



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.

Please make sure your computer speakers are turned on for audio.

A Few Quick Notes Before We Get Started

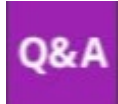
Please note – There is no dial-in number for attendees of this event; please make sure your computer speakers or headset are turned on and the volume is up so that you can hear our presenters.

▶ Technical Support



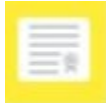
Click the yellow **? icon** at the bottom of your screen to see answers to common technical issues or type your issue into the Q&A window.

▶ Questions for the Presenters



Type your questions into the **Q&A** window. Our presenters will answer as many questions as possible during our time together.

▶ Certificate of Participation



Remember to click the **Certificate Icon** at the bottom of your screen to request your Certificate of Participation.

- ▶ **Access to the recording of today's virtual event** will be available a few hours after the webinar is completed. A link to the on-demand version will be emailed to all registered attendees.

Resource List



Click the green icon at the bottom of your screen to download a PDF version of the presentation

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



Michael Spada - MODERATOR

Director, Strategic Marketing
IEEE



Dr. Saifur Rahman

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



Eszter Lukács

Client Services Manager
IEEE



Judy Brady

Area Manager, Europe
IEEE



Thank you for joining us today!

Thousands of registrants from Europe, Middle East & more

Role: Students, Professors, Assoc. Professors, Researchers, Librarians, Information Professionals, Department Heads, Deans, and many more!

Country:

- ▶ Greece
- ▶ Portugal
- ▶ Germany
- ▶ Romania
- ▶ UK
- ▶ Spain
- ▶ Turkey
- ▶ Italy
- ▶ Poland
- ▶ Saudi Arabia
- ▶ Iraq
- ▶ France
- ▶ Kuwait
- ▶ Russia Fed.
- ▶ Ireland
- ▶ India
- ▶ Austria
- ▶ Belgium
- ▶ Sweden
- ▶ Jordan
- ▶ Switzerland
- ▶ United States
- ▶ Finland
- ▶ UAE
- ▶ Netherlands
- ▶ Bahrain
- ▶ Jordan
- ▶ Denmark
- ▶ Ecuador
- ▶ Hungary
- ▶ Bangladesh
- ▶ Russian Fed.
- ▶ Morocco
- ▶ Egypt
- ▶ Norway
- ▶ Czech Republic
- ▶ Brazil
- ▶ Lithuania
- ▶ Ukraine
- ▶ Croatia
- ▶ Oman
- ▶ Canada
- ▶ Cyprus
- ▶ Serbia
- ▶ Pakistan
- ▶ Algeria
- ▶ Estonia
- ▶ China
- ▶ Israel
- ▶ Malaysia



About the IEEE

- IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity with over 400,000 members in over 160 countries
- Not for profit organization "Advancing Technology For Humanity"
- Core areas of activity
 - Membership organization
 - Conferences organizer
 - Standards developer
 - Quality publishing program that consistently produces the top-cited information in the field
 - Publisher of journals, conferences, standards, eBooks, and eLearning via the IEEE *Xplore* Digital Library
- IEEE *Xplore* by the numbers:
 - Over 5 million total documents
 - More than 15 million downloads per month
 - Over 5 million unique users



IEEE Annual Election

Visit www.ieee.org/election by 1 October

2021 IEEE Annual Election

The IEEE Annual Election has now begun. Submit your vote before 12:00 p.m. ET (1600 UTC-04) on 1 October to help determine the future volunteer leadership of IEEE.

IEEE President-Elect, 2022

- Saifur Rahman (Nominated by Petition)
- Thomas M. Coughlin (Nominated by Petition)
- S. K. Ramesh (Nominated by IEEE Board of Directors)
- Francis B. Grosz (Nominated by IEEE Board of Directors)

[Access Ballot](#)



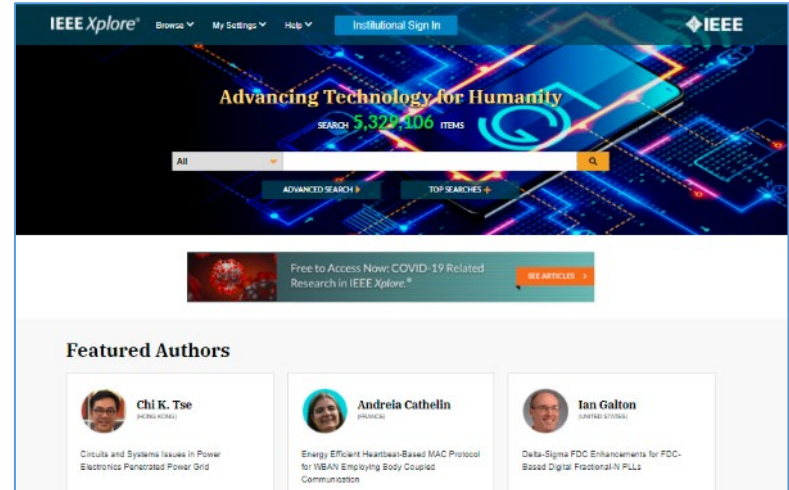
IEEE Student Branch in Egypt



IEEE Xplore Digital Library

The source that the top research organizations in the world rely on to fuel imagination and drive innovation

- IEEE journals, conference proceedings and standards plus select partner content dating as far back as 1884
- More than 5 million documents, 15 million downloads per month, and over 5 million unique users
- More than 1 million articles from over 200 top-cited IEEE journals, magazines, and transactions
- Over 3.6 million conference papers from as far back as 1936, with up to 200,000 added each year
- More than 4,600 approved and published IEEE standards
- eBook collections covering emerging topics in engineering, computer science, telecommunications, and more
- IEEE eLearning Library with the latest in topics such as Artificial Intelligence, 5G, Blockchain, and more!



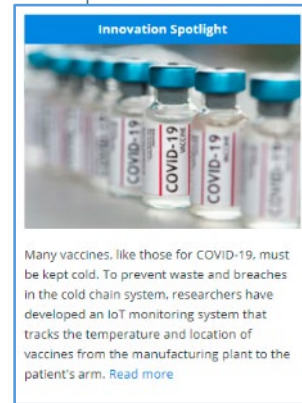
<https://ieeexplore.ieee.org/>



RESPONDING TO TODAY'S PANDEMIC:

Covid-19 Research Now Free to Access in IEEE Xplore

- IEEE realizes that many of our IEEE Xplore users are directly or indirectly engaged in the fight against COVID-19 and its effects on global health and safety, research, infrastructure, communications, and more.
- IEEE has identified articles from the IEEE Xplore digital library that may help researchers understand and manage different aspects of the COVID-19 pandemic and technologies that can be leveraged to combat it.
- All content in this collection is now free to access for the duration of the global health crisis, with additional rights for all types of reuse, including full text and data mining, and analysis.
- 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.



IEEE Today - Inspiring a Global Community of Innovation

IEEE is the world's largest technical professional organization dedicated to **advancing technology for the benefit of humanity.**

Our Mission

The core purpose of IEEE is to foster technological innovation and excellence for the benefit of humanity.

One of our Core Values...

To be a trusted and unbiased source of technical information, and forums, for technical dialog and collaboration.

One of our Goals...

Drive global innovation through broad collaboration and the sharing of knowledge

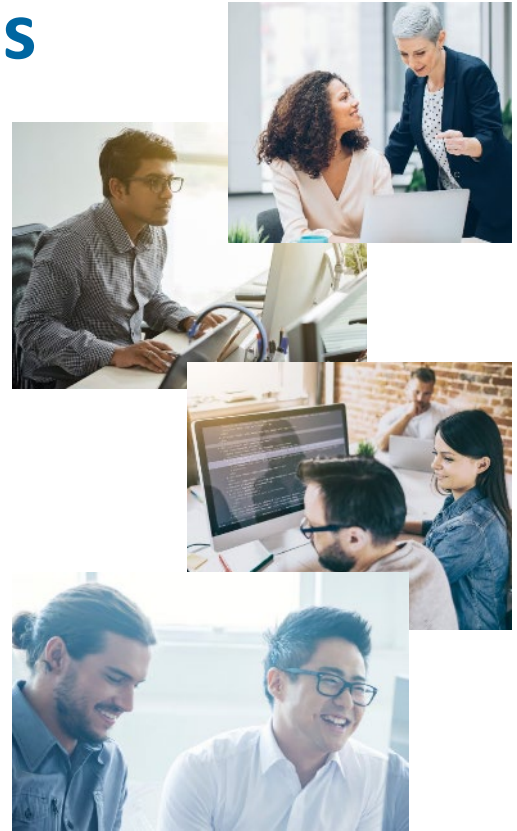
Serving the technology leaders of today and the innovators of tomorrow



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

IEEE Publications Strategy and Goals

- IEEE is dedicated to continuing to be the destination of choice for authors and to serve the author and research community
- **IEEE strives to support all authors and readers globally.** That means being able to offer any author a publication venue that is compliant with their circumstances, regardless of their funding status, the publishing mandates they may have in place, or where in the world they may work.
- **IEEE provides authors with a choice to publish in a traditional journal or in a fully open access journal**
- **IEEE continues to provide more options** and choices to support the work and needs of all authors and researchers



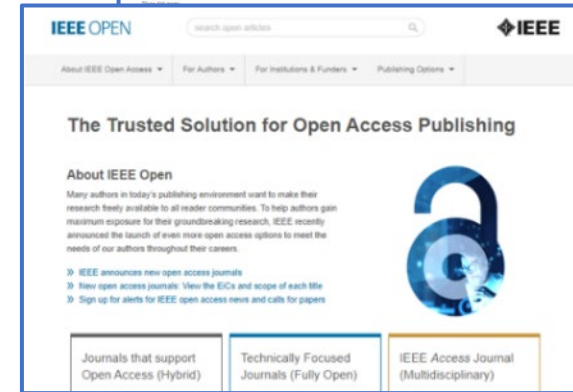
IEEE's Evolving Open Access Program

To help authors gain maximum exposure for their groundbreaking research and application-oriented articles, IEEE offers three options for open access (OA) publishing, all designed to meet the varying needs of our authors throughout their careers.

OA Publishing Options

1. **Hybrid Journals** - **160** journals and magazines spanning an array of technology fields
2. **Fully Open Access Topical Journals** – **20+** titles and more coming soon
3. **Multidisciplinary OA journal - IEEE Access**
 - IEEE's largest open access journal, over 50,000 articles since 2013
 - Highly cited journal in a range of fields
 - Rapid yet rigorous peer review process of 4 to 6 weeks

With the above options for authors, IEEE has published over 80,000 open access articles in IEEE *Xplore*.



IEEE Key Factors in Open Access Publishing

- ▶ Follow **all IEEE established publishing guidelines and principles**
- ▶ Meticulous peer review
- ▶ Meet or exceed the same quality as our premier subscription titles
- ▶ Speed of publication decision and publication itself
- ▶ Geographic and institutional diversity of authorship



Mandate compliance

All of IEEE's new fully Gold OA journals, existing OA journals, and IEEE Access

Plan S Requirement

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| All publications must be published under an open license, preferably the Creative Commons Attribution license (CCBY or CCBY-NC-ND) | <input checked="" type="checkbox"/> |
| When Open Access publication fees are applied, they must be commensurate with the publication services delivered | <input checked="" type="checkbox"/> |
| The journal/platform must provide, on its website, a detailed description of its editorial policies and decision-making processes. | <input checked="" type="checkbox"/> |
| No reliance on hybrid journals (subscription journals with a Gold OA option) or mirror journals (OA journals using essentially the same or similar Editorial Boards as the subscription journal) | <input checked="" type="checkbox"/> |
| Use of persistent identifiers (PIDs) for scholarly publications, such as DOI | <input checked="" type="checkbox"/> |
| Deposition of content with a long-term digital preservation or archiving program | <input checked="" type="checkbox"/> |
| High-quality article level metadata in standard interoperable non-proprietary format | <input checked="" type="checkbox"/> |

IEEE Open Access Read & Publish Programs for Institutions

Covers both **Read and Publish** activity by all institutional users included in the agreement.

