



Understanding the Publishing Process: Behind the Scenes with IEEE

Brian Ryckman, IEEE Client Services Manager



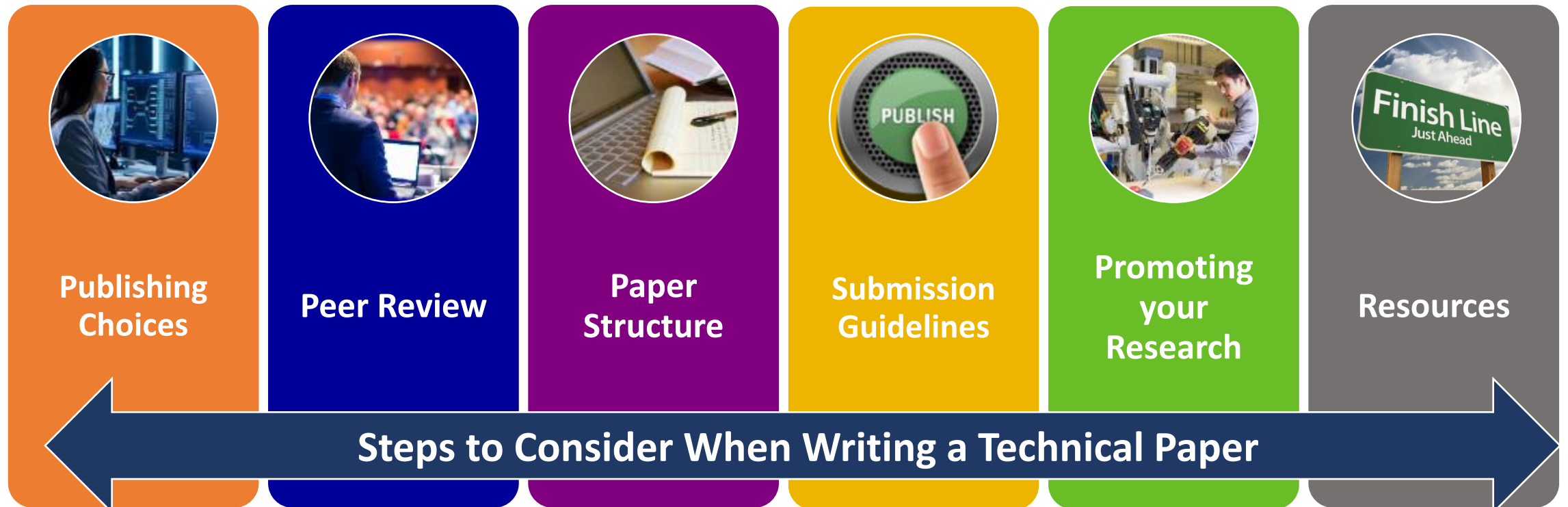
What we do

- IEEE is the world's largest technical membership association with more than 420,000 members in over 160 countries
- Publish the top-cited science and technology research in the field, most notably journals, conferences and standards
- Publish approximately 200 journals, transactions, and magazines
- Sponsor more than 2,000 annual conferences worldwide
- Leading developer of over 5,100 industry standards in a broad range of technologies
- Hundreds of hours of IEEE eLearning courses
- Publish technical books in all the fields served by IEEE
- Not for profit organization "Advancing Technology For Humanity"



Today's Author Workshop

Topics Covered



Publishing Choices

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 paper** 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 has over **200 publications** covering a wide range of technical

- Review the journal listings
 - Who reads it
 - What they publish
 - What kinds of articles they want

IEEE publishes over **2,000 leading-edge conference proceedings**

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

Publish

Evolution of Research

- ▶ IEEE supports researchers and the evolution of their research. The later work must build upon the earlier work.
- ▶ Reference the prior publication and indicate what's different.
- ▶ Presentation itself is not considered prior publication, but publication in conference proceedings does count as prior publication.
- ▶ Recorded presentations and annotated PPTs may be published in *IEEE Xplore*



Publish

Picking the Right Publication

- Try the IEEE Publication Recommender
- Look at the publications cited in your references
- Ask your supervisor or other colleagues experienced in publishing for recommendations
- Run a keyword search in IEEE *Xplore*
- Sign up for Content Alerts
- Read leading journals in the field of your article

Tip: Read the Aims & Scope of your target publication.

The screenshot shows the IEEE Publication Recommender homepage. At the top, there are navigation links for IEEE.org, IEEE Xplore Digital Library, IEEE Author Center, IEEE-SA, IEEE Spectrum, and More Sites. The main heading is "IEEE Publication Recommender™" with the tagline "Find the best match for your scholarly article". Below this, there are two columns of bullet points: "Search 190+ periodicals and 1600+ conferences", "Compare critical points such as Impact Factor and Submission-To-Publication Time", "Get all the key data about IEEE publications at a glance", and "Download the results of your search". The central section is titled "Choose a search type and let Publication Recommender do the work!". It features three radio buttons for search types: "Both Periodicals and Conferences" (selected), "Periodicals only", and "Conferences only". There is a text input field for "Enter keywords, key phrases, or article title" and a button for "Extract keywords from your article" which includes a sub-field for "Enter your abstract or drag your article file here (PDF, DOC, DOCX, TXT)" and an "Add more files" button. Below this is a "Narrow by date:" section with an optional date input field and a "Get Recommendation" button. A secondary section offers to "find details for a specific Periodical or Conference" with a text input field. The footer contains links for IEEE.org, Contact & Support, Accessibility, Membership/Join IEEE, Privacy & Return of Content, and Feedback, along with the IEEE logo and tagline "Advancing Technology for Humanity".

<https://publication-recommender.ieee.org/home>

Impact Factor is Not Enough of a Metric

- ▶ Journal's reputation in the community is important
- ▶ For new and lesser known journals, look at the editorial board and the qualifications / CVs.

Other ways of evaluating a journal's value to the engineering community

- ▶ Number of Downloads (IEEE uses this information for revenue distribution)
- ▶ Patent Citations (Available from IEEE)
- ▶ Other Metrics (Article Influence Score, Eigenfactor)

Open Access

Open Access

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 agreement than traditional publication

What are predatory journals?

Predatory publishing is an exploitive publishing business model that involves charging publication fees to authors with minimal or no peer review, poor production quality and difficult to find.

Be wary of:

- Unprofessional website
- Flattering, urgent submission invitations
- Unusual scope
- Absence from popular indices

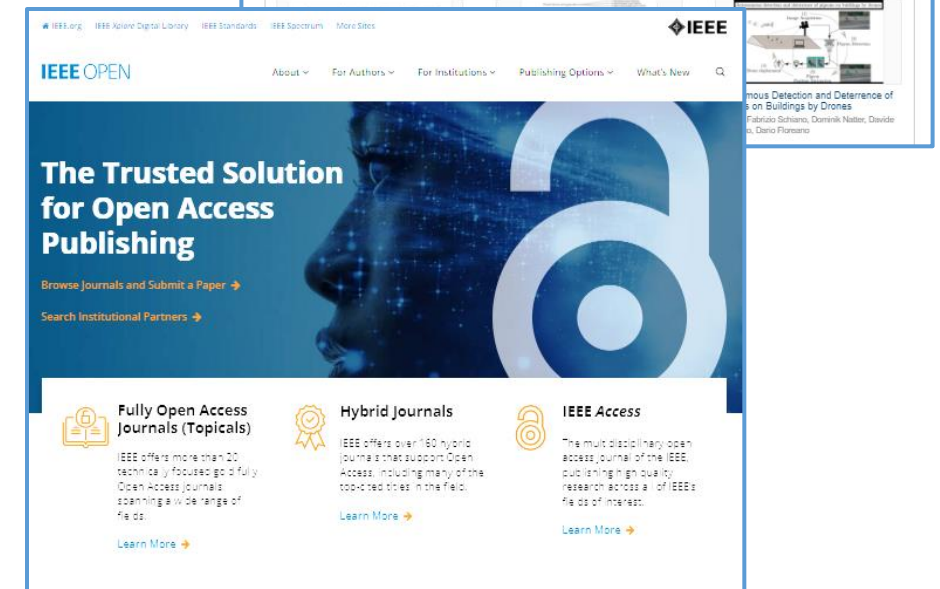
IEEE's Evolving Open Access Program

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. These titles have Transformative Status under Plan S.
- 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 60,000 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 100,000 open access articles in IEEE *Xplore*.





