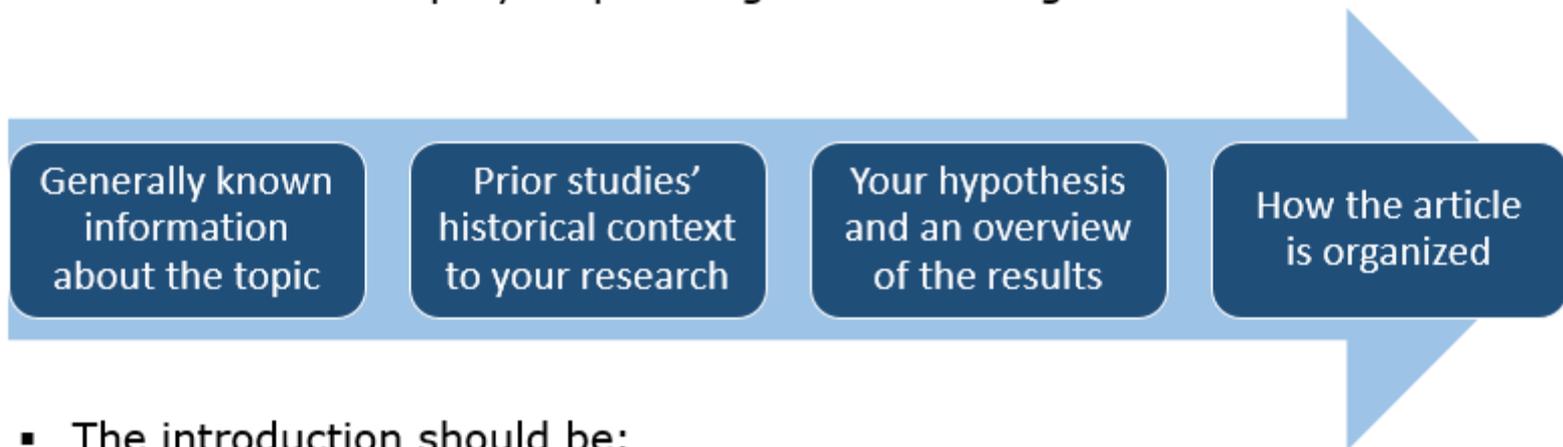
Date of Publication: 12 August 2010

DOI: 10.1109/TIE.2010.2066534

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

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



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

the SC algorithm over the whole range of w values increase to 3–4 K, except for the TIGR₁₁₁₁ database, with an RMSE of 2 K. This last result is explained by the w distribution, which is biased toward low values of w in this database. When only atmospheric profiles with w values lower than $3 \text{ g} \cdot \text{cm}^{-2}$ are selected, the SC algorithm provides RMSE around 1.5 K, with almost equal values of bias and standard deviation, around 1 K in both cases (with a negative bias, for the SC underestimates the LST). In contrast, when only w values higher than $3 \text{ g} \cdot \text{cm}^{-2}$ are considered, the SC algorithm provides RMSEs higher than 2 K. In these cases, it is preferable to calculate the atmospheric functions of the SC algorithm directly from (3) rather than approximating them by a polynomial fit approach as given by (4).

V. DISCUSSION AND CONCLUSION

The two Landsat-8 TIR bands allow the intercomparison of two LST retrieval methods based on different physical assumptions, such as the SC (only one TIR band required) and SW algorithms (two TIR bands required). Direct inversion of the radiative equation, which can be considered as a “ground-truth” algorithm, is assumed to be a “ground-truth” condition that the information about the surface emissivity and L_d is accurate enough. The SC algorithm in this letter is a continuation of the previous SC adapted for Landsat-4 and Landsat-5 TM sensors, and the SW algorithm is based on the Landsat-7 platform [9], and it could be used to generate consistent LST products from the historical Landsat data using a single algorithm. An advantage of the SC algorithm is that, apart from surface emissivity, only water vapor content is required as input. However, it is expected that errors on LST become unacceptable for high water vapor contents (e.g., $> 3 \text{ g} \cdot \text{cm}^{-2}$). This problem can be easily solved by computing the atmospheric functions directly from v , L_d , and L_d values (see [9]), or also by including air temperature as input [15]. A main advantage of the SW algorithm is that it performs well over global conditions and, thus, a wide range of water vapor values; and that it only requires water vapor as input (apart from surface emissivity at the two TIR bands). However, the SW algorithm can be only applied to the new Landsat-8 TIRS data, since previous TM/TIRS sensors only had one TIR band.

The LST algorithms presented in this letter were tested with simulated data sets obtained for a variety of global atmospheric conditions and surface emissivities. The results showed RMSE values of typically less than 1.5 K, although for the SC algorithm, this accuracy is only achieved for w values below $3 \text{ g} \cdot \text{cm}^{-2}$. Algorithm testing also showed that the SW errors are lower than the SC errors for increasing water vapor content and vice versa, as demonstrated in the simulation study presented in Sobrino and Jiménez-Muñoz [18]. Although an extensive validation exercise from *in situ* measurements is required to assess the performance of the two LST algorithms, the results obtained for the simulated data, the sensitivity analysis, as well as the previous findings for algorithms with the same mathematical structure give confidence in the algorithm accuracies estimated here.