Benefits:

- Supports institutions and researchers in advancing open science
- Convenient for authors encouraging open access publishing and broader dissemination of institution's scholarly output
- One annual fee makes it easier for administrators to track all relevant activity and manage funds
- Includes tools for managing and reporting Open Access fees and publications

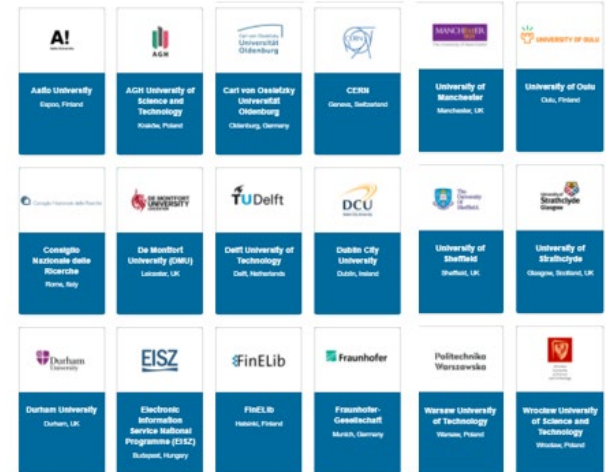
Program to be reviewed annually to ensure components and pricing are agreeable to both institutions as well as IEEE

For more information on IEEE open access options, please visit open.ieee.org

IEEE Reaches a Transformative Open Access Read and Publish Agreement with Finnish Consortium FinELib

IEEE and IReL Expand Access To Irish Technology Research with New Transformative Open Access Agreement

IEEE and CERN Agree to Transformative Open Access 'Read and Publish' Deal



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 displaying 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

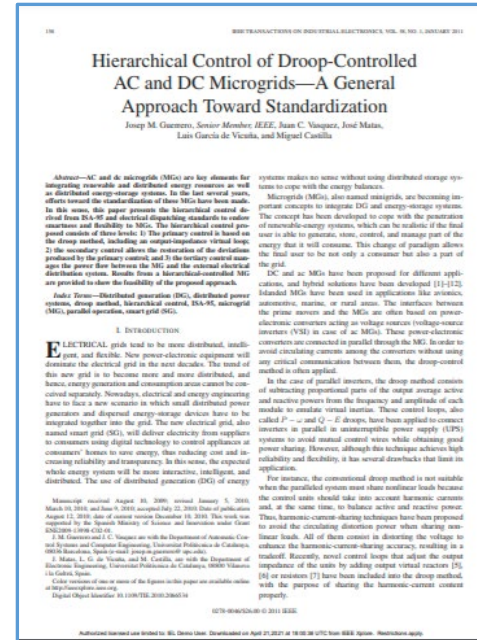
- The content is not a good fit for the publication
- There are serious scientific flaws:
 - Inconclusive results or incorrect interpretation
 - Fraudulent research
- It is poorly written
- It does not address a big enough problem or advance the scientific field
- The work was previously published
-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

The image shows a screenshot of an IEEE paper abstract page. The title is "Hierarchical Control of Droop-Controlled AC and DC Microgrids—A General Approach Toward Standardization". The publisher is IEEE. There are buttons for "Cite This" and "PDF". The authors listed are Josep M. Guerrero; Juan C. Vasquez; José Matas; Luis García de Vicuna; Miguel Castilla. There are 2637 paper citations and 39160 full text views. The abstract text describes AC and DC microgrids (MGs) as key elements for integrating renewable and distributed energy resources. It mentions that efforts toward the standardization of these MGs have been made. The paper presents a hierarchical control derived from ISA-95 and electrical dispatching standards to endow smartness and flexibility to MGs. The control 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. The paper is published in IEEE Transactions on Industrial Electronics (Volume: 58, Issue: 1, Jan. 2011), pages 158-172. The INSPEC Accession Number is 11692753. The date of publication is 12 August 2010. The DOI is 10.1109/TIE.2010.2066534.

What you did

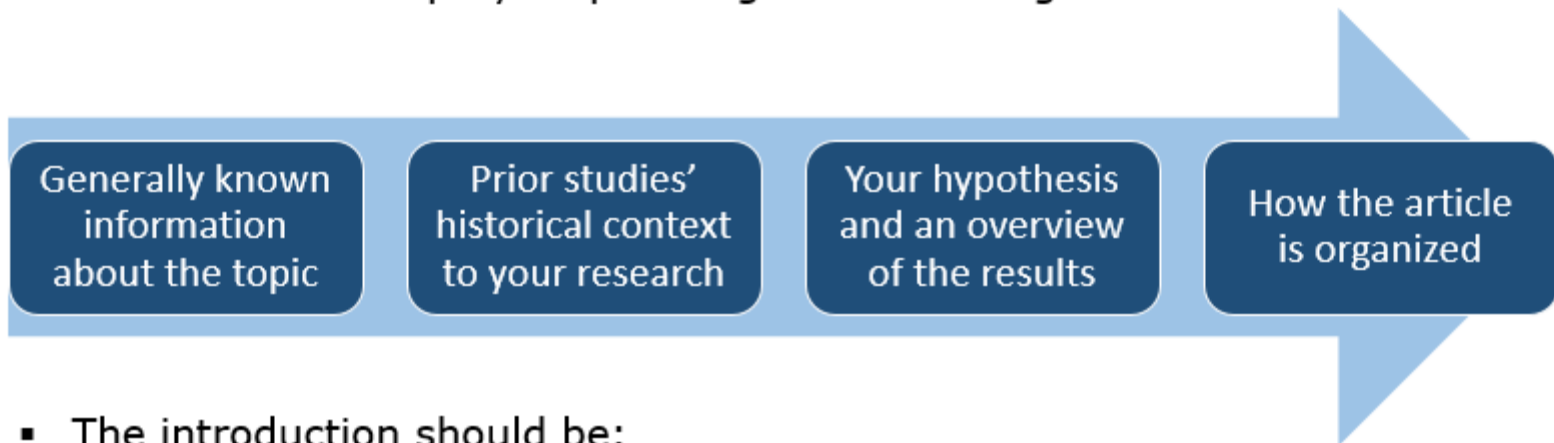
Why you did it

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

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 fractions 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 intercomparison of the two methods requires a condition that can be considered as a “ground-truth” condition: the information about the atmospheric profile and L_d is accurate enough. The SC algorithm is assumed to be a “ground-truth” algorithm, as demonstrated in [15], and it could be used to generate consistent LST products from the historical Landsat data using a simple 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 fractions directly from v , L_d , and L_d values (see [5]), 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.

REFERENCES

- [1] J. R. Town, J. L. Oweis, and J. A. East, “The next Landsat satellite: The Landsat Data Continuity Mission,” *Remote Sens. Environ.*, vol. 123, pp. 1–11, 2009.
- [2] “Global surface temperature and precipitation reanalysis,” *Remote Sens. Environ.*, vol. 123, pp. 1–11, 2009.
- [3] W. Kustas and M. Anderson, “Advances in thermal infrared remote sensing for land surface modeling,” *Agric. For. Meteorol.*, vol. 149, no. 12, pp. 207–234, Dec. 2005.
- [4] M.-L. Li, R.-H. Tang, H. Wu, H. Ren, G. Yan, Z. Yan, J. F. Tripa, and J. A. Sobrino, “Satellite-derived land surface temperature: Current status and perspectives,” *Remote Sens. Environ.*, vol. 123, pp. 14–37, Apr. 2009.
- [5] Z.-L. Li, H. Wu, N. Wang, S. Qin, J. A. Sobrino, Z. Yan, R.-H. Tang, and G. Yan, “Land surface emissivity retrieved from satellite data,” *Int. J. Remote Sens.*, vol. 24, no. 810, pp. 5564–5177, 2011.
- [6] A. M. Minn, “Three decades of Landsat instruments,” *Photogramm. Eng. Remote Sens.*, vol. 63, no. 7, pp. 623–632, Jul. 1997.
- [7] J. A. East, J. R. Town, R. D. Patterson, D. L. Helder, S. J. Hook, R. L. Musick, G. Chandler, and E. M. O’Donnell, “Landsat TM and ETM+ channel band calibration,” *Can. J. Remote Sens.*, vol. 29, no. 2, pp. 143–153, 2003.
- [8] J. C. Jiménez-Muñoz, J. Cristóbal, J. A. Sobrino, G. Shua, M. Ninyerola, and X. Pons, “Revision of the single-channel algorithm for land surface temperature retrieval from Landsat thermal-infrared data,” *IEEE Trans. Geosci. Remote Sens.*, vol. 47, no. 1, pp. 235–244, Jan. 2009.
- [9] L. M. McMillin, “Estimation of sea surface temperature from two infrared window measurements with different absorption,” *J. Geophys. Res.*, vol. 82, no. 54, pp. 1113–1117, 1977.
- [10] J. A. Sobrino, Z.-L. Li, M. P. Stoll, and F. Becker, “Multi-channel and multi-angle algorithms for estimating sea and land surface temperature with ATSR data,” *Int. J. Remote Sens.*, vol. 17, no. 11, pp. 2093–2114, 1996.
- [11] J. C. Jiménez-Muñoz and J. A. Sobrino, “Spatiotemporal coefficients for land surface temperature retrieval from low-resolution thermal infrared sensors,” *IEEE Geosci. Remote Sens. Lett.*, vol. 5, no. 4, pp. 505–508, Oct. 2008.
- [12] A. Beck, G. P. Anderson, P. K. Acharya, J. H. Chaverri, L. S. Eisenstein, E. R. Eshela, M. W. Matthews, and S. M. Adler-Golden, “MODTRAN User’s Manual,” *Monograph AFRL/AFR, USA: Air Force Res. Lab.*, 1999.
- [13] A. M. Kishore, S. J. Hook, G. J. Cleverly, and G. Rivera, “The ATSR2 special Ebersy version 2.0,” *Remote Sens. Environ.*, vol. 115, no. 4, pp. 713–715, Apr. 2008.
- [14] J. C. Jiménez-Muñoz, J. A. Sobrino, M. Ninyerola, and X. Pons, “Improvements in land surface temperature retrieval from the Landsat series thermal band using water vapor and air temperature,” *J. Geophys. Res.*, vol. 114, no. D4, p. D04101, 2009.
- [15] D. P. Chiu, S. M. Uppala, A. J. Simmons, R. Smeeth, R. Poole, S. Kobayashi, U. Anderson, M. A. Katsouras, G. Balzano, F. Bonville, F. Buchholz, A. C. M. Beljaars, L. van de Kamp, J. Bidlot, M. Rozumek, C. Dalziel, R. Danabasoglu, M. Paines, A. J. Geer, L. Hannegan, S. R. Hardy, R. Harries, K. V. Verne, L. Isidorov, P. Kallberg, M. Köhler, M. Moutet, A. P. Morcrette, E. M. Mungu-Inda, J.-F. Royer, R.-K. Park, C. Peubey, R. de Rosnay, C. Thorncroft, J.-M. Toullet, and F. Vitart, “The ERA-Interim reanalysis: Configuration and performance of the data assimilation system,” *Q. J. R. Meteorol. Soc.*, vol. 137, no. 1024, pp. 551–597, 2011.
- [16] C. Matur, C. Durán-Alarcón, J. C. Jiménez-Muñoz, and J. A. Sobrino, “Global Atmospheric Profiles from Earth-orbiting Information (GAPE): A new dataset for forward radiative transfer in the thermal infrared region,” *IEEE Trans. Geosci. Remote Sens.*, 2014, submitted for publication.
- [17] J. A. Sobrino and J. C. Jiménez-Muñoz, “Land surface temperature retrieval from thermal infrared data: An assessment to the content of the surface processes and ecosystem change through response analysis (SPECTRA) mission,” *J. Geophys. Res.*, vol. 116, no. D19, p. D19108, 2011.