Open Access at IEEE

Workflow for IEEE OA OnDemand– 2023

This portion of the presentation is meant for current or prospective open access authors and administrators. It shows the process of open access (OA) publication from submission to publication.

- Submission process
- Post acceptance
- RightsLink for Scientific Communications (RLSC)

Author Process: Submission

Submission – Step 1

<https://publication-recommender.ieee.org/home>

IEEE Publication Recommender helps authors find the most suitable journal and displays journal's OA Status with submission URL

Note: Open Access status clearly displayed in results.

The screenshot displays the IEEE Publication Recommender interface. On the left, there are search options: 'Both Periodicals and Conferences', 'Periodicals only', and 'Conferences only'. A search box contains 'Electron Devices'. Below the search box, there are sections for 'PERIODICALS' and 'CONFERENCES'. The 'PERIODICALS' section lists 'Electron Devices, IEEE Transactions on Electron Devices Society, IEEE Journal of the Electron Device Letters, IEEE'. The 'CONFERENCES' section lists '2020 IEEE International Electron Devices Meeting (IEDM)', '2021 IEEE International Electron Devices Meeting (IEDM)', '2023 International Electron Devices Meeting (IEDM)', '2022 International Electron Devices Meeting (IEDM)', and '2024 IEEE International Electron Devices Meeting'. On the right, there is a detailed view of the 'Periodical: Electron Devices Society, IEEE Journal of the Electron Devices Society'. This view includes a table of metrics: Impact Factor (2), Eigenfactor (0.00259), and Article Influence Score (0.764). It also shows 'Open Access Availability: Open Access Only', 'Submission to Publication in Xplore: Not yet available', and 'Issues per year: 1'. The 'Aims & Scope' section describes the journal as an open-access, fully electronic scientific journal publishing papers ranging from fundamental to applied research. The 'Published By' section indicates 'Not yet available'. The 'Go to Periodical home page' section provides a URL: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6245494>. The 'Contact' section indicates 'Not yet available'. An orange arrow points from the 'Open Access Availability' section to the 'Open Access Only' status.

IEEE Publication Recommender™
Find the best match for your scholarly article

- Search 190+ periodicals and 1800+ conferences
- Compare critical points such as Impact Factor and Submission-To-Publication Time
- Get all the key data about IEEE publications at a glance
- Download the results of your search

Choose a search type and let Publication Recommender do the work!

- Both Periodicals and Conferences
- Periodicals only
- Conferences only

Narrow by date: (Optional)

Or, find details for a specific publication

Enter the name of a periodical or conference

Periodical: Electron Devices Society, IEEE Journal of the Electron Devices Society

Impact Factor:	2
Eigenfactor:	0.00259
Article Influence Score:	0.764

Open Access Availability: Open Access Only

Submission to Publication in Xplore: Not yet available

Issues per year: 1

Published By: Not yet available

Go to Periodical home page: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6245494>

Contact: Not yet available


Aims & Scope:
The IEEE Journal of the Electron Devices Society (J-EDS) is an open-access, fully electronic scientific journal publishing papers ranging from fundamental to applied research that are scientifically rigorous and relevant to electron devices. The J-EDS publishes original and significant contributions relating to the theory, modelling, design, performance, and reliability of electron and ion integrated circuit devices and


Submission – Step 1 – in IEEE Xplore

Browse Journals & Magazines

<https://ieeexplore.ieee.org/browse/periodicals/title?refinements=Publisher:IEEE&showActiveTitlesOnly=true>


By Title | By Topic | Virtual Journals

Search by keywords 

Browse Titles 





A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0 - 9 | All


Displaying Results 1-25 of 223

▼ Filters Applied: IEEE 

Refine results by

Show

- All Results
- Open Access Titles Only  
- Titles with Some Open Access  

Show active titles only 

IEEE Access

Publisher: IEEE Years: 2013 - Present Most Recent Issue

IEEE Aerospace and Electronic Systems Magazine

Publisher: IEEE Years: 1986 - Present Most Recent Issue


IEEE Transactions on Aerospace and Electronic Systems


Publisher: IEEE Years: 1965 - Present Most Recent Issue




Submission – Step 1 – in IEEE Xplore

IEEE Open Journal of Antennas and Propagation

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The IEEE Open Journal of Antennas and Propagation covers antennas, including analysis, design, development, measurement, standards, 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 at all frequencies.

The IEEE Open Journal of Antennas and Propagation (IEEE OJAP) welcomes contributions covering aspects from theory and design to applied engineering innovations, topical review, and perspective articles. The journal publishes papers on mature topics as well as on emerging fields, including those at the nexus of other engineering and science disciplines that are dependent upon antennas and propagation. IEEE OJAP is committed to supporting open and transparent research exchange and enabling authors to embrace best practices in data and code sharing.

This journal is 100% open access. [Learn more.](#)

[rigorous peer review](#) | [rapid publication](#)

This journal is 100% open access, which means that all content is freely available without charge to users or their institutions. All articles are



Submission process

- The corresponding author will complete the submission process.
- Authors submitting to fully OA journals will be asked to accept OA terms and charges during Step 1.
- Authors submitting to hybrid journals will not be asked to select OA until after acceptance.

Submission – Step 1 – Fully OA journal

ScholarOne Manuscripts™ | Alison Larkin | Instructions & Forms | Help | Log Out

IEEE Power and Energy Technology Systems Journal

Home | Author | Review | Manage | Support

Author Dashboard / Submission

Submission

- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 1: Type, Title, & Abstract >
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- Step 2: Attributes >
- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 3: Authors & Institutions >
- Step 4: Reviewers >
- Step 5: Details & Comments >
- Step 6: File Upload >
- Step 7: Review & Submit >

Step 1: Type, Title, & Abstract

Select your manuscript type. Enter your title and abstract into the appropriate boxes below. If you need to insert a special character, click the "Special Characters" button. When you are finished, click "Save and Continue." [Read More ...](#)

* = Required Fields

* Type: Edit

CHOICE	TYPE
<input type="radio"/>	Journal paper

* Title Edit

Preview Special Characters

0 OUT OF 300 CHARACTERS

* Abstract Edit

Write or Paste Abstract

Preview Special Characters

0 OUT OF 200 WORDS

Open Access Agreement

* I have read and agree to the terms below.

By submitting this manuscript to the IEEE Open Journal of Antennas and Propagation, I agree that if accepted, it will be published as open access and that I am responsible for the open access publication fee of US \$1,950.

Some institutions offer assistance for open access funding. Check our [institutional partners list](#) to see if yours is one.

Save Save & Continue >

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Some institutions offer assistance for open access funding. Check our [institutional partners list](#) to see if yours is one.