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Results

Discussion

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Conclusion

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We then have

$$\begin{aligned} & (P_1^{t+1} + P_2^{t+1})^2 - (P_1^t + P_2^t)^2 + 4P_1^{t+1}P_2^{t+1} \\ & < (P_1^t + P_2^t)^2 + 4P_1^tP_2^t \\ & - (P_1^{t+1} + P_2^{t+1})^2 \end{aligned} \quad (32)$$

Since $P_1^{t+1} - P_1^t = -P_2^{t+1} - P_2^t$, we then have $P_1^{t+1} < P_1^t$, and $P_2^{t+1} < P_2^t$. Because the operational cost is an increasing function of (P_1^t, P_2^t) , we obtain that

$$c_{opt}(P_1^{t+1}, P_2^{t+1}) < c_{opt}(P_1^t, P_2^t). \quad (33)$$

Therefore the optimal pair (P_1^{t+1}, P_2^{t+1}) must satisfy that $P_1^{t+1}P_2^{t+1} = 0$, i.e., only one of P_1^{t+1}, P_2^{t+1} can be non-zero. ■

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Sonja Grgic (Member, IEEE) received the B.S., M.S., and Ph.D. degrees in electrical engineering from the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia, in 1989, 1992, and 1996, respectively. She is currently a Professor in multimedia technologies and communication systems with the Faculty of Electrical Engineering and Computing, University of Zagreb. Her research interests include image processing and machine learning, picture quality evaluation, video communication technologies, and image forensics. (Based on [document published on 12 August 2021](#)).

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Palenius, Torgny; Baldemair, Robert; Hessler, Martin; Karipidis, Eleftherios; Lincoln, Bo; Semaan, Eliane

Abstract:

In an aspect, a wireless device with a plurality of transmitter chains that can be selectively used to transmit a beam-formed signal determines a targeted receive power for the beam-formed signal, with respect to a target receiving device. The wireless device selects a number of the plurality of transmitter chains for forming the beam-formed signal, based on the targeted receive power and based on an estimated power consumption for each of the plurality of transmitter chains. The selection is performed so as to minimize a total power consumption, given the estimated power consumptions. The wireless device transmits a beam-formed signal, using the selected number of the plurality of transmitter chains.

Assignee:

TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

Patent Classes:

Current International Class:
H04L0122400000. H04B0070600000.

? Fettweis, "Impact of cyclic
orks", *Standards for*
-17, 2017.

of a wireless transmission
7-1401, 2014.

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Biography

Alvydas Lisauskas (Member, IEEE) received the Diploma in physics from Vilnius University, Vilnius, Lithuania, in 1995, and the Ph.D. degree from the Royal Institute of Technology, Stockholm, Sweden, in 2001. In 2002, he was a Postdoctor with the Ultrafast Spectroscopy and Terahertz Physics Group, Goethe University Frankfurt, Frankfurt, Germany, working on novel semiconductor devices for THz applications. Since 2014, he has been a Professor with Vilnius University and a Leading Researcher with the Center for Physical Science and Technology, Vilnius, Lithuania. Since February 2019, he has been a Group Leader on Terahertz Electronics with the Center for Terahertz Research and Applications, Institute of High Pressure Physics PAS, Warsaw, Poland. His research interests include terahertz electronics, design and modeling of semiconductor devices, and terahertz imaging techniques. *(Based on document published on 15 October 2020).* [Show Less](#)

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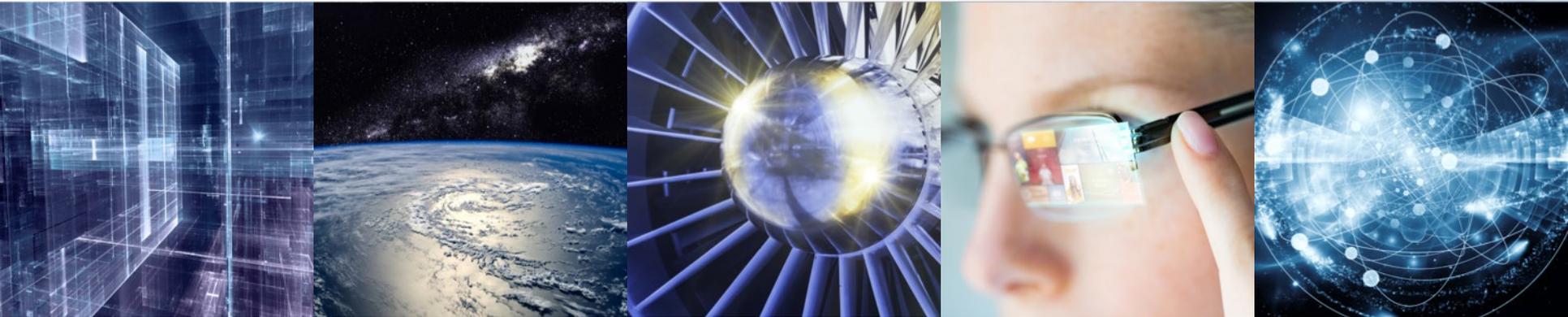


Judy Brady

IEEE Area Manager for Europe

Judy Brady is the IEEE Area Manager for Europe with primary responsibility for IEEE's institutional customers. Judy has been with IEEE for more than 25 years and in the marketing and public relations field for more than 35 years working primarily for not-for-profit companies and in the STM area. In her time with IEEE, Judy has been responsible for the marketing of education and training resources, IEEE books, and since 1997, IEEE's online collections with an ever-increasing emphasis on open access publishing. She holds a BA in Journalism and Communications from Rutgers University, NJ, USA.