Results

Discussion

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
 - Author name, article title, publication name, publisher, year published, volume, page number, and Digital Object Identifier (DOI)

Properly cited material

1574 IEEE TRANSACTIONS ON SMART GRID, VOL. 5, NO. 4, JULY 2014

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. ■

REFERENCES

- [1] "Renewable Energy You Can Count on," Tech. Rep. Union of Concerned Scientists, 2013.
- [2] S. Collier, "Ten steps to a smarter grid," *IEEE Int. Appl. Mag.*, vol. 14, no. 2, pp. 62-66, 2010.
- [3] J. A. Tansac, "A realizable renewable energy future," *Sci.*, vol. 283, no. 5423, pp. 681-689, 1999.
- [4] "Exploration of High-Penetration Renewable Electricity Futures," Tech. Rep. National Renewable Energy Lab., 2012.
- [5] T. Wachsman and J. Marx, *Industries of Carbon Footprint*. Harperspace, NY, USA: Nova Science, 2008.
- [6] J. Carrasco, L. Franquelo, J. Hualdegarra, E. Galbur, B. Gildard, M. Fran, J. Leon, and N. Moreno-Alfonso, "Power-electronic systems for the grid integration of renewable energy source: A survey," *IEEE Trans. Ind. Electron.*, vol. 53, no. 4, pp. 1002-1016, 2006.
- [7] H. Ibrahim, A. Ihsan, and J. Parnis, "Energy storage systems—characteristics and comparison," *Renewable Sustainable Energy Rev.*, vol. 12, no. 5, pp. 1221-1230, 2008.
- [8] J. Garcia-Gonzalez, P. de la Hozola, I. Sainza, and A. Gonzalez, "Stochastic joint optimization of wind generation and pump-storage units in an electricity market," *IEEE Trans. Power Syst.*, vol. 23, no. 2, pp. 440-448, 2008.
- [9] T. D. Nguyen, K.-J. Tang, S. Zhang, and T. D. Nguyen, "On the modeling and control of a novel hybrid energy storage system," in *Proc. IEEE Conf. 2010*, pp. 1395-1401.
- [10] H. Zhou, T. Bharathkalya, D. Tian, T. Siew, and A. Khamisabadi, "Comprehensive energy storage system involving battery and ultracapacitor with dynamic energy management in microgrid applications," *IEEE Trans. Power Electron.*, vol. 26, no. 3, pp. 925-931, 2011.
- [11] S. G. Chakr and J. P. Miller, "Key challenges and recent progress in batteries, fuel cells, and hydrogen storage for clean energy systems," *J. Power Sources*, vol. 192, no. 1, pp. 73-80, 2006.
- [12] J. Hertz and D. Infield, "Energy storage and its use with intermittent renewable energy," *IEEE Trans. Energy Conversion*, vol. 19, no. 2, pp. 441-444, 2004.
- [13] K. G. Yonish, "Compressed air energy storage," *J. Energy*, vol. 2, no. 2, pp. 100-112, 1978.
- [14] C. Abbey and G. Joos, "Supercapacitor energy storage for wind energy applications," *IEEE Trans. Ind. Appl.*, vol. 43, no. 5, pp. 769-776, 2007.
- [15] P. Brown, J. P. Lopes, and M. Matos, "Optimization of pumped storage capacity in an isolated power system with large renewable penetration," *IEEE Trans. Power Syst.*, vol. 23, no. 2, pp. 523-531, 2008.
- [16] C. Abbey and G. Joos, "A stochastic optimization approach to rating of energy storage systems in wind-fueled isolated grids," *IEEE Trans. Power Syst.*, vol. 24, no. 1, pp. 418-426, 2009.
- [17] Y. Zhang, N. Gatsis, and G. Giannakis, "Robust energy management for microgrids with high-penetration renewables," *IEEE Trans. Sustainable Energy*, vol. PP, no. 99, pp. 1-10, 2013.
- [18] S. Boyd, N. Parikh, E. Chu, B. Peleato, and J. Eckstein, "Distributed optimization and statistical learning via the alternating direction method of multipliers," *Foundation Trends Mach. Learning*, vol. 3, no. 1, pp. 1-122, 2010.
- [19] G. Calderini and M. Ciampi, "The scenario approach to robust control design," *IEEE Trans. Automat. Control*, vol. 51, no. 3, pp. 342-353, 2006.
- [20] A. Shapiro, D. Detschneva, and A. Ruszczyński, *Lectures on Stochastic Programming: Modeling and Theory*. Philadelphia, NJ, USA: SIAM, 2009.
- [21] Y. Zhang, N. Gatsis, and G. Giannakis, "Robust-constrained energy management with multiple wind farms," in *Proc. IEEE Conf. Digital Signal Process.*, Jul. 2013, pp. 1-5.
- [22] Y. Zhang, N. Gatsis, V. Kaloupek, and G. Giannakis, "Risk-aware management of distributed energy resources," in *Proc. Int. Conf. Digital Signal Process.*, Jul. 2013, pp. 1-5.
- [23] Y. Zhang and A. Nohian, "Hybrid energy storage and generation planning with large renewable penetration," in *IEEE Int. Workshop Comput. Adv. Multi-Sensor Adaptive Process.*, Dec. 2013, pp. 1-4.
- [24] EPRI, "Electricity Energy Storage Technology Options: A White Paper on Applications, Costs, and Benefits," Tech. Rep. EPRI, Palo Alto, CA, USA, 2010.
- [25] National Solar Radiation Data Base, [Online]. Available: <http://rtds.nrel.gov/nrel/sdr/ndb.html>
- [26] S. Wilson, *National Solar Radiation Database 1991 - 2010 Update*. Clear Manual, 2012.
- [27] EPRI, "Renewable Energy Technical Assessment Guide - TAG-RE2006," Tech. Rep. EPRI, Palo Alto, CA, USA, 2007.
- [28] ERCOT Hourly Load Data Archive, [Online]. Available: http://www.ercot.com/gridinfo/loadload_hist
- [29] M. Omer and S. Boyd, CVX: Matlab Software for Disciplined Convex Programming, Version 2.0 Beta 2012 [Online]. Available: <http://www.stanford.edu/~boyd/cvx>
- [30] "MISO Daily Report," 2011, Electric Power Markets Midwest (MISO), FERC [Online]. Available: <http://www.ferc.gov/markets-over-sight/miso-electric/midwest/miso-dailyreport.asp>
- [31] "CAISO Daily Report," 2011, Electric Power Markets California (CAISO), FERC [Online]. Available: <http://www.ferc.gov/markets-over-sight/ca-electric/illinois-caiso-dailyreport.asp>



Peng Yang (S'11) received the B.Sc. degree in electrical engineering from University of Science and Technology, Anhui, China in 2009, and the M.Sc. and Ph.D. degrees in electrical engineering from Washington University in St. Louis, St. Louis, MO, USA, in 2011 and 2014, respectively. His Ph.D. advisor is Dr. Arya Nabar.

His research interests include statistical signal processing, optimization, machine learning, and compressive sensing, with applications to smart grids.



Arya Nabar (S'00-M'03-SM'06-F'04) received the B.Sc. and M.Sc. degrees from the University of Toronto, Toronto, Canada, and the Ph.D. degree from Stanford University, Stanford, CA, USA.

He is the Eugene and Martha Lehman Professor and Chair of the Preston M. Green Department of Electrical and Systems Engineering (ESE) at Washington University in St. Louis (WUSTL), St. Louis, MO, USA. He has been a faculty member at Yale University and the University of Illinois at Chicago. Dr. Nabar served as Editor-in-Chief of IEEE TRANSACTIONS ON SIGNAL PROCESSING FROM 2009 to 2012. From 2003 to 2005 he was the Vice President of the IEEE Signal Processing Society (SPS), the Chair of the Publications Board, and a member of the Executive Committee of this Society. He was the founding Editor of the special column on Leadership Reflections in IEEE Signal Processing Magazine from 2003 to 2006. He has been a Fellow of the IEEE since 1994, the Royal Statistical Society since 1996, and the AAAS since 2012.

Ethics

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

Plagiarism

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

Author Attribution

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

Author Contributions

- Include all who have made a substantial intellectual contribution to the work
- Do not include minor contributors

Ethics

Ethical publishing

Plagiarism

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

Ethics

Duplicate submissions

- Submit to only one publication at a time
- Avoid submitting an article which is the same or very similar to a previous work
- However...conference proceedings can evolve into a journal article
- IEEE recognizes that technical research is often published first as a conference article with preliminary findings. As those initial findings become fully developed, the conference article can evolve into a journal article which contains your more developed research and conclusions. IEEE supports this evolutionary publishing process provided that:
 - Both the earlier and later articles undergo standard peer review
 - The later article contains substantially more technical information than the earlier
 - The later article cites the earlier article and clearly indicates how the two articles differ

Ethics

Ethical publishing

Duplication, Redundancies and Multiple Submissions

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

Remember, for ethical publishing...

- No duplicate submissions
- Avoid plagiarism/self-plagiarism



For much more information on publishing ethics:

<https://journals.ieeeauthorcenter.ieee.org/become-an-ieee-journal-author/publishing-ethics>

Our Next Speaker...



Eszter Lukács
Client Services Manager
IEEE

Eszter Lukács is an IEEE Client Services Manager who works with customers located in Germany, Italy, Israel, Turkey, and Eastern Europe. She offers customized learning opportunities about publishing with the IEEE and in-depth training sessions to help users master searching best practices. Eszter gained her Magister degree in Linguistics from the Humboldt University of Berlin and has more than 15 years of experience in the information industry; she speaks German, English, and Hungarian.