The institutional partners list goes to <https://open.ieee.org/for-institutions/institutional-partners/>



IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

IEEE OPEN

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Search for Institution

All Australia Austria Belgium Canada China Colombia Finland Germany Greece Hong Kong Hungary India Ireland Italy Lebanon Netherlands Poland Qatar Spain Sweden Switzerland United Arab Emirates United Kingdom United States

Aalto University

AGH

安徽师范大学

安徽工业大学

Submission – Step 1 – Hybrid journal

Submission

- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 2: Authors & Institutions >
- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 2: Authors & Institutions >
- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 2: Authors & Institutions >
- Step 1: Type, Title, & Abstract >
- Step 2: Attributes >
- Step 3: Authors & Institutions >
- Step 4: Reviewers & Editors >
- Step 5: Details & Comments >
- Step 6: File Upload >
- Step 7: Review & Submit >

Step 1: Type, Title, & Abstract

Select your manuscript type. Enter your title, running head, and abstract into the appropriate boxes below. If you need to insert a special character, click the "Special Characters" button. When you are finished, click "Save and Continue." [Read More ...](#)

* = Required Fields

* Type [Edit](#)

CHOICE	TYPE
<input type="radio"/>	Regular paper
<input type="radio"/>	Letter to the Editor

* Title [Edit](#)

Preview [Special Characters](#) 0 OUT OF 250 CHARACTERS

* Abstract [Edit](#)

Write or Paste Abstract

Preview [Special Characters](#) 0 OUT OF 250 WORDS

Save [Save & Continue >](#)

Open Access question is not present at submission for hybrid publications

Submission – Steps 2 and 3

Step 2: the author will upload their manuscript files

Step 2: File Upload

Please only upload Word files, TIFF files and JPEG files for images. [Read More ...](#)

* = Required Fields

Files

0.00 OUT OF 58.59 MB

ORDER	ACTIONS	FILE	* FILE DESIGNATION	UPLOAD DATE	UPLOADED BY
No files uploaded					

[Update Order](#)

File Upload

SELECTION	FILE DESIGNATION
Select File 1 ...	* Main Document
Select File 2 ...	Choose File Designation ...
Select File 3 ...	Choose File Designation ...

[Upload Selected Files](#)

[Previous Step](#) [Save](#) [Save & Continue >](#)

Step 3: the author will upload their attributes, or keywords

Step 3: Attributes

To enter your manuscript attributes/keywords, you may do it in two different ways:

- Search the journal's list of keywords, by typing in a term and clicking **Search**, or
- Select your keywords from the list (Control-Click to select multiple words), and click **Add**.

When you are finished, click **Save and Continue**.

[Read More ...](#)

* = Required Fields

* Keywords

[+ Add](#)

- Hide Full List

- Memory
- Midbrain
- Molecular Biology
- Adolescent Patient Care
- Article
- html
- naner

[+ Add from List](#)

Submission – Step 4

Step 4: author enters metadata

Corresponding author adds affiliation data for all authors.

The institution entered will be used to match the author with an institutional OA agreement with Ringgold API.

Submission

- Step 1: Type, Title, & Abstract >
- Step 2: File Upload >
- Step 3: Attributes >
- Step 4: Authors & Institutions >**
- Step 5: Reviewers & Editors >
- Step 6: Details & Comments >
- Step 7: Review & Submit >

Enter your co-authors' information in the boxes below, then click "Add to My Authors." To check if an author already exists in the journal's database, enter the author's e-mail address and click "Find." If the author is found, their information will be automatically filled out for you. When you are finished, click "Save and Continue."

* = Required Fields

Authors

* Selected Authors [Edit](#)

ORDER	ACTIONS	AUTHOR	INSTITUTION
1	Select...	Larkin, Alison a.larkin@ieee.org 0000-0001-6438-6457 ✓	1. IEEE, Publishing Operation 405 Hoes Lane Piscataway, NJ, USA 08854 732-562-6536 2. IEEE

Drag

Add Author

Find using Author's email address

[< Previous Step](#)

Ringgold is integrated in submission system

Create New Author [Edit](#)

Institution 1

Quick Fill [Edit](#)

Institution Number: 1

* Institution: [Edit](#) IEEE

* Department: IEEE
New York, NY, US, other/learned
INEE

* Country / Region: Paris, Ile-de-France, FR, academic/govt
IEEI
Chicago, IL, US, academic/hospital
IESE
Buenos Aires, AR, academic

State/Province:

* City: IESEG School of Management
Lille, Nord-Pas-de-Calais, FR, academic/bus

****Authors should use their institutional email address****

Submission – Step 5 & 6

Step 5: the author enters funder info (when applicable)

The screenshot shows a submission form with a sidebar on the left containing a navigation menu. The main content area is titled "Write Cover Letter" and includes a text input field with a character count of "0 OUT OF 32768 CHARACTERS". Below this is a "Funding" section with a question: "* Is there funding to report for this submission?" and radio buttons for "Yes" and "No". The "Yes" option is selected. Below the funding section is a "Funders" section with an "Add Funder" button and a table with columns "ACTIONS", "FUNDER", and "GRANT / AWARD NUMBER". The table currently contains the text "No Funders Entered".

Submission

- Step 1: Type, Title, & Abstract >
- Step 2: File Upload >
- Step 3: Attributes >
- ✓ Step 4: Authors & Institutions >
- Step 5: Details & Comments >**
- Step 6: Review & Submit >

Write Cover Letter

Preview Ω Special Characters

0 OUT OF 32768 CHARACTERS

Funding Edit

* Is there funding to report for this submission?

Yes No

Funders Edit

ACTIONS	FUNDER	GRANT / AWARD NUMBER
No Funders Entered		

Add Funder

Step 6: the author reviews and submits

The screenshot shows a "Submission Confirmation" page with a "Thank you for your submission" message. Below the message is a table with submission details.

Submission Confirmation

Thank you for your submission

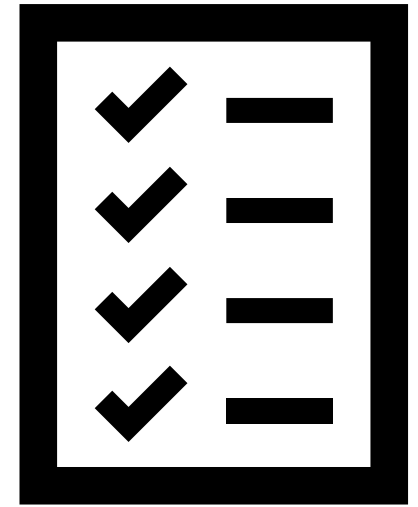
Submitted to	ScholarOne University Training Workflow 1
Manuscript ID	MCU1-201803-0001-OA
Title	The process of documentation
Authors	Baker, Gwen Bryant, Luke

Articles can match a RLSC profile based on funder in addition to institutional affiliation

Author Process: Acceptance and Copyright

Acceptance

- If the manuscript is accepted, the author will be prompted to upload the final files and choose a copyright license.
- Hybrid journal authors will choose to publish open access or traditional (closed).



Post acceptance – upload final files

Author Dashboard

1 Unsubmitted and Manuscripts in Draft >

1 **Awaiting Final Files** >

Start New Submission >

Legacy Instructions >

5 Most Recent E-mails >

Awaiting Final Files

ATTENTION: As part of your final file submission you *MUST* upload:

1. A source file for your manuscript in Word or LaTeX format AND
2. A final version of your manuscript in PDF format named "FINAL VERSION.PDF"

Your source files can be uploaded in a zip file, but you *MUST* upload your final PDF as an individual file.