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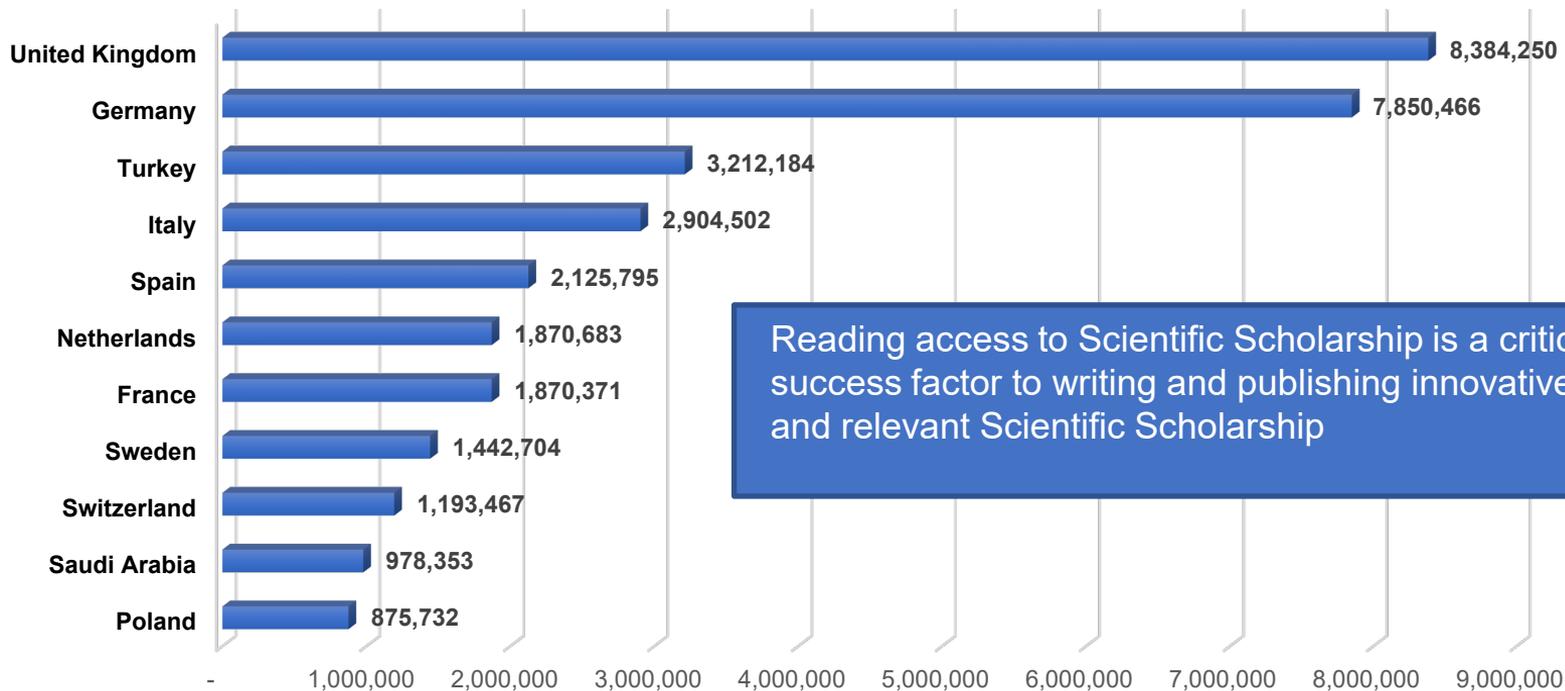
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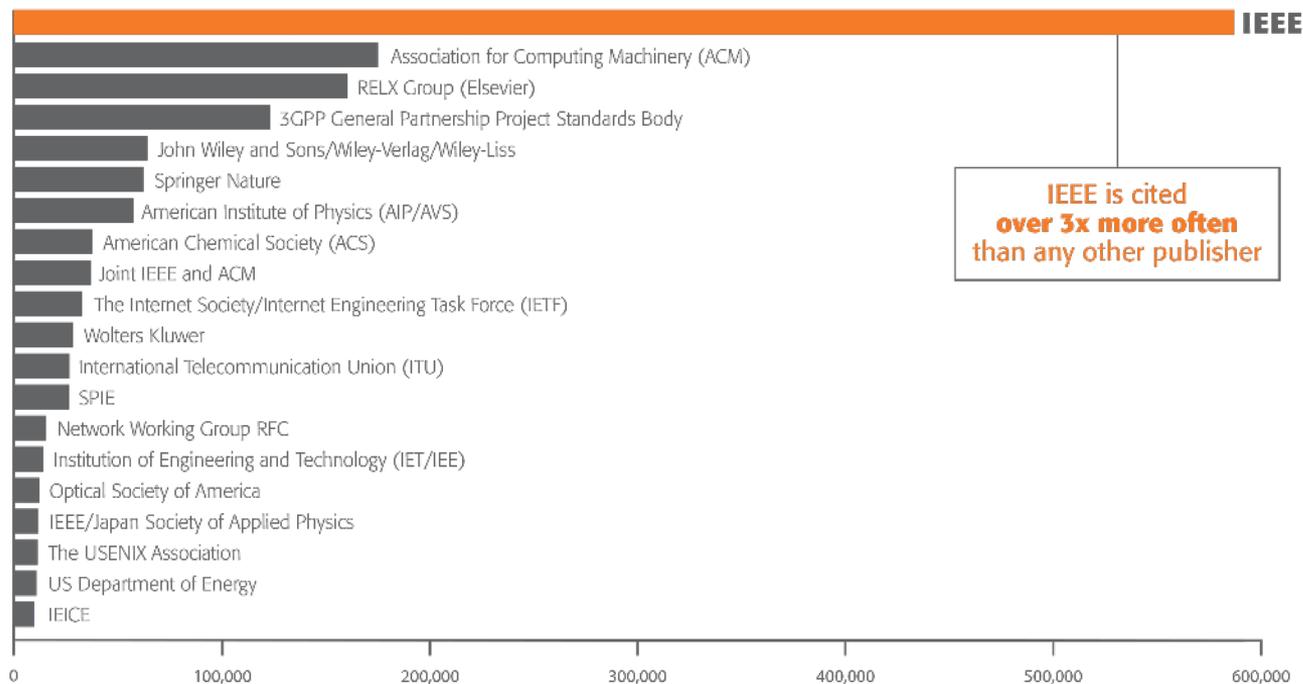
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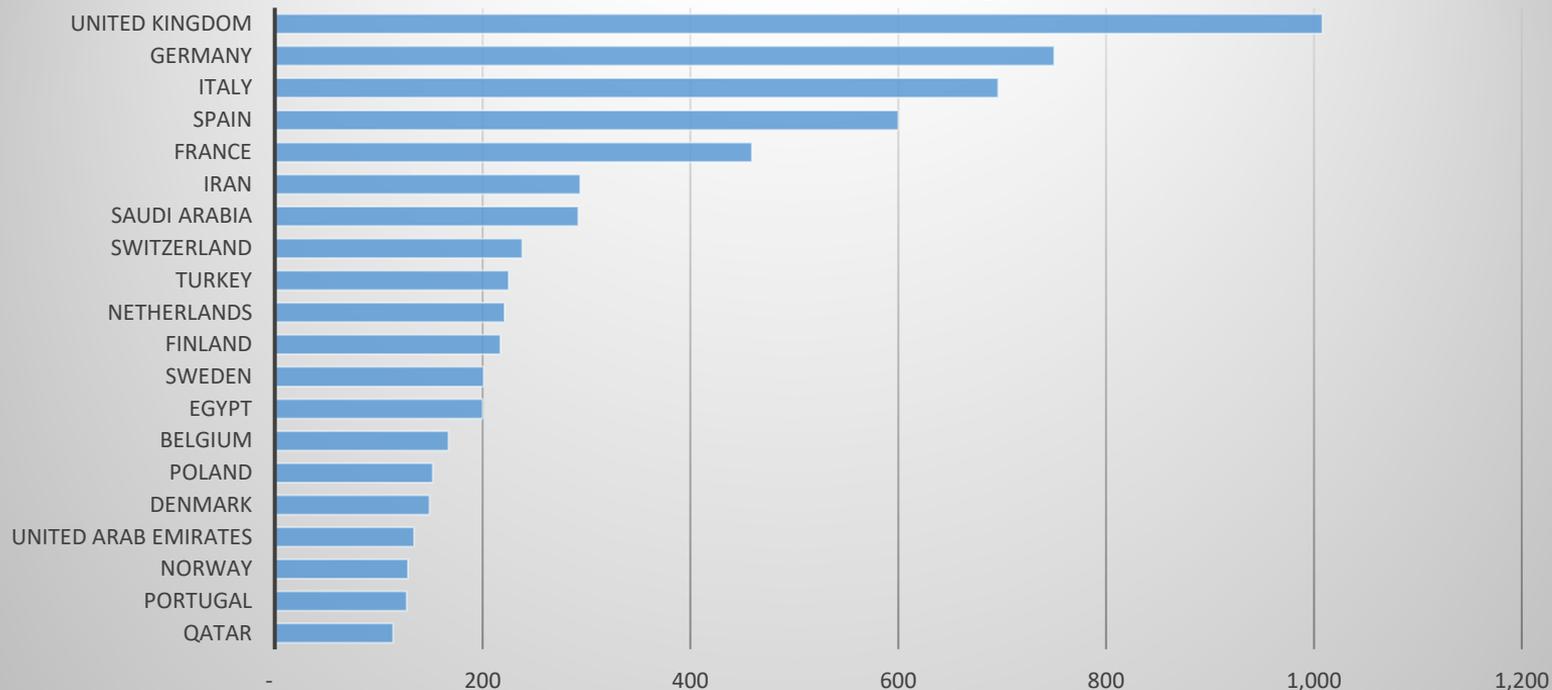