Research Strategies and Tools for Authors from IEEE

Presented by:

Eszter Lukács

IEEE Client Services Manager

e.lukacs@ieee.org



Research Strategies and Tools for Authors

Eszter Lukács, IEEE Client Services Manager

- ▶ Tips to finetune your **research strategies** using *IEEE Xplore*
- ▶ How to **avoid predatory publishers**
- ▶ **Open access** publishing options
- ▶ How to **promote your research article**



Research strategies using IEEE *Xplore*

Tools to Conduct a Literature Review

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

- **Conduct a literature review**
- Take notes and keep track
- Gather references and citations



Start Your Search Simply

Advancing Technology for Humanity

SEARCH **5,288,583** ITEMS

All



"data mining" AND "neural net**"



ADVANCED SEARCH ▶

TOP SEARCHES +

<http://ieeexplore.ieee.org>

1968

2021



w or refine

mining" AND "neural net*" x

Journals (1,626)

Early Access Articles (130)

Magazines (65)

From

To

1968

2021

Author

Affiliation

Publication Title

Publisher

Supplemental Items

Conference Location

Publication Topics

Select All on Page

Sort By: **Relevance**

Knowledge Extraction From **Neural Networks** Using the All-Permutat
The LED Display Recognition Problem

Eyal Kolman; Michael Margaliot

IEEE Transactions on **Neural Networks**

Year: 2007 | Volume: 18, Issue: 3 | Journal Article | Publisher: IEEE

Cited by: Papers (12)

▶ Abstract

(html)

PDF (408 Kb)



- ✓ Relevance
- Newest First
- Oldest First
- Most Cited [By Papers]
- Most Cited [By Patents]
- Most Popular
- Publication Title A-Z
- Publication Title Z-A



From 11,495 to 76:

Showing 1-25 of 76 for "data mining" AND "neural net*" x "pattern classification" x patient x

▼ Filters Applied: 2016 - 2021 x


Conferences (62)

Journals (13)

Magazines (1)

Show

All Results

Subscribed Content 

Open Access Only

Select All on Page

Sort By: Relevance ▼

Classification and prediction of heart disease risk using data mining techniques of Support Vector Machine and Artificial Neural Network 

S. Radhimeenakshi

2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom)

Year: 2016 | Conference Paper | Publisher: IEEE

Cited by: Papers (4)

▶ Abstract

 (html)

 (422 Kb)



Single Year

Range

Sort your results to find new or highly-cited papers:

Select All on Page

Classification and prediction of heart disease risk using data mining Vector Machine and Artificial Neural Network

S. Radhimeenakshi

2016 3rd International Conference on Computing for Sustainable Global D
(INDIACom)

Year: 2016 | Conference Paper | Publisher: IEEE

Cited by: Papers (4)

▶ Abstract

[\(\(html\)\)](#)

 (422 Kb)



Sort By: **Relevance** ▼

- ✓ Relevance
- Newest First
- Oldest First
- Most Cited [By Papers]**
- Most Cited [By Patents]**
- Most Popular
- Publication Title A-Z
- Publication Title Z-A

The Impact of Features Selection on Performance of Artificial Neural Network in Diagnosis of Diabetic Retinopathy



Tri Astuti; Rizki Wahyudi; Uswatun Hasanah; Bambang Pilu Hartato; Zanuvar Rifai

2019 4th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE)

Most Cited – by Papers or Patents

Select All on Page

Sort By: Most Cited [By Papers] ▼


Select All on Page

Sort By: Most Cited [By Patents] ▼

ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases 

Xiaosong Wang; Yifan Peng; Le Lu; Zhiyong Lu; Mohammadhadi Bagheri; Ronald M. Summers
2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

Year: 2017 | Conference Paper | Publisher: IEEE

Cited by: Papers (201) | Patents (2) 

▶ Abstract

[\(\(html\)\)](#)

 (1238 Kb)



Or Filter Keyword Searches by Authors

Author



Enter Author Name

- Lei Wang (16)
- Lei Zhang (15)
- Wei Li (13)
- Philip S. Yu (13)
- Wei Wang (12)
- Wei Liu (12)
- Yang Liu (11)
- Licheng Jiao (11)

- Automated IT system failure prediction: A deep learning approach** 
Ke Zhang; Jianwu Xu; Martin Renqiang Min; Guofei Jiang; Konstantinos Pelechris; Hui Zhang
2016 IEEE International Conference on Big Data (Big Data)
Year: 2016 | Conference Paper | Publisher: IEEE
Cited by: Papers (36) | Patents (2)

▶ Abstract

[\(\(html\)\)](#)


 (922 Kb)



- Automatic Road Detection and Centerline Extraction via Cascaded End-to-End Convolutional Neural Network** 
Guangliang Cheng; Ying Wang; Shibiao Xu; Hongzhen Wang; Shiming Xiang; Chunhong Pan
IEEE Transactions on Geoscience and Remote Sensing
Year: 2017 | Volume: 55, Issue: 6 | Journal Article | Publisher: IEEE
Cited by: Papers (127) | Patents (2)

▶ Abstract

[\(\(html\)\)](#)

 (6957 Kb)



 Media

Once You Know the Key Authors, dive into their profile



Sonja Grgic  

Also published under: S. Grgic, Sonja Grgić

Affiliation

Faculty of Electrical Engineering and Computing
University of Zagreb
Zagreb, Croatia

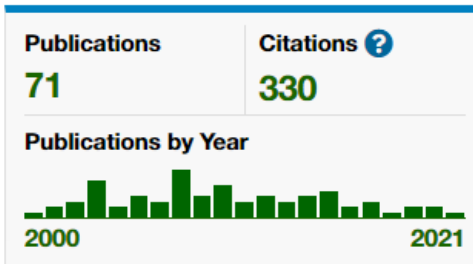
Publication Topics

image colour analysis, learning (artificial intelligence), art, artificial satellites, convolutional neural nets, decision trees, digital photography, energy conservation, feature extraction, graphical user

[Show More](#)

Biography

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](#)).



Co-Authors:

W. Afric
Luis Alberto da Silva Cruz
Dubravko Babić
Iva Bacic
Perica Baotic

[Show All Co-Authors \(60\)](#)

Follow This Author



visiting professor at the University of Fortaleza (UNIFOR), Brazil. He received the Academic Title of Aggregated Professor in computer science and engineering from UBI, the Habilitation in computer science and engineering from the University of Haute Alsace, France, a PhD degree in computer

All

Dual Beam Scanning



Search within Publication

ADVANCED SEARCH

Browse Journals & Magazines > IEEE Transactions on Antennas ... ?

IEEE Transactions on Antennas and Propagation



Submit Manuscript



Add Title To My Alerts



Add to My Favorites



Home

Popular

Early Access

Current Issue

All Issues

About Journal

4.371

Impact Factor

0.04438

Eigenfactor

0.903

Article Influence Score



[View Title History](#)

Author Resources

[Submission Guidelines](#)

[Submit Manuscript](#)

[Author Center](#)

[Become a Reviewer](#)

Aims & Scope

The *IEEE Transactions on Antennas & Propagation* publishes full papers and shorter Communications on original contributions within the general topics of electromagnetics, antennas and wave propagation. Specifically the journal focuses on: antennas, including analysis, design, development, measurement, and testing; radiation, propagation, and the interaction of electromagnetic waves with discrete and continuous media; and applications and systems pertinent to antennas, propagation, and sensing, such as applied optics, millimeter- and sub-millimeter-wave techniques, antenna signal processing and control, radio astronomy, and propagation and radiation aspects of terrestrial and space-based communication, including wireless, mobile, satellite, and telecommunications.

IEEE
ENGLISH
for Techni
Profession
eLEARNING
COURSE PROG

All Metadata

All Metadata

Full Text & Metadata

Full Text Only

Document Title

Authors

Publication Title

Abstract

Index Terms

Accession Number

Article Number

Article Page Number

Author Affiliations

Author Keywords

Author ORCID

DOI

Funding Agency

IEEE Terms

INSPEC Controlled Terms

INSPEC Non-Controlled Terms

ISBN

Advanced Search

Command Search

Citation Search

Enter keywords and select fields.

Search Term

"intrusion protection" OR "intrusion detection"

in

AND



Search Term

honeypot OR honeynet OR "swarm intellig

in

AND



Search Term

in

Advanced Search

Command Search

Citation Search

Enter keywords, phrases, or a Boolean expression

Use the drop down lists to choose Data Fields and Operators.

[Learn how to use Boolean expressions in Command Search.](#)

Data Fields



Operators



Operators



Operators

AND

OR

NOT

NEAR

ONEAR

Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 20 search terms.

Search Expression Examples



```
("Full Text .AND. Metadata":"intrusion protection" OR "Full Text .AND. Metadata":"intrusion detection") NEAR/5 ("Full Text .AND. Metadata":honeypot OR "Full Text .AND. Metadata":honeynet OR "Full Text .AND. Metadata":"swarm intelligence")
```

Take Notes & Keep Track

- Conduct a Literature Review
- **Take Notes and Keep Track**
- Gather References & Citations



Create a Free Personal Account

Top right corner on IEEE Xplore



Save search



Download PDFs ▼ | F

Early Access Articles (

g the All-Permutation

IEEE Journal of Solid-State Circuits

Vol. 56 , Issue 9 • Sept. 2021

The latest issue of the publication you selected is now available. Select a link to go to the respective article in IEEE Xplore.

[View All Articles](#)

VIEW ARTICLES



1-to-4 Analog Demultiplexer With up to 128 GS/s for Interleaving of Bandwidth- Limited Digitizers in Wireline and Optical Receivers

Phillipp Thomas; Tobias Tannert;
Markus Grözing; Manfred Berroth;
Qian Hu; Fred Buchali

[Read Article](#)

Gather References & Citations

- Conduct a Literature Review
- Take Notes & Keep Track
- **Gather References and Citations**



Download or Save Citations from Result List

The screenshot shows a search results page with a search bar at the top containing a magnifying glass icon. To the right of the search bar are three dropdown menus: "Download PDFs", "Per Page: 100", and "Export". The "Export" menu is highlighted with an orange border. Below the search bar, a citation string is displayed: `@INPROCEEDINGS{6882630, author={Schotten, Hans D. and Sattiraju, Raja and Serrano, David Gozalvez and Ren, Zhe and Fertl, Peter}, booktitle={2014 European Conference on Networks and Communications (EuCNC)}, title={Availability indic year={2014}, volume={}, number={}, pages={1-5}, doi={10.1109/EuCNC.2014.6882630}}`. Below the citation string, the author information "Hans D. Schotten; Raja Sattiraju; D" is visible, followed by the book title "2014 European Conference on Net", the year "Year: 2014", the type "Conference Paper", and citation statistics "Cited by: Papers (24) | Patents (7)". At the bottom of the page, there are buttons for "Abstract", "HTML", and a PDF icon. An "Export" dialog box is open in the foreground, showing the "RefWorks" option selected. Under the "Include" section, "Citation Only" is selected with a radio button, and "Citation & Abstract" is unselected. At the bottom of the dialog box are "Cancel" and "Export" buttons. The IEEE logo is visible in the bottom right corner.

Download PDFs | Per Page: 100 | **Export**

@INPROCEEDINGS{6882630,
author={Schotten, Hans D. and Sattiraju, Raja and Serrano, David Gozalvez and Ren, Zhe and Fertl, Peter},
booktitle={2014 European Conference on Networks and Communications (EuCNC)}, title={Availability indic
year={2014},
volume={},
number={},
pages={1-5},
doi={10.1109/EuCNC.2014.6882630}}

Hans D. Schotten; Raja Sattiraju; D
2014 European Conference on Net
Year: 2014 | Conference Paper |
Cited by: Papers (24) | Patents (7)

Abstract HTML PDF

RefWorks

Include

Citation Only

Citation & Abstract

Cancel Export

IEEE

The Future of Deep Learning Is Photonic: Reducing the energy needs of neural networks might require computing with light

Publisher: IEEE

Cite This

PDF

Ryan Hamerly [All Authors](#)

474
Full
Text Views

Abstract

Document Sections

- » Optical Data
Communication is
Faster and Uses Less
Power. Optical
Computing Promises the
Same Advantages
- » Theoretically, Photonics
Has the Potential to
Accelerate Deep
Learning by Several
Orders of Magnitude

Authors

Abstract:

Think of the many tasks to which computers human intuition. Computers routinely identify languages, diagnose medical conditions, pla

Published in: [IEEE Spectrum](#) (Volume: 58

Page(s): 30 - 47

Date of Publication: 05 July 2021

ISSN Information:

Think of the many tasks to which computers past required human intuition. Computers speech, translate between languages, diagn and drive cars.



My Research Projects

Deep Learning and Photonics

Challenges outlined in paper:

- Accuracy & dynamic range of analog optical calculations

Max 1,000 Characters

133 / 1,000

optical neural networks

Enter

deep learning

photonic

machine learning

Find References for Every Paper

Citation Map

This view provides a high-level visual representation of references and citing documents for this article. To view the full listing, select "View All References" or "View All Citations".