ACTION	STATUS	ID	TITLE	SUBMITTED	DECISIONED
	ADM: Plaza, Antonio ADM: Larkin, Alison	TGRS-2017-00761	This is a test paper	11-Jul-2017	11-Jul-2017

Submit Final Files

- Accept (11-Jul-2017)

Graphics Checker

- Accept for Final Submission

[view decision letter](#)

Post acceptance – hybrid review

Open Access

* This publication is a hybrid journal, giving authors the choice of making their article freely accessible to users by paying an open access article processing charge (APC), or choosing traditional article publication, allowing access to users through subscription and other purchasing options. Now that your article has been accepted for publication you may enable unrestricted public access by selecting "yes" below. If you select yes, you commit to pay the US \$2,350 APC.

Although voluntary page charges do not apply to open access article submissions, other applicable charges (such as over-length paper charges or a charge for the use of color in print format) will be billed separately once article formatting is complete (but prior to publication). Over-length paper charge details can be found [here](#).

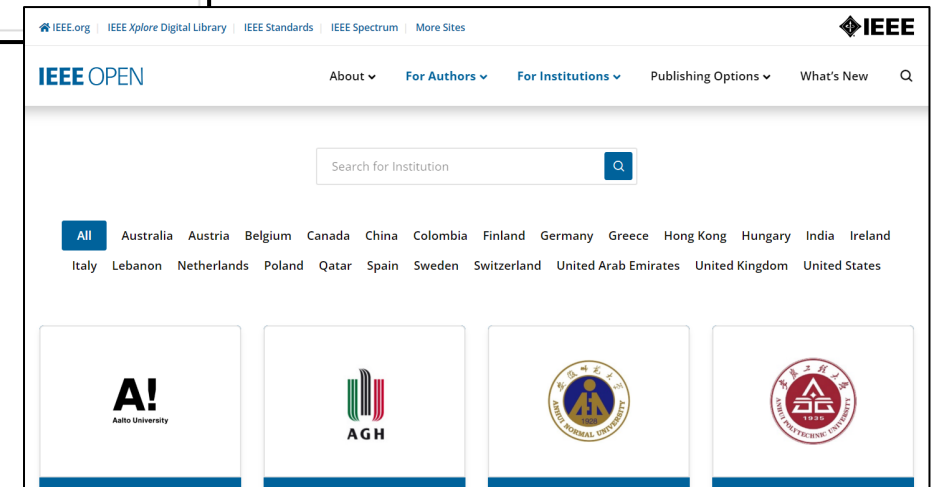
For any questions regarding IEEE open access policies, please refer to our [Frequently Asked Questions on open access](#).

- Yes** - please make my article Open Access. I understand that there is a \$2,350 APC associated with Open Access publication. Some institutions offer assistance for open access funding. Check our [institutional partners list](#) to see if yours is one.
- No** - my article is a traditional submission. I understand that over-length paper charges or color charges may still apply, as outlined above.

IEEE supports author choice when publishing in a hybrid journal.

Hybrid journal authors are asked to select open access or traditional (closed) after acceptance.

The institutional partners list goes to <https://open.ieee.org/for-institutions/institutional-partners/>



The screenshot shows the IEEE OPEN website's institutional partners page. At the top, there's a navigation bar with links to IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites. Below that, the 'IEEE OPEN' logo is displayed alongside navigation links for 'About', 'For Authors', 'For Institutions', 'Publishing Options', and 'What's New'. A search bar labeled 'Search for Institution' is present. A horizontal list of country names is shown, with 'All' selected. Below the country list, several institutional logos are displayed, including Aalto University, AGH, and others.

Post acceptance – copyright selection

After acceptance, authors will be prompted to choose a copyright license using the IEEE Electronic Copyright Form (eCF).

- Authors publishing in hybrid journals may choose between:
 - **CC-BY**: author retains copyright and the article is published open access
 - **CC-BY NC-ND**: author retains copyright in a more restrictive license than CC-BY in that the article may not be reused for commercial purposes, nor may the article be changed in any way
 - **Traditional** license in which copyright is transferred to the publisher and the article is published behind a paywall
- Authors publishing in gold journals may choose between **CC-BY** or **CC-BY NC-ND**.
- Authors should confirm any license restrictions set by the institution.

IEEE Electronic Copyright Form (eCF)

1. Confirm that the article details are correct.
2. Confirm the paper's originality
3. OA Authors must agree "to pay" an APC (Article Processing Charge)
4. Select and sign CC-BY license type
5. Download a copy of the agreement

IEEE Publication Agreement

1 2 3 4 5

Select Language | ▼

Step 4: Complete the publication agreement

You may view and download a read-only version of the agreement in a selected language. You will need to sign the English version of the form below. [Click to View](#)

► Creative Commons Attribution License

Article Title: My groundbreaking article

Publication Title: IEEE ACCESS

Authors: Krista Thom

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Information

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Post acceptance – hybrid journal reminder of funding

Subject line: Eligibility for Open Access funding - JPV-2021-03-0098-R,
10.1109/JPHOTOV.2021.3086455

Dear \${system/salutation} \${system/fname} \${system/lname}:

The following article has been accepted for publication by the IEEE, \${system/article_title},
\${system/doi} and may be eligible for open access funding.

We have identified you as belonging to an institution (\${system/institution}) that has an open access agreement with IEEE. As such, you may be eligible for open access funding which covers 100% of the Open Access charges. If you would like to take advantage of this agreement and make your article open access, please contact your Journals Production Manager, \${system/journal_coordinator}, \${system/journal_coordinator_email} to request changing the publishing agreement from IEEE copyright to the Creative Commons (CCBY) license.

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<https://institutions.open.ieee.org/for-institutions-funders/institutional-partners/>

Thank you for publishing with IEEE!
\${system/journal_coordinator}
\${system/journal_coordinator_email}

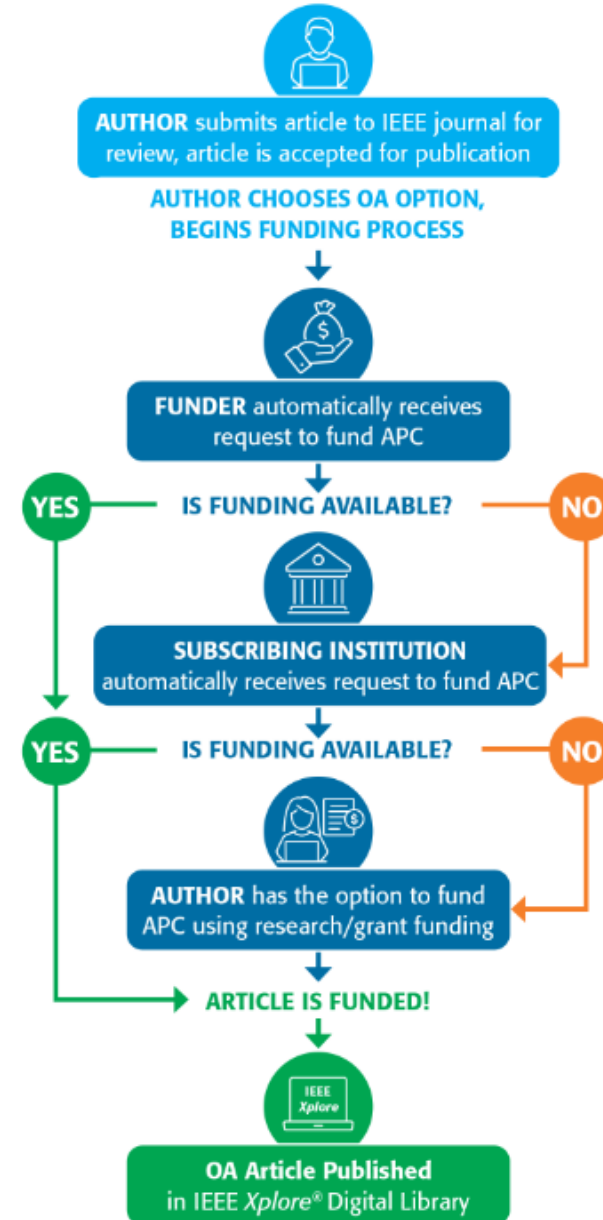
Authors who choose to publish traditional (non-OA) in a hybrid title will receive an email reminding them of the OA agreement with IEEE and their institution when an active OA agreement is present based on the corresponding author affiliation.