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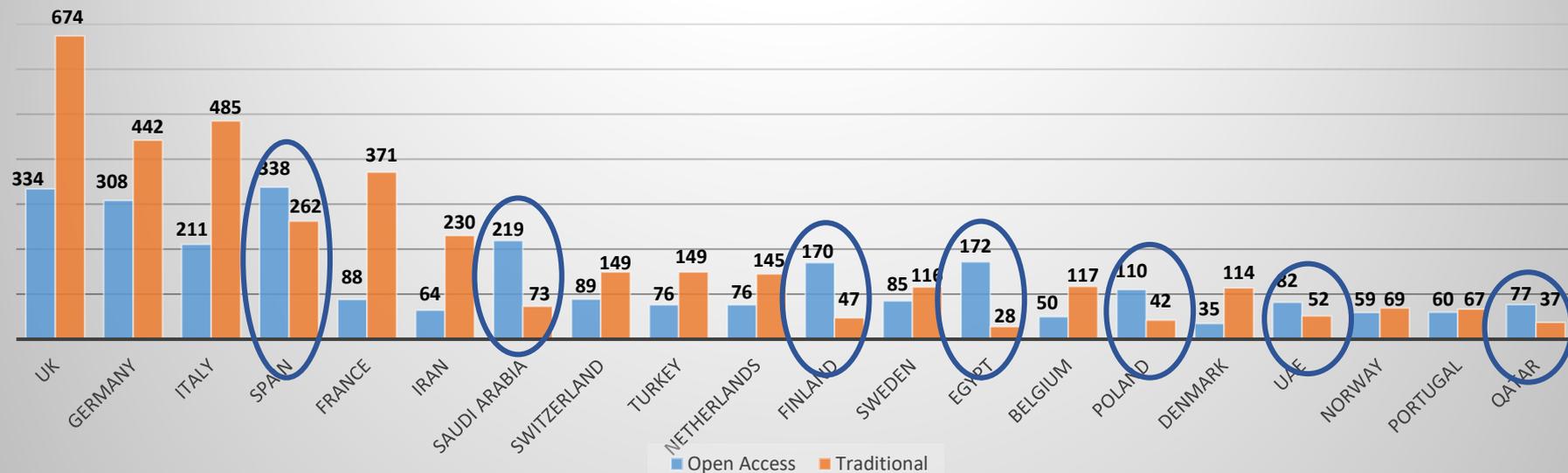
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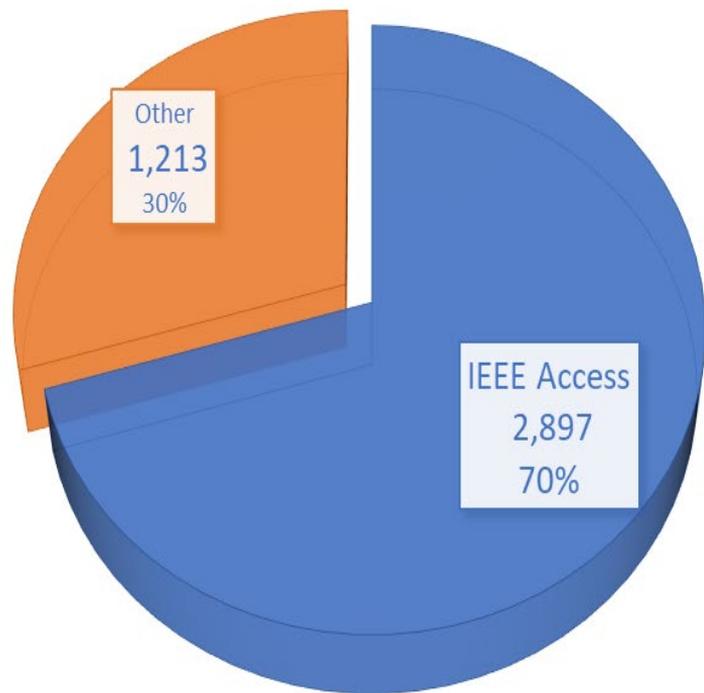
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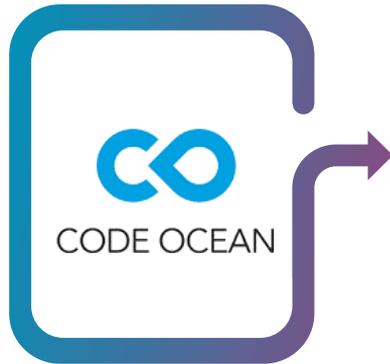