[View All References](#)

[View All Citations](#)

Viewing: **Availability indication as key enabler for ultra-reliable communication in 5G**

References in this Article

Citations to this Article

1 METIS-Mobile and Wireless Communications Enablers for the Twenty-twenty Information Society

2 The foundation of the mobile and wireless communications system for 2020 and

1 Impact of cyclic prefix configuration on mobility performance of multi-connectivity in 5G networks

2 Reliability analysis of a wireless transmission as a repairable system

By Papers

By Patents

 Citation Map

Patent Citations (7) Patent Links Provided by 1790 Analytics

1. Palenius, Torgny; Baldemair, Robert; Hessler, Martin; Karipidis, Eleftherios; Lincoln, Bo; Semaan, Eliane, " User equipment procedures to control uplink beamforming"

▼ Patent No. 10771310

[View at Patent Office](#)

[Full Text: PDF](#)

[Google Scholar](#)

Inventors:

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 ERICCSON
(PUBL)

Patent Classes:

Current International Class:
H04L0122400000. H04B0070600000.

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

of a wireless transmission
7-1401, 2014.

How to avoid predatory publishers

Checklist to avoid predatory publisher

<https://thinkchecksubmit.org>

- ▶ Do you or your colleagues know the journal?
 - Have you read any articles in the journal before?
 - Is it easy to discover the latest papers in the journal?
- ▶ Can you easily identify and contact the publisher?
 - Is the publisher name clearly displayed on the journal website?
 - Can you contact the publisher by telephone, email, and post?
- ▶ Is the journal clear about the type of peer review it uses? websites?
- ▶ Are articles indexed in services that you use?
- ▶ Is it clear what fees will be charged?
 - Does the journal site explain what these fees are for and when they will be charged?
- ▶ Do you recognise the editorial board?
 - Have you heard of the editorial board members?
 - Do the editorial board mention the journal on their own
- ▶ Is the publisher a member of a recognized industry initiative?



Choose the right journal or publisher for your research

For More: <https://innovate.ieee.org/beware-of-predatory-journals/>



Open Access Publishing Options

What is Open Access?

- ▶ Article is made freely available upon publication; no subscription or pay-per-view fee required
- ▶ Often supported by an Article Processing Charge (APC), paid for by the author or research funder
- ▶ May include different copyright or licensing agreements than traditional publication

Why Should I Care About Open Access?

Share your
work more
broadly

Comply with
funder's
requirements

Enable others
to build on
your work

Open Access at IEEE: Publishing Venues

Hybrid

Traditional
journals

Topical

Fully OA,
subject-specific

IEEE Access

Fully OA,
multidisciplinary

How to promote your research

Author Profiles



Follow This Author

Alvydas Lisauskas

Also published under: [A. Lisauskas](#)

Affiliation

Institute of Applied Electrodynamics and Telecommunications
[Vilnius University](#)
Vilnius, Lithuania

Publication Topics

terahertz wave detectors, terahertz wave imaging, submillimetre wave transistors, III-V semiconductors, aluminium compounds, field effect transistors, submillimetre wave detectors, bow-tie
[View More](#)

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](#)

Publications **66**



Co-Authors:

[Pablo Acedo Gallardo](#)
[Zeshan Ahmad](#)
[M. Andersson](#)
[S. Babiel](#)
[Maris Bauer](#)

[View All \(130\)](#)

Unique Identifier for authors



SIGN IN/REGISTER

English



Search



[ABOUT](#) [FOR RESEARCHERS](#) [MEMBERSHIP](#) [DOCUMENTATION](#) [RESOURCES](#) [NEWS & EVENTS](#)

Our informational site (not the registry) is undergoing scheduled maintenance.
If you notice any disruption in service don't worry - we'll be back up shortly!

Daniilo Erricolo

ORCID iD

<https://orcid.org/0000-0001-6352-9567>

Print view

Websites & Social Links

<http://erricolo.engr.uic.edu/>

Country

United States

Other IDs

Scopus Author ID: 6602988232

Works (50 of 122)

Sort

Items per page: 50

1 - 50 of 122



Unmanned Aerial Vehicles for High-Frequency Measurements: An Accurate, Fast, and Cost-Effective Technology

IEEE Antennas and Propagation Magazine

2021 | journal-article

DOI: 10.1109/MAP.2021.3061026

Source: Crossref

★ Preferred source

Radio Frequency Tomography for Nondestructive Testing of Pillars

IEEE Transactions on Geoscience and Remote Sensing

2020-06 | journal-article

Software

Publisher: IEE

Fatima Nur Cola

134

Full
Text Views

Open Access

Under a Creative Commons License

Abstract

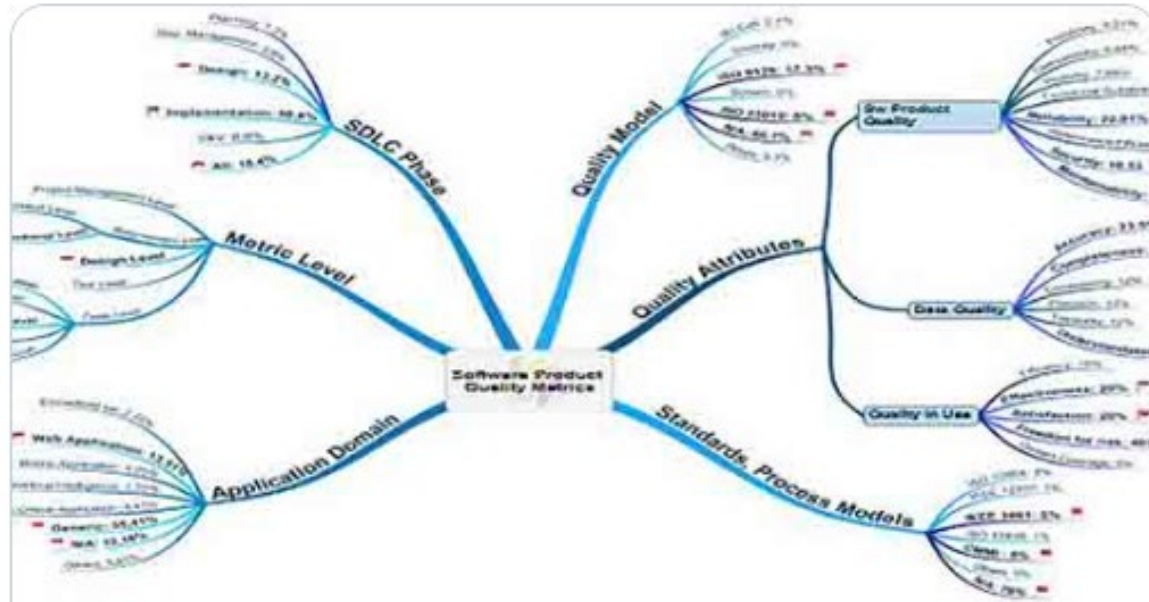
Document Section

The Systemic
2019 year



Eszter Lukács @IEEE_elukacs · Jetzt

#mapping #software #quality #objectorientedmodeling



Software Product Quality Metrics: A Systematic Mapping Study
In the current competitive world, producing quality products has become a prominent factor to succeed in business. In this respect, ...
ieeexplore.ieee.org



succeed in
detect the

to win
a gift card!

Thank you for your time today!

Eszter Lukács
e.lukacs@ieee.org

IEEE Author Engagement Team
authors@ieee.org

Our Final Speaker...



Judy Brady

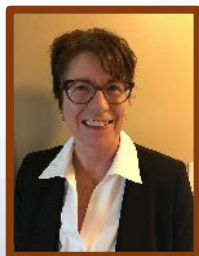
IEEE Area Manager for Europe

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.





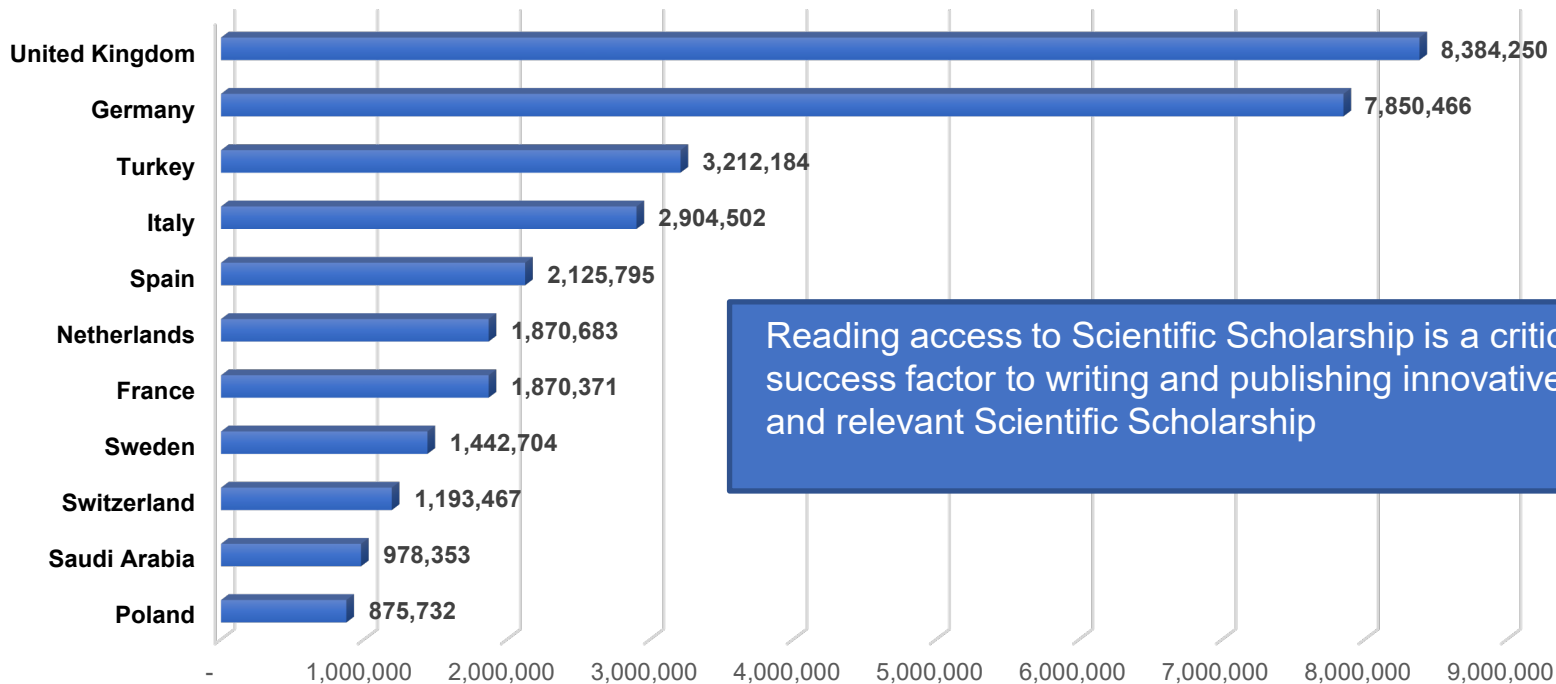
IEEE Authorship Symposium



Judy H Brady
IEEE Area Manager, Europe
29 September 2021

IEEE Xplore Digital Library – Reading Supports Writing

Full Text Usage by Country



Reading access to Scientific Scholarship is a critical success factor to writing and publishing innovative and relevant Scientific Scholarship

IEEE journals dominate their fields of interest

Clarivate ranks IEEE journals consistently at the top in Journal Impact Factors

IEEE publishes:

20 of the top 25 journals in Electrical and Electronic Engineering

9 of the top 10 journals in Telecommunications

3 of the top 5 journals in Artificial Intelligence

2 of the top 5 journals in Computer Science, Cybernetics

2 of the top 5 journals in Computer Science, Information Systems

2 of the top 5 journals in Automation and Control Systems

2 of the top 5 journals in Computer Science, Robotics

2 of the top 5 journals in Imaging Science and Photographic Technology

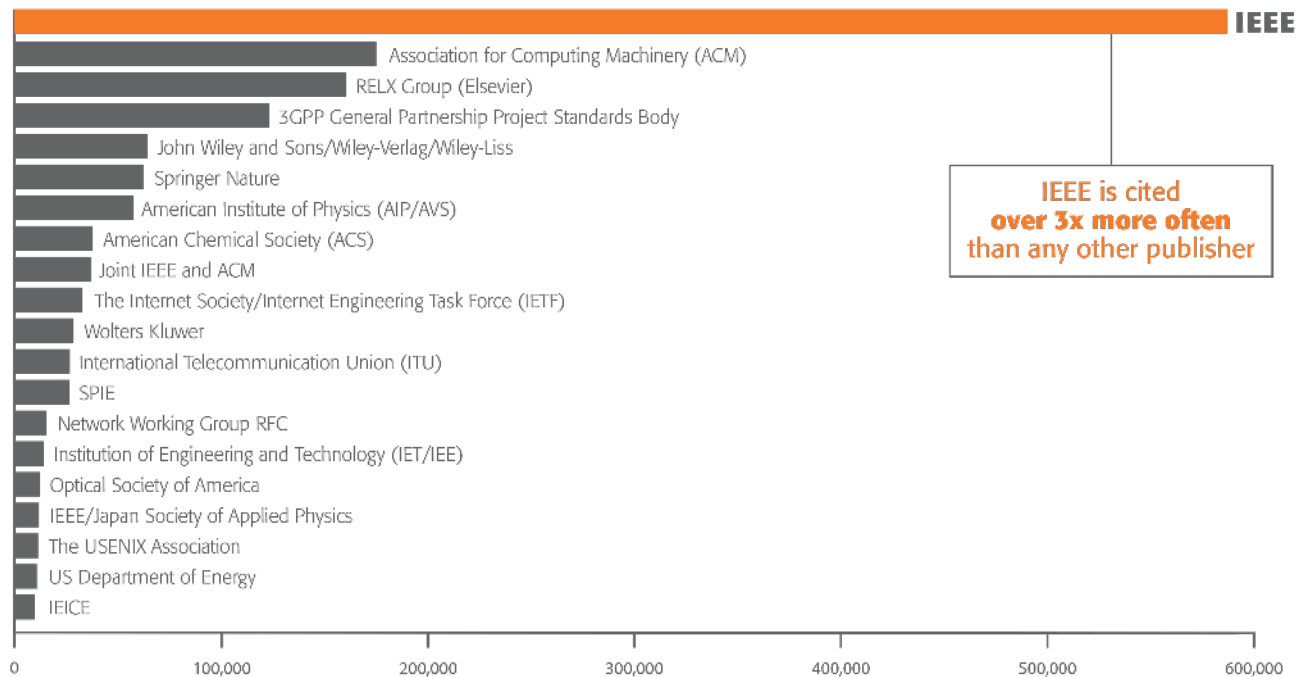
2 of the top 5 journals in Quantum Science and Technology

Source: 2020 Journal Citation Reports (Clarivate Analytics, 2021)

Journal Citation Reports present quantifiable statistical data that provide a systematic, objective way to evaluate the world's leading journals.

IEEE Leads in Patent Citations

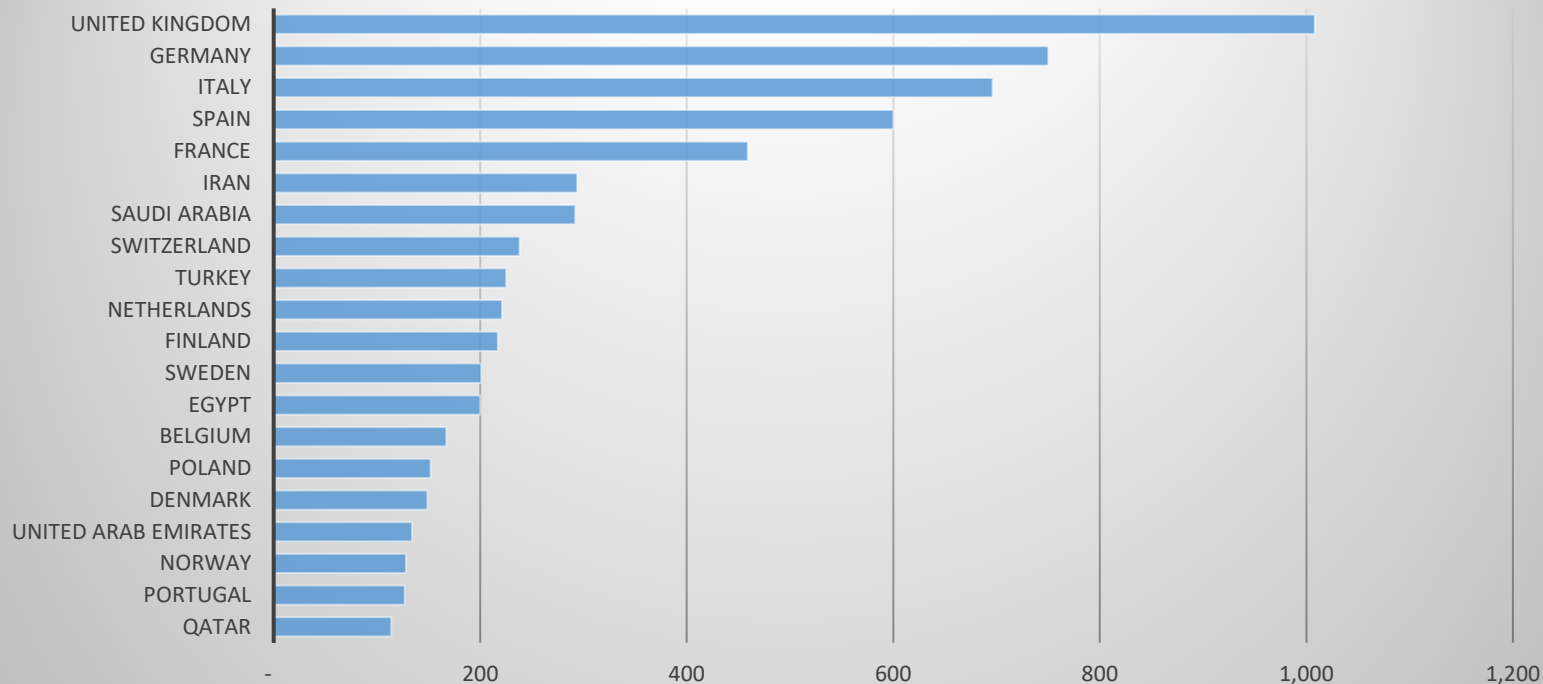
Top 20 Publishers Referenced Most Frequently by Top 50 Patenting Organizations in US Patent Citation



Europe & Middle East: 2021 YTD IEEE Journal Publishing

Top 15 Countries by IEEE Journal Output

Articles Published YTD 2021 - Top 20 Europe & Middle East Based on Order Date



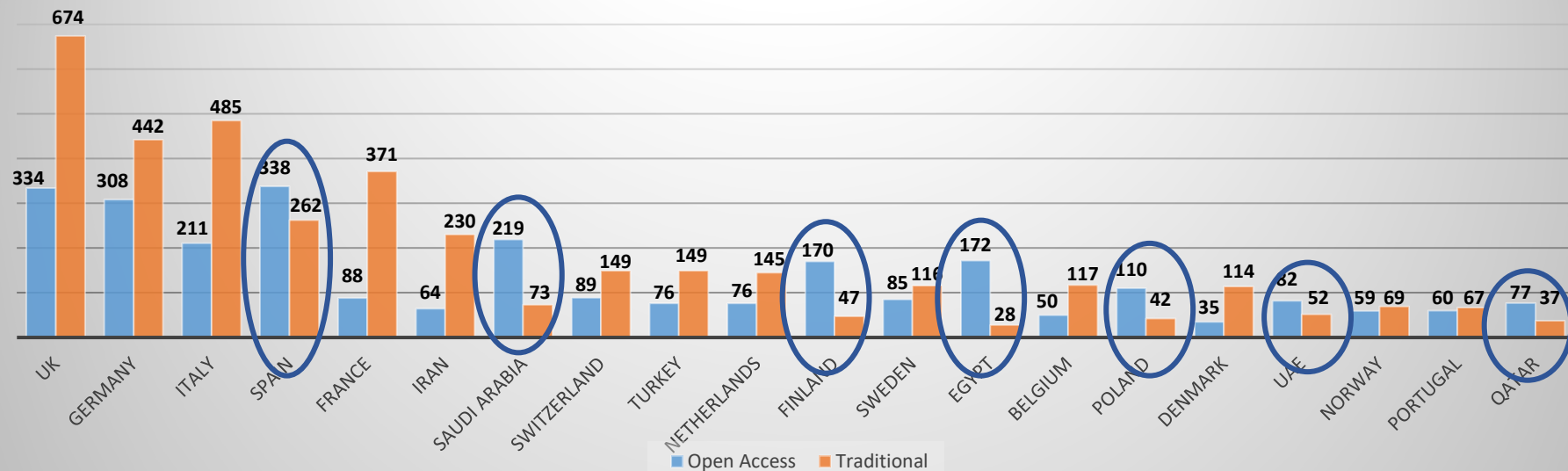
Source: IEEE
Publications
Department
August 2021



Europe & Middle East: Journal Article Output 2021 YTD

Corresponding author data only, By Country

2021 YTD Publishing by Country OA vs Traditional Based on Order Date



Source: IEEE Publications Department
August 2021



The Importance of Subscribing to IEEE *Xplore*

Subscribed Content Continues to Grow

Open Access option is available only in IEEE journals, ***not*** in conferences

Total IEEE subscribed content posted in 2020 grew by an average of **4.5%** over the past 5 years*

	New IEEE Subscribed Documents	Growth in IEEE Subscribed Documents	Total New IEEE Open Access Documents
2020	274,366	↑ 15.6%	22,324
2019	237,257	- 7%* Due to conf. posting delay	17,733
2018	255,096	↑ 3.4%	9,822
2017	246,723	↑ 7.4%	4,884
2016	229,771	↑ 3.2%	2,515

* IEEE content included in IEL includes journals,, conference and standards documents exclusively available to subscribers.
Source: IEEE *Xplore* journal data queries Feb 2021 and conference posting data from IEEE Meetings Conf. and Events Team

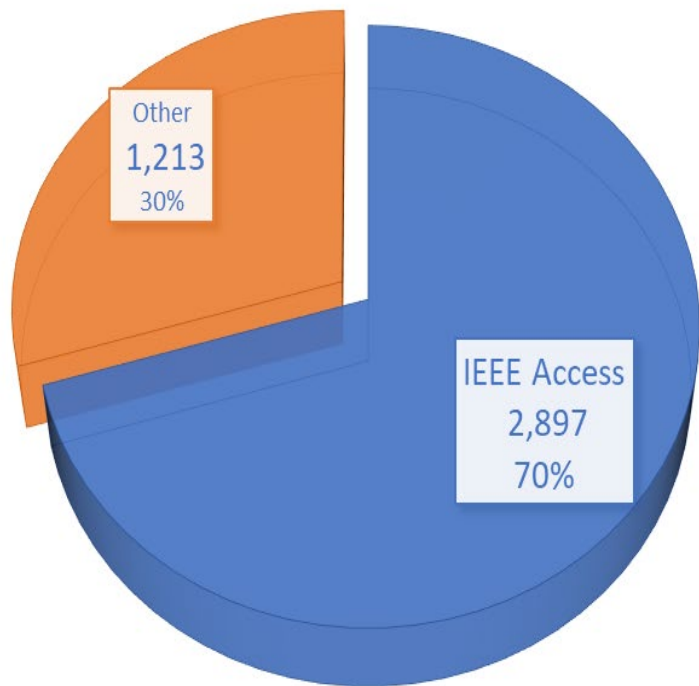
In all, IEEE publishes 26 fully Open Access journals