Note: Email is only sent if institutional RLSC profile matched by the article is touch-free.

APC Process: RightsLink for Scientific Communications (RLSC)

IEEE OA OnDemand Overview

- All article processing charges (APCs) are handled through CCC RLSC.
- After acceptance, authors will receive an email prompting them to pay all charges through RLSC.
- RLSC will automatically send a funding request to any applicable funders, and then to the institution for review and approval.
- The article is matched to profiles in RLSC using author-provided affiliation data including Ringgold IDs and email domains.
- If no external funding is available, the author will receive a % discount off the APC.



Article Acceptance

A funding request is automatically sent to the funder and/or institution when a manuscript matches the touch free profile.

The author receives an email when the request is approved or denied by the funder and/or institution.



Your article has been accepted and will be published open access

Dear Mr. Ruben Garcia Alia,

Congratulations on being accepted for publication in *IEEE Geoscience and Remote Sensing Letters* for the following manuscript:

Manuscript DOI: 10.1109/JTEHM.2019.529447

Manuscript ID: TNS-003417-445

Manuscript Title: This is a touch free OA only profile test

Published by: Institute of Electrical and Electronics Engineers (IEEE)

Total Charges Covered: 2045.00 USD

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RLSC Institutional Portal dashboard

The screenshot shows the RLSC Institutional Portal dashboard. At the top left is the Copyright Clearance Center logo. The main header includes the text 'Institutional Portal' and a user greeting 'Welcome, Shannon Reville' with a 'Sign Out' link. There are also links for 'Help' and 'Live chat'. Below the header, a welcome message explains the portal's purpose. To the right, the 'Account Name' is set to 'IEEE University' with an account number of 7001904909. A navigation bar contains three tabs: 'Billing Profiles', 'Funding Requests', and 'Reports'. A text box explains that the table below shows funding requests matched to special billing profiles. Two buttons, 'APPROVE' and 'DENY', are shown with their respective functions. Below this, a table lists funding requests with columns for Order Date, Article Title, Primary Author, Funder, Publisher, Profile Name, Total Fees Due, Status, and Actions. An orange arrow points to the 'APPROVE' and 'DENY' buttons in the first row of the table.

Welcome to the RightsLink® Institutional Portal. Use the **Billing Profiles** tab to view the special billing profiles we have on file between your institution and RightsLink® client publishers. Use the **Funding Requests** tab to review and act on your queue of funding requests for researchers affiliated with your institution. Use the **Reports** tab to search and download a report of the APC transactions associated with your account. In the future, there will be an **Invoices** tab for you to review and pay your invoices online.

Account Name: IEEE University
Account #: 7001904909

Billing Profiles | **Funding Requests** | **Reports**

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APPROVE When you approve funding for a manuscript, the transaction will be completed, assigned an Order ID, and when a balance is due, included in your next invoice based on the schedule defined in that agreement's profile.

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Results per page: 25 Results 1 - 25 of 34 Previous 1 2 Next

Order Date	Article Title	Primary Author	Funder	Publisher	Profile Name	Total Fees Due	Status	Actions
> 01-Apr-2020	This is not a touch free profile	Garcia Alla, Ruben		Institute of Electrical and Electronics Engineers (IEEE)	IEEE University: Deposit Account - 15% Discount	2,433.55 USD	Pending	APPROVE DENY
> 23-Apr-2019	Test Manuscript Matching Deposit IEEE Univ (15% Disct)	Thom, Krista		Institute of Electrical and Electronics Engineers	IEEE University: Deposit Account - 15% Discount	0.00 USD	Pending	APPROVE DENY

When administrators log in, they will be able to view and respond to outstanding requests.



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The RightsLink® platform is a secure e-commerce platform and thus requires you create an [account](#) to complete this transaction. This is different from any account you may have created when submitting your manuscript, however, we have pre-populated this form with as much information as possible from your manuscript data.

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Last Name

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Address Line 1 ⓘ

Address Line 2 (optional)

Address Line 3 (optional)

Country

Order Review

Select to pay by credit card to complete the transaction. If your institution will be paying directly, you can select to generate an invoice.

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"Test article title" Manuscript Details

Author: FirstName LastName
Manuscript ID:

Charges Estimate **Billing Details** Order Review Confirmation

How do you want to pay your total due?

Payment method

Credit Card (Pay Now)
Your credit card will be charged immediately upon completion of this order. Within 24 hours, you will receive a payment receipt via email (an invoice for the order marked "Paid").

Generate Invoice (Pay Later)
An invoice will be generated and sent to you via email within 2 hours. The address on the invoice will be the billing address you enter below. Detailed payment instructions will be included with the invoice; you can pay invoices later by credit card, check, or wire transfer.

Billing Address Edit

Addressee: Peter Tuohy
Company: IEEE University
Address: 445 Hoes Ln
City: Piscataway
State: NJ Zip/Postal code: 08854
Country: United States

E-mail: s.m.young@ieee.org
Phone: +1 (732)9818062

TOTAL DUE: **1,657.50 USD***
*Tax/VAT will be calculated upon completion of all addresses on this page.

Order Reference or Purchase Order Number (optional)

« Back » Next

Order Confirmation

PAY AUTHOR CHARGES FOR

"Test article title"

[Manuscript Details](#)

Author: **FirstName LastName**

Manuscript ID:

Charges Estimate

Billing Details

Order Review

Confirmation

Order Confirmation

✓ **Thank you for your order!**

Your invoice will be sent to you within 2 hours.

Payment instructions will be located on the last page of your invoice.

Order number: Available in confirmation email

Order date: 03-Mar-2023

Payment status: Not Yet Paid

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TOTAL DUE:

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Additional Resources

IEEE Open

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

IEEE Author Center

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

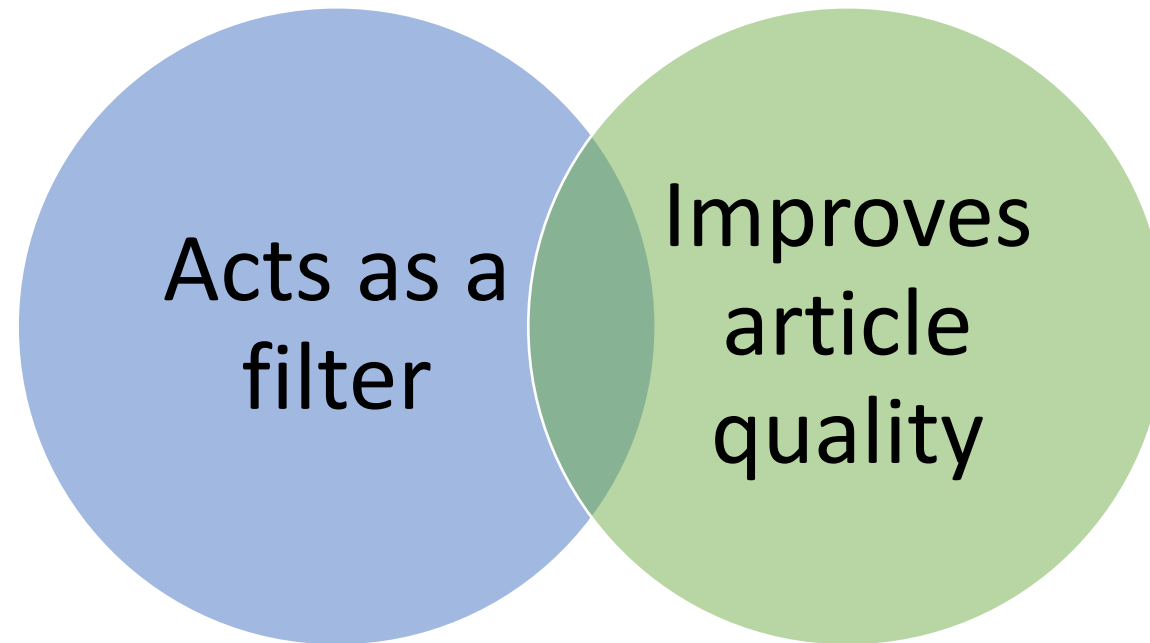
IEEE Author Posting Guidelines

<https://www.ieee.org/publications/rights/author-posting-policy.html>

Peer Review

What is Peer Review?

Peer review is “the critical assessment of manuscripts submitted to [publications] by experts who are not part of the editorial staff.”¹



Peer Review

How does the review process work?

- Editor-in-Chief gets the paper after it goes through content match check (Similarity Check) and “IEEE Prohibited Authors List” check
- If the paper is in scope for the journal, it is assigned to an editor (associate editor)
- Editor assigns the paper to at least two reviewers (sometimes more)
- Reviewers send their comments back to the editor
- Editor makes a recommendation to the EIC as follows
 - Accept
 - Revise & Resubmit
 - Reject
- The EIC makes the final decision and informs the corresponding author

Peer Review

What IEEE editors and reviewers are looking for

- ▶ **Scope:** does the article's topic fit in the publication?
- ▶ **Validity:** are the reported methods and rationale valid and accompanied by appropriate supporting data and references?
- ▶ **Novelty:** is this original material distinct from previous publications?
- ▶ **Importance:** is this a significant finding to an important problem?
- ▶ **Clarity:** are the ideas expressed clearly and concisely?
- ▶ **Interest:** will the publication's readers want to read it?
- ▶ **Compliance:** are all submission requirements met?



Peer Review

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



Peer Review

You've received a decision... now what?

Read the decision email in full

- Editor's comments
- Reviewers' comments and suggestions
- Instructions on how to submit a revision
- The deadline to submit the revision

Determine if you wish to revise

- Are you confident that the revision will be accepted?
- Do your co-authors wish to revise?
- Can you meet the revision deadline?

Get ready for the revision process

- Obtain any additional materials you need
- Manage your file versions
- Begin a "response to reviewers" document

Peer Review

Tips for addressing reviewers' comments

Keep an open mind

Remember it's your job to explain your research fully

Write a clear and well-organized response letter

Implement suggestions when possible (or give a reason why not)

Respond to every comment

Offer respectful and detailed replies

Be alert for ethical issues

Peer Review

How Does One Become a Peer Reviewer?

- Select a few journals in a subject area, visit those journals' online submission websites (accessible via each journal's homepage on IEEE *Xplore*) and create a user account. Provide keywords about your area of expertise in your account so that the editor can match submitted manuscripts with your area of expertise.
- Contact the editor directly to offer services by going to the 'About' tab on a journal homepage on IEEE *Xplore* and looking for the editor's email address.

Paper Structure

Paper Structure

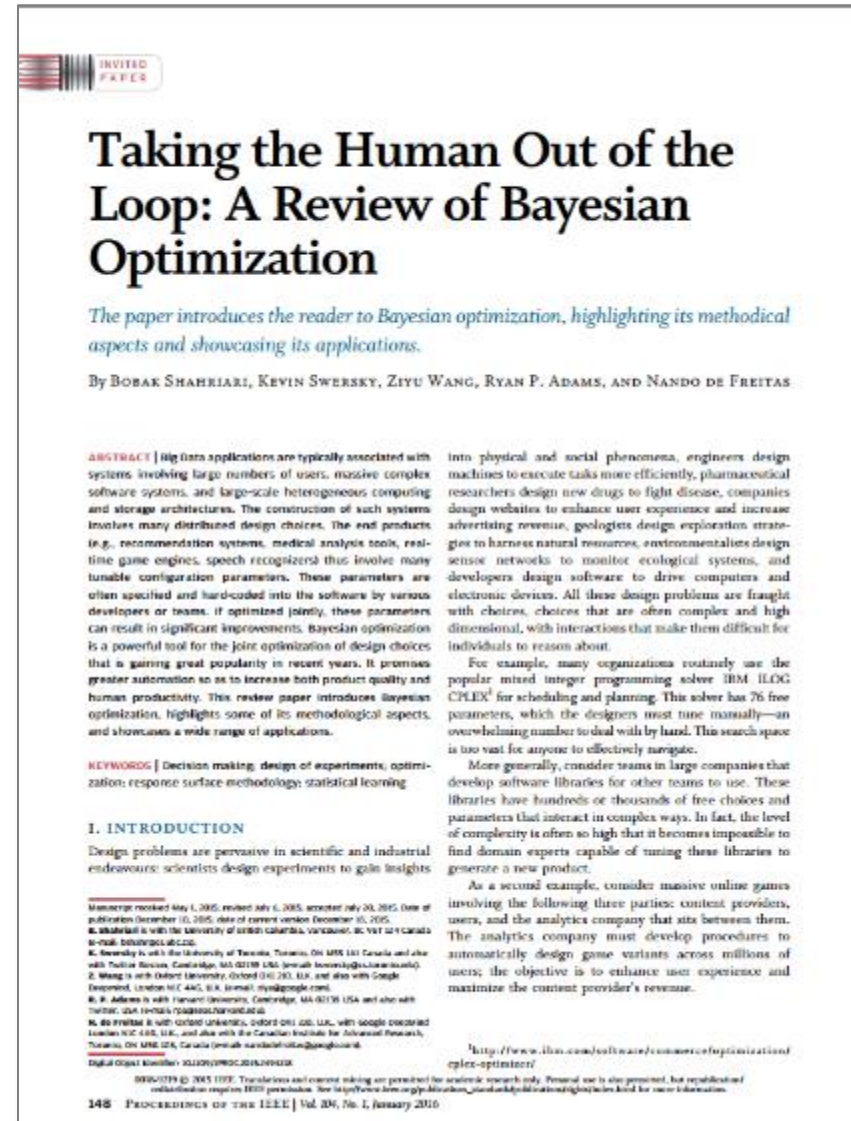
Before you begin writing...

- ▶ Draft an outline
 - Why? What? How?
 - Organize data by importance (not chronological)
- ▶ Choose a journal or conference
 - Read & follow guidelines
 - Use the template
- ▶ Tell a story
 - Have a theme and punchline
 - Avoid data dumping

Paper Structure

Elements of a manuscript

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



INVITED PAPER

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

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

By BOBAK SHAMRIARI, KEVIN SWERSKY, ZIYU WANG, RYAN P. ADAMS, AND NANDO DE FREITAS

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

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

I. INTRODUCTION

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

For example, many organizations routinely use the popular mixed integer programming solver IBM ILOG CPLEX¹ for scheduling and planning. This solver has 76 free parameters, which the designers must tune manually—an overwhelming number to deal with by hand. This search space is too vast for anyone to effectively navigate.