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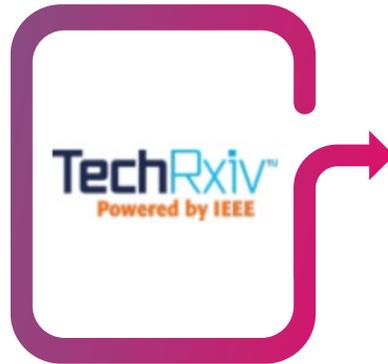
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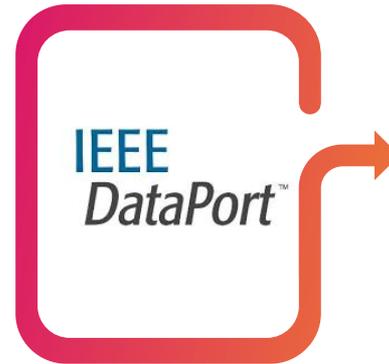
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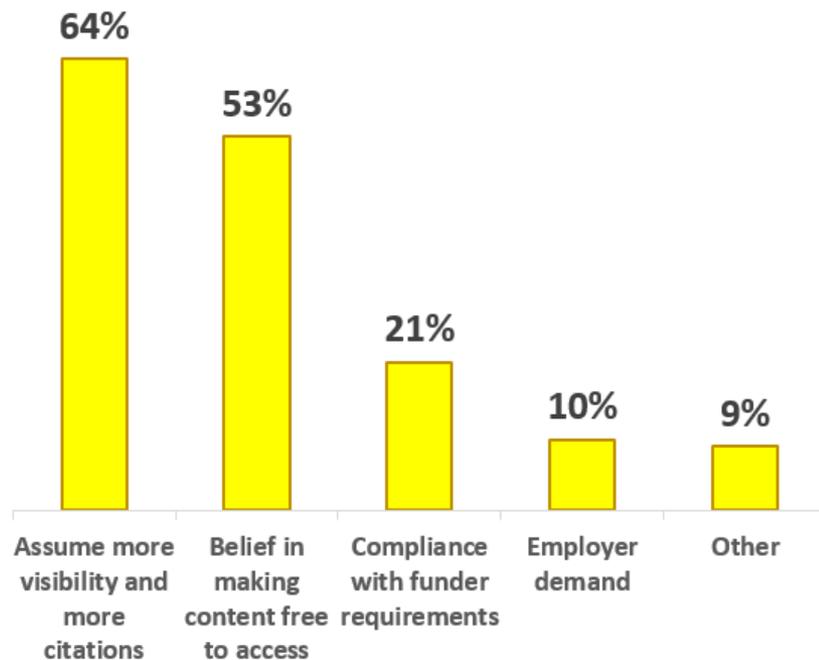