In the last 18 months, we have launched 17 new journals and flipped 2 existing journals to Open Access

- IEEE Access
- IEEE Journal of Electron Devices Society
- IEEE Journal of Exploratory Solid-State Computational Devices and Circuits
- *IEEE Journal of Microwaves – NEW!*
- *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing – FLIPPED!*
- IEEE Journal of Translational Engineering in Health and Medicine
- *IEEE Open Access Journal of Power and Energy – RETITLED!*
- *IEEE Open Journal of Antennas and Propagation – NEW!*
- *IEEE Open Journal of Circuits and Systems – NEW!*
- *IEEE Open Journal of Engineering in Medicine and Biology – NEW!*
- *IEEE Open Journal of Industry Applications – NEW!*
- *IEEE Open Journal of Intelligent Transportation Systems – NEW!*
- *IEEE Open Journal of Nanotechnology – NEW!*
- *IEEE Open Journal of Power Electronics – NEW!*
- *IEEE Open Journal of Signal Processing – NEW!*
- *IEEE Open Journal of the Communications Society – NEW!*
- *IEEE Open Journal of the Computer Society – NEW!*
- *IEEE Open Journal of the Industrial Electronics Society – NEW!*
- *IEEE Open Journal of the Solid-State Circuits Society – NEW!*
- *IEEE Open Journal of Ultrasonics, Ferroelectrics, and Frequency Control – NEW!*
- *IEEE Open Journal of Vehicular Technology – NEW!*
- IEEE Photonics Journal (flipped in 2012)
- *IEEE Transactions on Neural Systems and Rehabilitation Engineering – FLIPPED!*
- *IEEE Transactions on Quantum Engineering – NEW!*
- *IEEE Open Journal of Control Systems – COMING in 2022!*
- *IEEE Open Journal of Instrumentation and Measurement – COMING in 2022!*

Most choose IEEE Access for IEEE OA Options

Corresponding author data, 2020 IEEE Journals

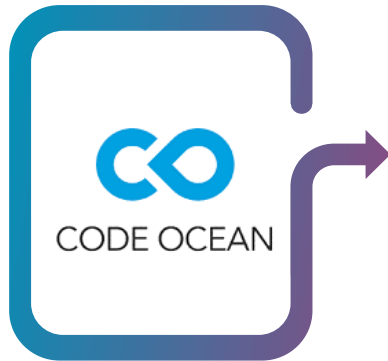


Source: IEEE Publications Department,
March 2021

Why?

- Outstanding editorial resources (over 1,500 expert associate editors and reviewers)
- Speedy submission-to-publication time (~6 weeks)
- Excellent citations and impact factor for a multidisciplinary journal
- Geographically and topically diverse

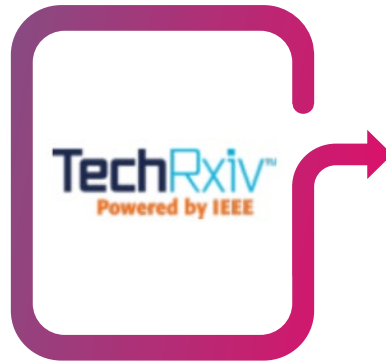
IEEE Open Science Solutions



Open Code from Studies

Upload code free of charge and users can access code without a subscription

FREE



Earliest Access to Studies

Post early and fully open versions of articles, prior to peer review

FREE



Open Data from Studies

Publish large data sets associated with research studies

FREE

with Coupon Code
DATAPORT1 till 12/31/2021



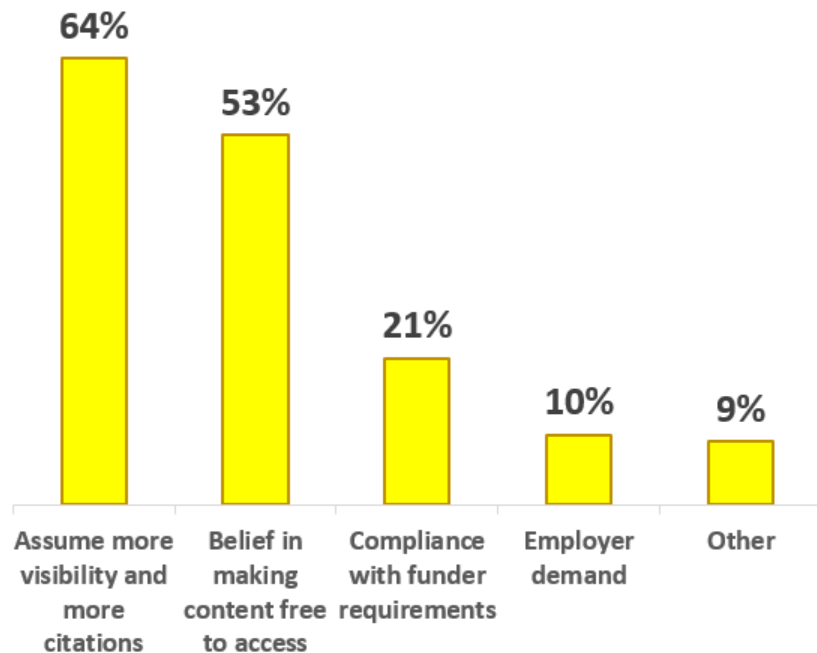
IEEE Open Access

IEEE offers 20+ Fully Gold open Access in the portfolio of Open Access

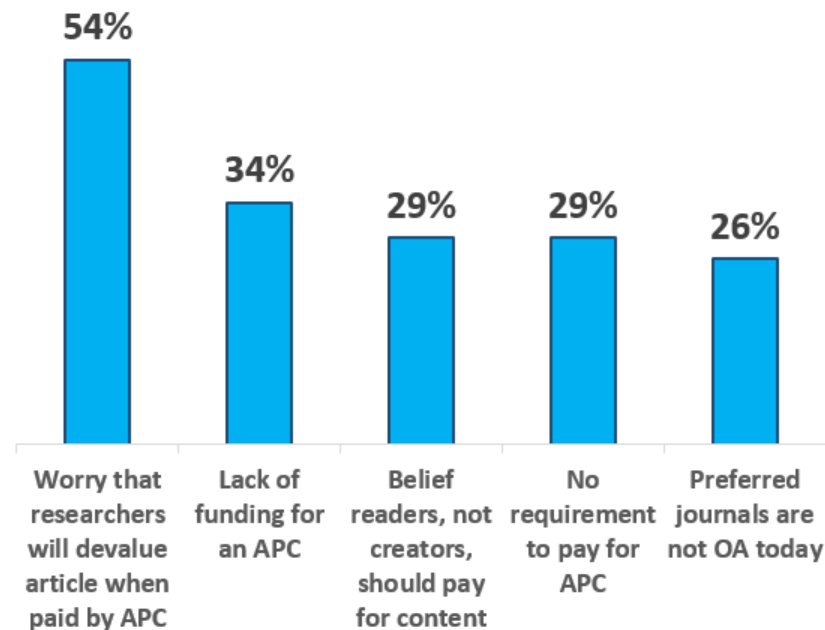
Top reasons for preference for type of journal for publication

Demand for visibility and likelihood of citations lead reasoning behind either journal model

Those preferring fully OA journals



Those preferring traditional journals



Costs associated with specific publishing options

IEEE provides many options for authors to publish as we strive to support the needs of all authors and readers globally.

Although IEEE offers many options to publish at no cost to the author, many authors do opt for certain fee-based offerings listed below which include:

- Article processing charges to support open access publishing options for most titles
- Option to exceed page limits
- Option to print graphics in color
Note: the online publication of graphics in color is **always free**

Options to avoid
any page length
or color fees

All fees help IEEE to maintain a quality publishing that is financially sustainable, produces the highest quality information possible, and ensures the information is easily discoverable in a robust and reliable digital platform.



IEEE
Author Center
Resources & Tools for Authors

Open Access

Your research funder may require that you publish open access, or you may simply want to maximize your audience by making your article freely available to read. IEEE offers several open access options to meet your needs. Learn more about our [open access publishing options](#), our [open access article processing charges](#), and our [open access publishing agreements](#).

Page Length

Most IEEE journals limit the number of pages per article. In some cases, you may choose to exceed the page limit by paying [overlength page charges](#), which vary according to the journal. If you choose to exceed the page limit, you will receive an invoice before article publication.

Color Printing

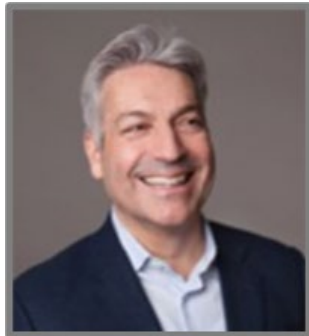
Online publication of your graphics in color is always free at IEEE. You may choose to also print your graphics in color for a fee of \$275 USD per color graphic. Once your accepted article enters the production stage, your IEEE Journal Production Manager will contact you to discuss color printing. You may choose to have your graphics in color online and in black and white in print at no cost.

ieeauthorcenter.ieee.org



*Request a custom
publishing report for your university...*

**IEEE Open Access R&P Programs,
Open Science Initiatives &
Access to IEEE Xplore Digital Library**



Paul Canning
p.canning@ieee.org



Judy Brady
j.brady@ieee.org



Eva Veloso
e.veloso@ieee.org

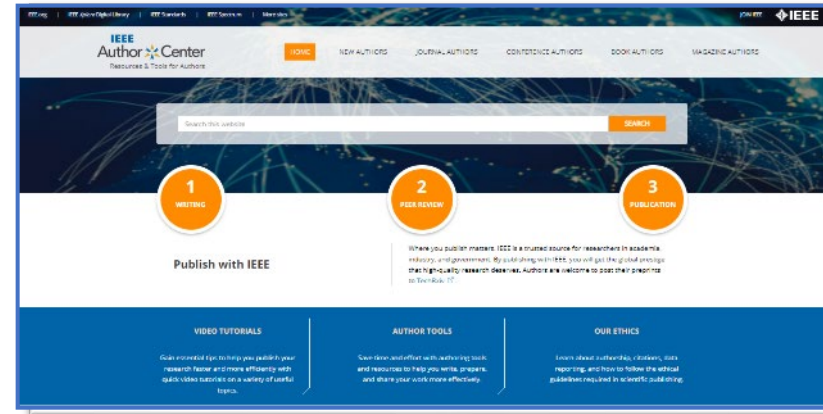
Additional tools and resources available from IEEE

More IEEE Tools for Authors

Get your article ready for submission quickly with help from IEEE Author Tools

IEEE Author Center's Support Tools:

- Find the right periodical or conference for your research with the **IEEE Publication Recommender**
- Directly find and load the template for the publication you are planning to submit to by following the easy prompts in the **IEEE Template Selector**.
- Speed up the article submission process by validating your LaTeX files with the **IEEE LaTeX Analyzer**
- Verify your reference list with **the IEEE Reference Preparation Assistant**
- Test if your article will display properly in the IEEE *Xplore*® Digital Library with the **IEEE PDF Checker**



IEEE Author Center:
ieeauthorcenter.ieee.org

For More on IEEE Open Access

IEEE Open (open.ieee.org)

- More information on OA options for authors and institutions
- Learn more about specific journals and titles
- Latest news on new and forthcoming titles
- FAQs for authors