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

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

¹<http://www.ibm.com/software/commerce/optimization/plex-optimizer/>

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148 PROCEEDINGS OF THE IEEE | Vol. 124, No. 1, January 2016

Paper Structure

Title

An effective title should...

- Be specific, concise, and descriptive
- Grab the reader's attention
- 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.
- Describe the content of a paper using the fewest possible words

Tip: Communicate the major finding in the title

Paper Structure

Title – Best Practices

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

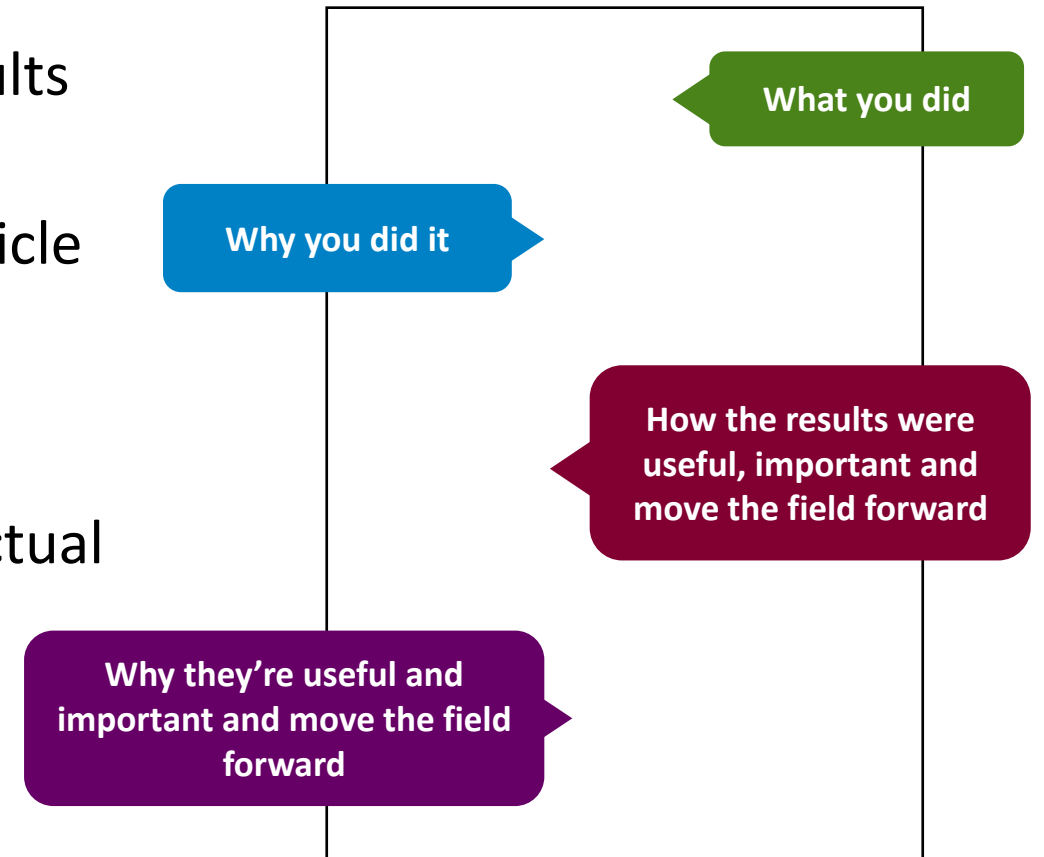
VS

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

Paper Structure

Abstract

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



Tip:

Make the reader want to learn more

Paper Structure

Abstract Dos and Don'ts



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

VS



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

First person, present tense

No actual results; only describes the organization of the paper

Paper Structure

Think About Your Future Reader

- ▶ Sprinkle keywords in title and abstract
- ▶ Use terms you would use to conduct a search on your topic
- ▶ Include both broad and narrow terminology

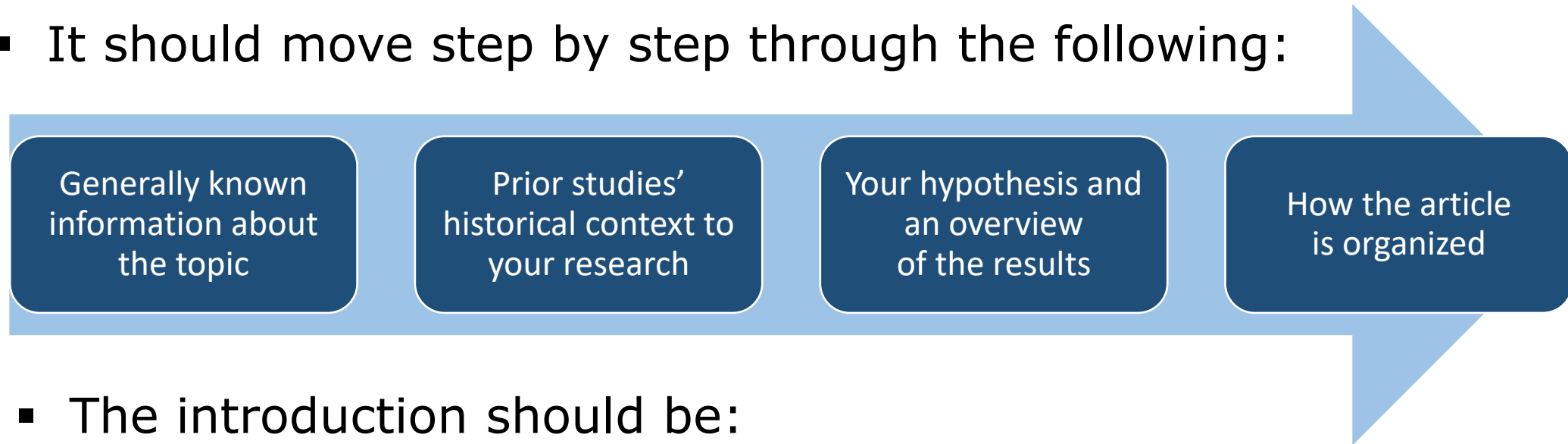
Deep Learning for Health Informatics

With a massive influx of multimodality data, the role of data analytics in health informatics has grown rapidly in the last decade. This has also prompted increasing interests in the generation of analytical, data driven models based on machine learning in health informatics. Deep learning, a technique with its foundation in artificial neural networks, is emerging in recent years as a powerful tool for machine learning, promising to reshape the future of artificial intelligence. Rapid improvements in computational power, fast data storage, and parallelization have also contributed to the rapid uptake of the technology in addition to its predictive power and ability to generate automatically optimized high-level features and semantic interpretation from the input data. This article presents a comprehensive up-to-date review of research employing deep learning in health informatics, providing a critical analysis of the relative merit, and potential pitfalls of the technique as well as its future outlook. The paper mainly focuses on key applications of deep learning in the fields of translational bioinformatics, medical imaging, pervasive sensing, medical informatics, and public health.

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

Introduction

- ▶ **Goal:** what question you're trying to answer
- ▶ **Motivation:** why you're asking the question
 - A paragraph stating the problem to be solved and its importance
- ▶ **Novelty:** Literature review
 - Several paragraphs describing previous state of the art
 - Last paragraph states what is new in this paper, how it is different from work of others as well as your own prior work and finally the organization of the paper



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 TIGR₁₉₉₁ 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 RMSEs around 1.5 K, with almost equal values of bias and standard deviation, around 1 K in both cases (with a negative bias, that is, 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 5 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 transfer equation, which can be considered as a “ground-truth” algorithm, is assumed to be accurate enough. The SC algorithm is a continuation of the previous SC algorithm developed for Landsat-4 and Landsat-5 TM sensors, 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 partly solved by computing the atmospheric functions directly from τ , L_w , and L_s 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/ETM 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, and vice versa, as demonstrated in the simulation study presented in Sobrino and Jimenez-Munoz [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

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



Tip:

Answer the question
“so what?”