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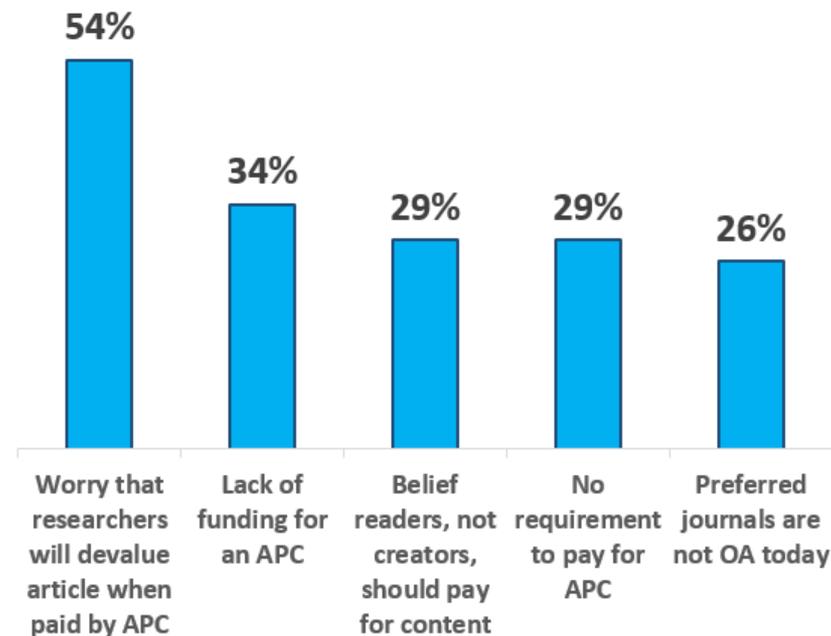
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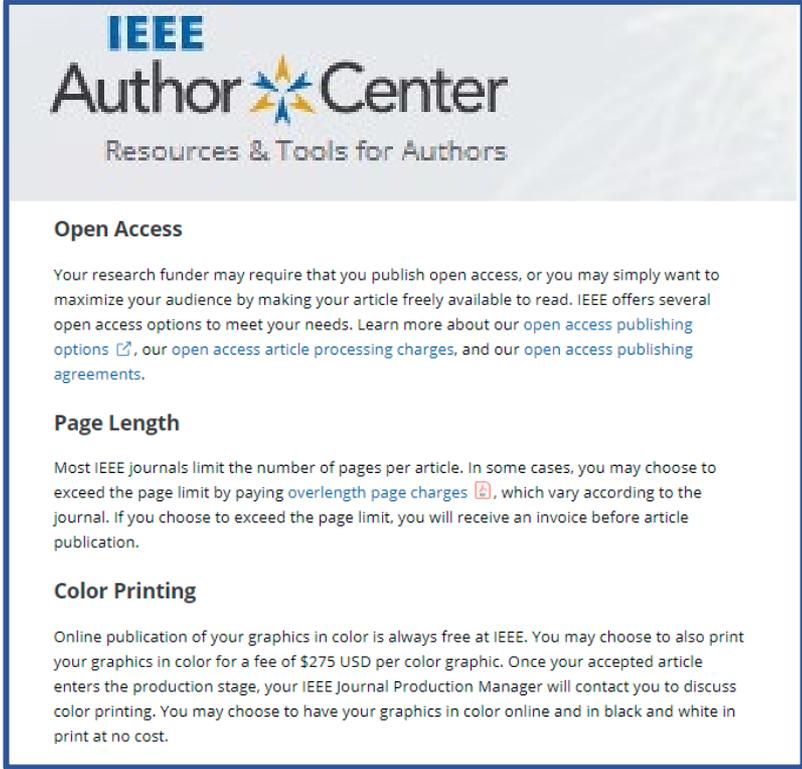
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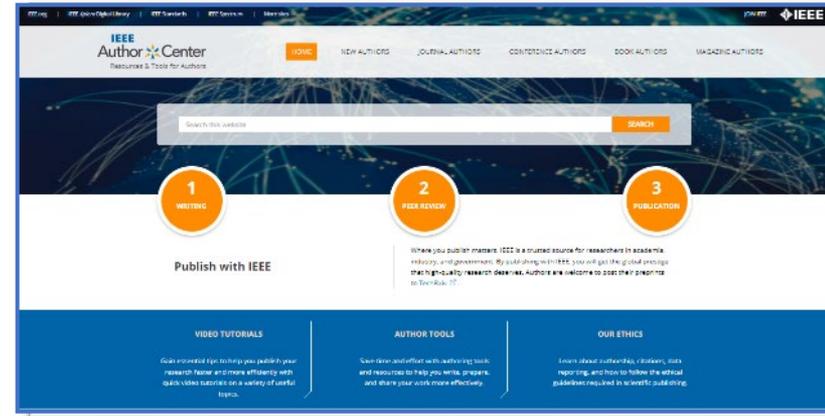