IEEE Access (ieeaccess.ieee.org)

- Call for papers and announcements
- Submission guidelines
- FAQs
- Featured articles

The screenshot shows the IEEE Open Access website. At the top, there is a navigation bar with the IEEE OPEN logo on the left and the IEEE logo on the right. Below the navigation bar, there are four menu items: 'About IEEE Open Access', 'For Authors', 'For Institutions & Funders', and 'Publishing Options'. The main content area is titled 'IEEE Open Access Agreements with Institutions'. It contains several paragraphs of text explaining the open access programs and providing a list of institutions with open access agreements. There is a search box for institutions and a list of countries. At the bottom, there are logos for several institutions, including Aalto University, the University of Jyväskylä, Carl von Ossietzky Universität Oldenburg, and CERN.

open.ieee.org



Q&A session

Q&A

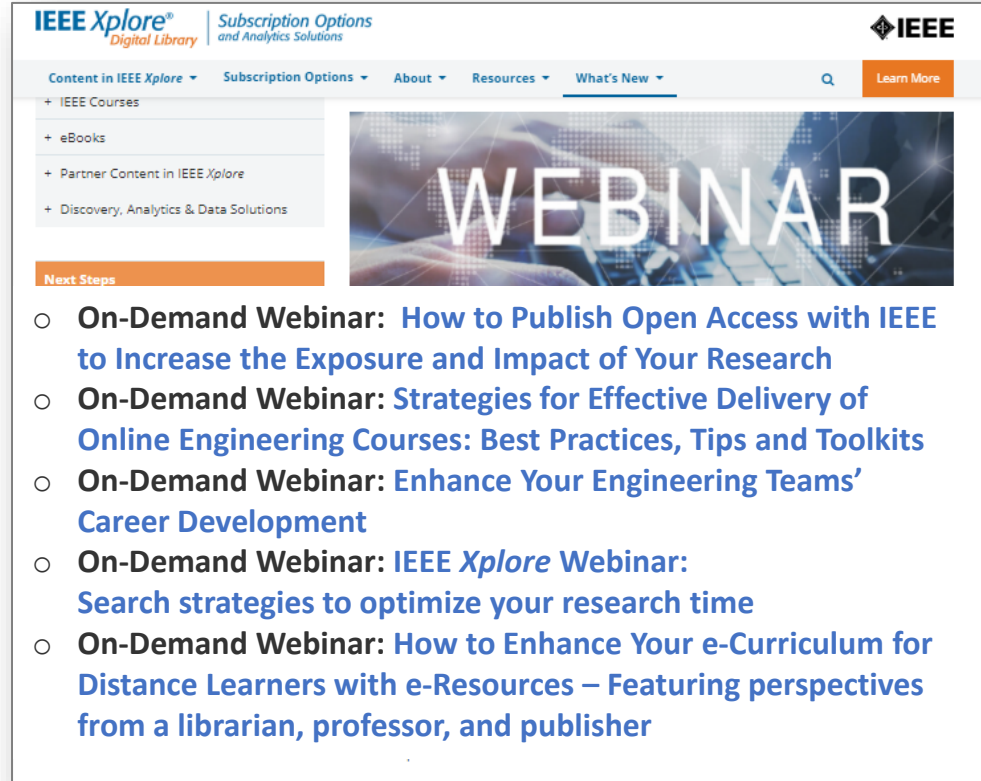
- **Questions for the Presenters**
- Please type your questions into the Q&A window. Our presenters will answer as many questions as possible during our time together



RESPONDING TO TODAY'S PANDEMIC: Free Resources from IEEE

- IEEE has a variety of live and on-demand webinars available to help universities and technology organizations adapt their curriculums and research strategies to support distance learning and remote work environments.
- Other available webinars provide tips and best practices to help researchers stay up to date by using intuitive new tools delivered by IEEE *Xplore*. We also offer resources to help authors get published and share their research with the technical community.
- Below is a link to register for upcoming and recorded sessions. All are free to attend and we encourage you to share this information with your colleagues.

<https://innovate.ieee.org/free-webinars-from-ieee/>



The screenshot shows the IEEE Xplore website interface. At the top, there is a navigation bar with the IEEE Xplore logo, 'Subscription Options and Analytics Solutions', and the IEEE logo. Below the navigation bar, there are several menu items: 'Content in IEEE Xplore', 'Subscription Options', 'About', 'Resources', and 'What's New'. A search icon and a 'Learn More' button are also visible. The main content area features a large banner with the word 'WEBINAR' in white text over a background of hands typing on a keyboard. Below the banner, there is a 'Next Steps' section with a list of upcoming webinars:

- **On-Demand Webinar: How to Publish Open Access with IEEE to Increase the Exposure and Impact of Your Research**
- **On-Demand Webinar: Strategies for Effective Delivery of Online Engineering Courses: Best Practices, Tips and Toolkits**
- **On-Demand Webinar: Enhance Your Engineering Teams' Career Development**
- **On-Demand Webinar: IEEE Xplore Webinar: Search strategies to optimize your research time**
- **On-Demand Webinar: How to Enhance Your e-Curriculum for Distance Learners with e-Resources – Featuring perspectives from a librarian, professor, and publisher**

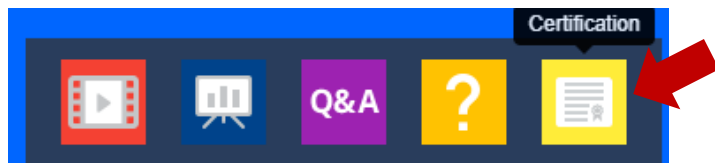
Thank you for your time!

Access to the recording of today's virtual event will be available 2 hours after the webinar. A link will be emailed to all registered attendees

IEEE Members – Vote by 1 October
www.ieee.org/elections

- **IEEE Access**
<https://ieeaccess.ieee.org>
- **IEEE Open Access Options**
open.ieee.org
- **IEEE Author Center**
<https://ieeauthorcenter.ieee.org>

Click the **Certificate Icon** at the bottom of the screen to request your Certificate of Participation:



Appendix:
*Additional reference material on
authorship guidance and resources*

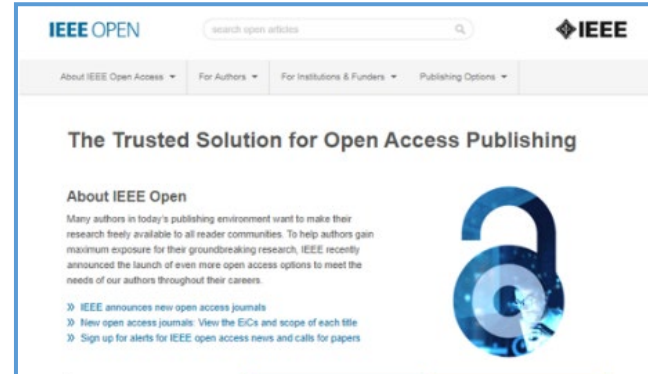
For More on IEEE Open Access Options

IEEE Open (open.ieee.org)

- More information on OA options for authors and institutions
- Learn more about specific journals and calls for papers
- Latest news on new and forthcoming titles
- FAQs for authors

IEEE Access (ieeaccess.ieee.org)

- Call for papers and announcements
- Submission guidelines
- FAQs
- Featured articles



open.ieee.org



Publish ORCID ID

ORCID

- Persistent unique 16-digit identifier
- IEEE (and many other publishers) require an ORCID ID to help tie an author to his or her publication record.
- Distinguishes you from every other researcher
- Collects all your professional activities in one place
 - Publications
 - Funding
- Employment, education, and publication record can all be linked to ORCID.
- Without ORCID, it's hard to distinguish between multiple authors with the same name, or get a complete publication history when authors change their names.
- For more information about ORCID, visit orcid.org.



IEEE Publications: Stay Current with Quality, Trusted Resources

- **Base your research on a quality resource you can trust.** Latest studies reinforce that IEEE has the top cited publications in a range of fields: *
 - 20 of the top 25 journals in Elec. Engineering
 - 9 of the top 10 journals in Telecommunications
 - 7 of the top 10 journals in Automation and Control
 - 3 of the top 5 journals in Artificial Intelligence
 - 6 of the top 10 journals in Computer Hardware
 - Cited in patents 3x more than any other publisher**
- Recent user studies demonstrate that users rely on IEEE Xplore to:
 - Increase productivity
 - Save time by not reinventing the wheel
 - **Keep up-to-date on emerging technologies**

* Based on the 2020 Clarivate Analytics Journal Citation Report study released July 2020

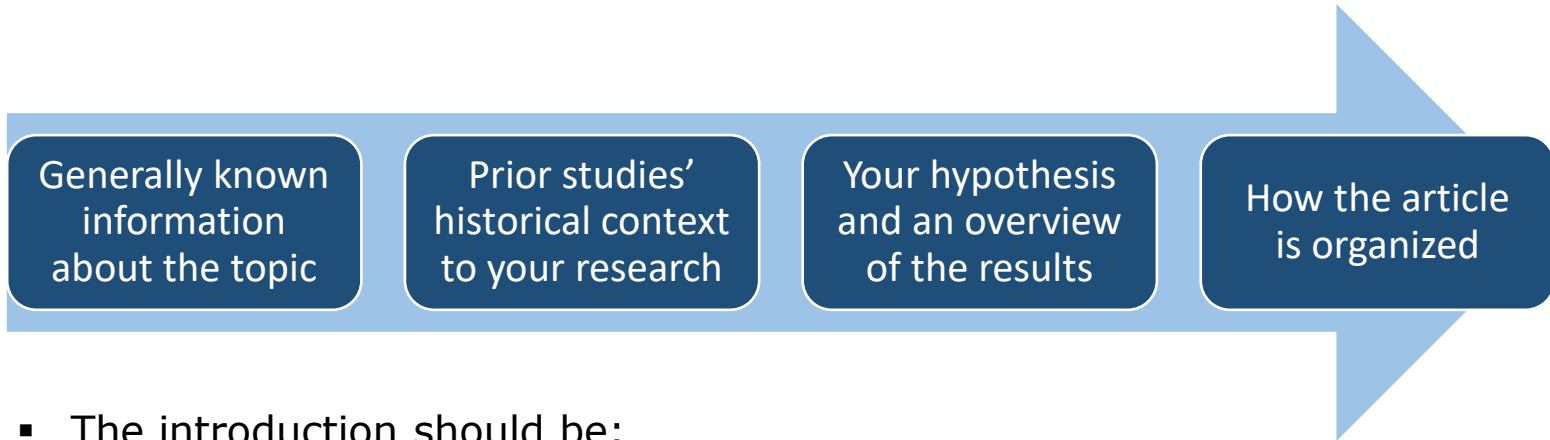
** Source: 1790 Analytics. More info: www.ieee.org/citations and www.ieee.org/patentcitations



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

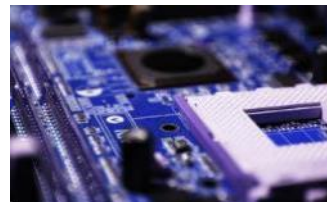
New IEEE Journal Titles for 2020 and 2021

These new journal titles* will soon be available and accessible via an IEL subscription:

- IEEE Jnl of Emerging and Selected Topics in **Industrial Electronics**
- IEEE Journal on Selected Areas in **Information Theory**
- IEEE Transactions on **Technology and Society**
- IEEE Transactions on **Artificial Intelligence**
- IEEE BITS the **Information Theory Magazine**

Coming in 2022: IEEE Transactions on **Signal and Power Integrity**

Coming in 2022: IEEE Journal on **Flexible Electronics**



*Please note this is a tentative list and is subject to change.