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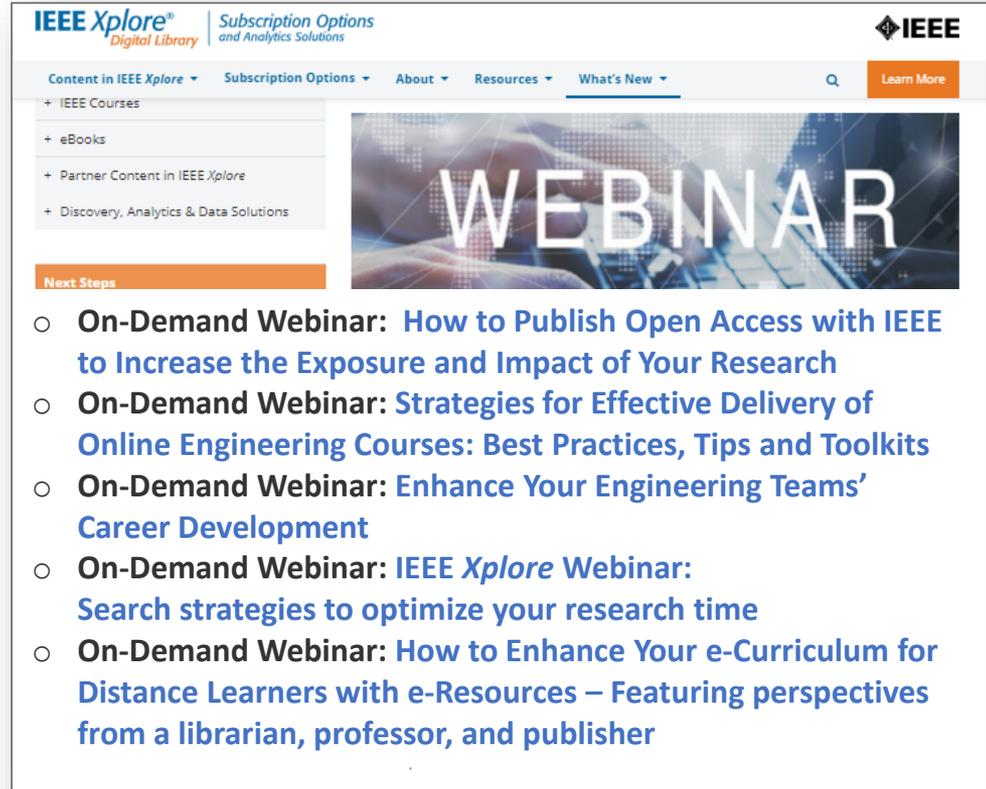
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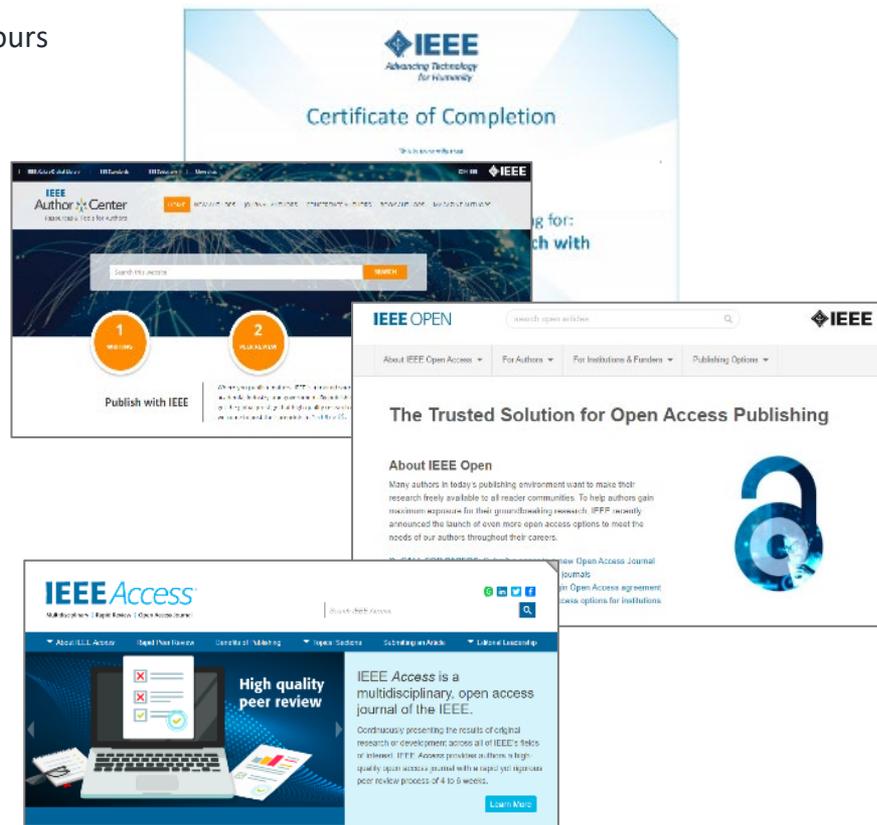
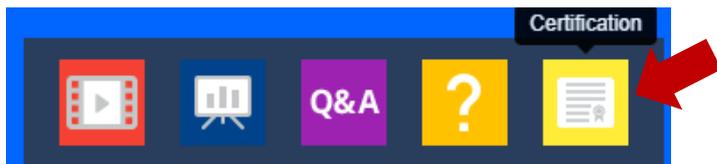
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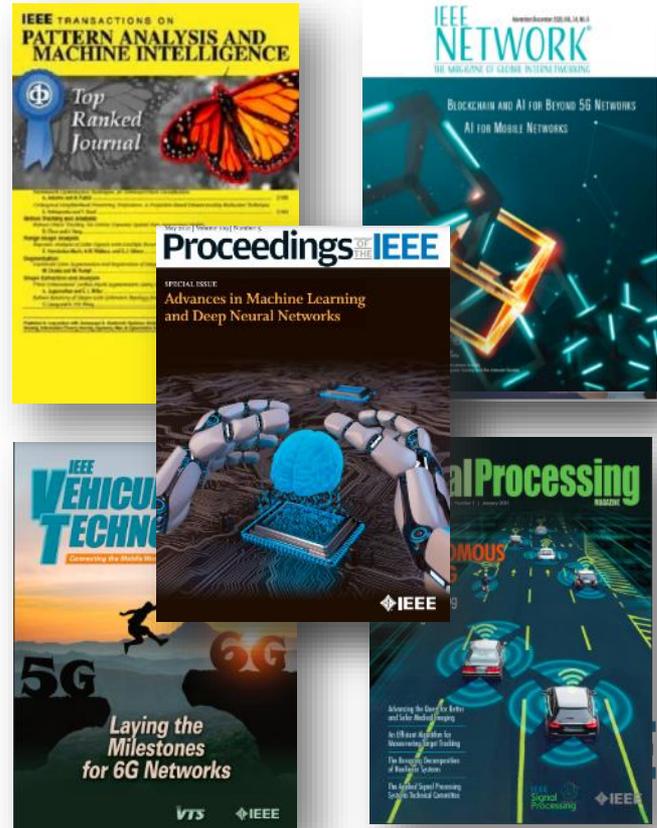


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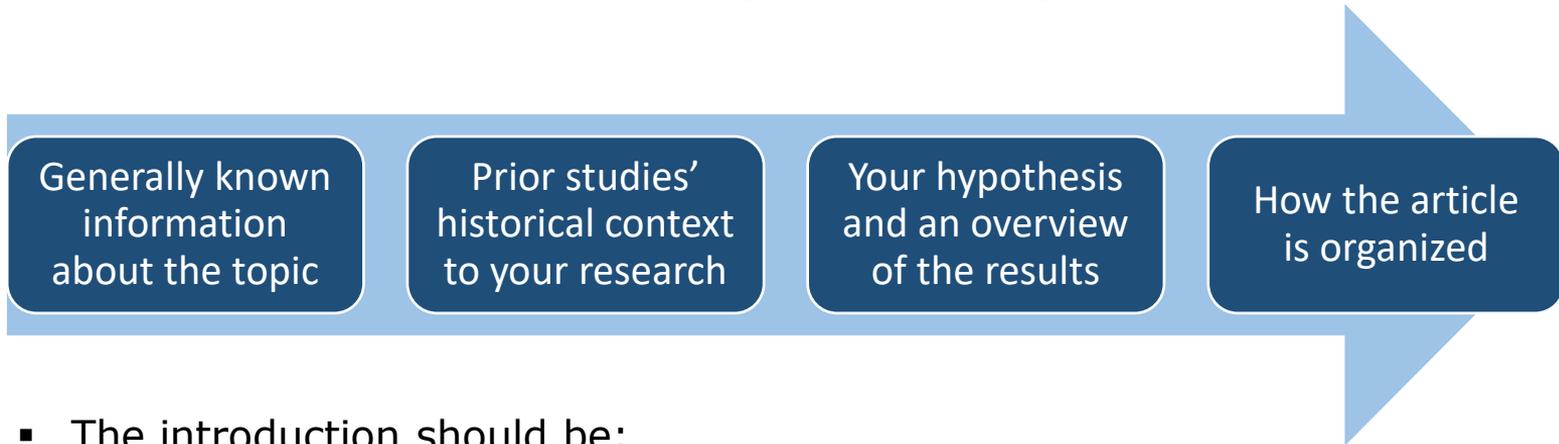
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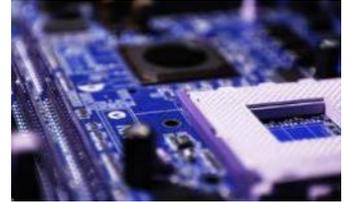
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