Making Your Work More Approachable and Visible

- Communicate clearly and concisely
- Organize your materials logically
- Consider an English language Editing Service
 - Fee-based assistance for editing, translation or formatting services
 - Does not guarantee acceptance in an IEEE publication
- No need for dry writing
 - Active voice
 - Simple words
 - Define all abbreviations
- Prepare an “elevator pitch”
 - Key question answered and why it’s important
 - Quick note on methodology
 - Pull from your abstract and conclusion

*After the article is published, leverage social media to spread the word

Submission Guidelines

Submission Guidelines

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.
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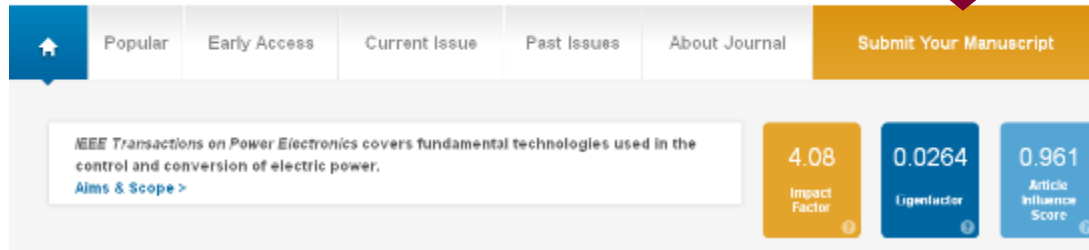
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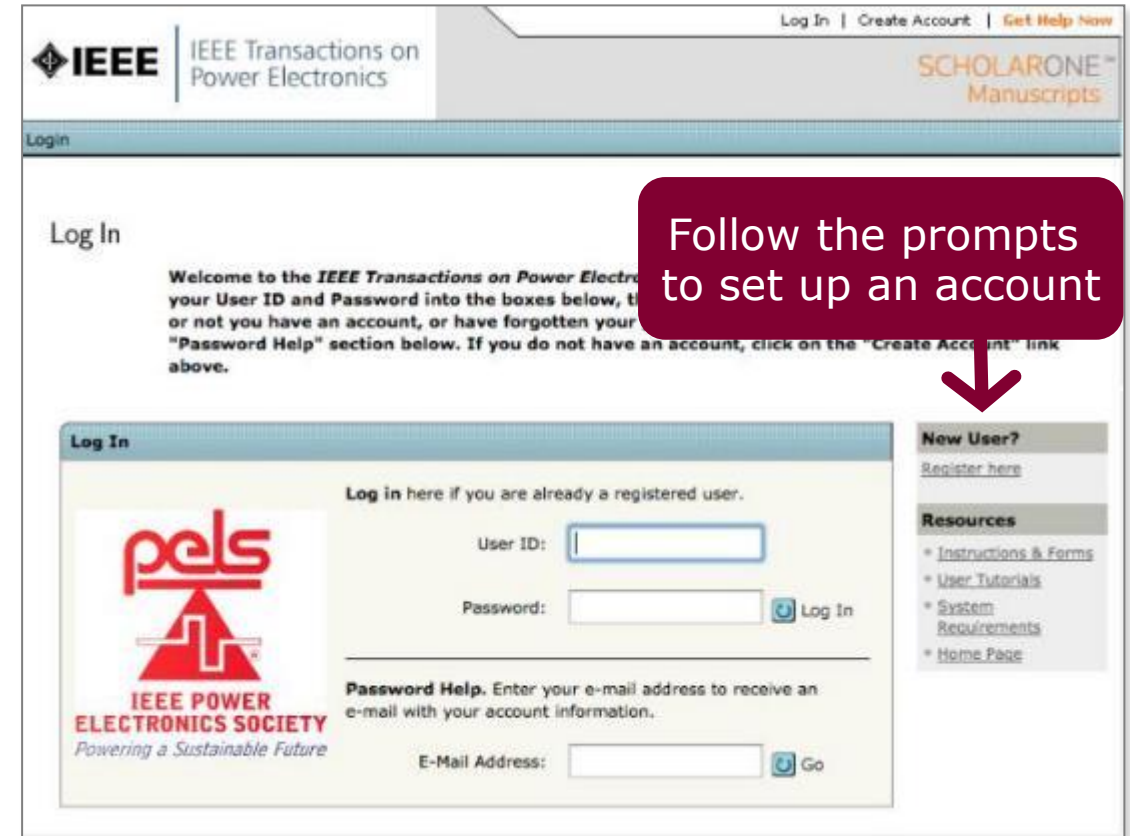
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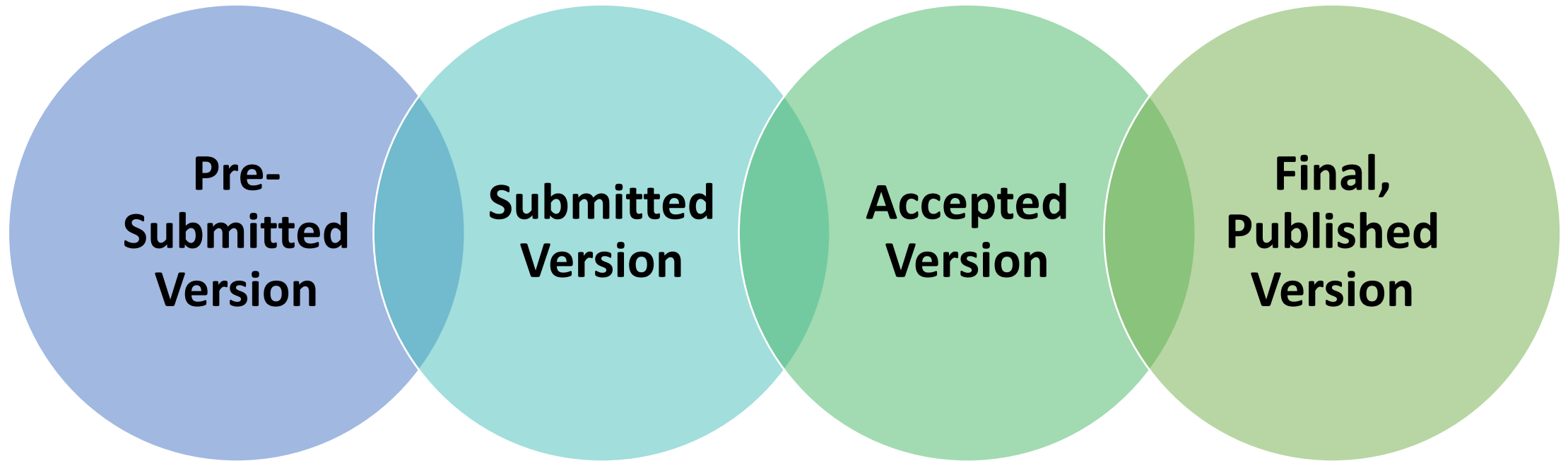
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Gary S. May (Fellow, IEEE) received the B.S. degree in electrical engineering from the Georgia Institute of Technology (Georgia Tech), Atlanta, GA, USA, in 1985, and the M.S. and

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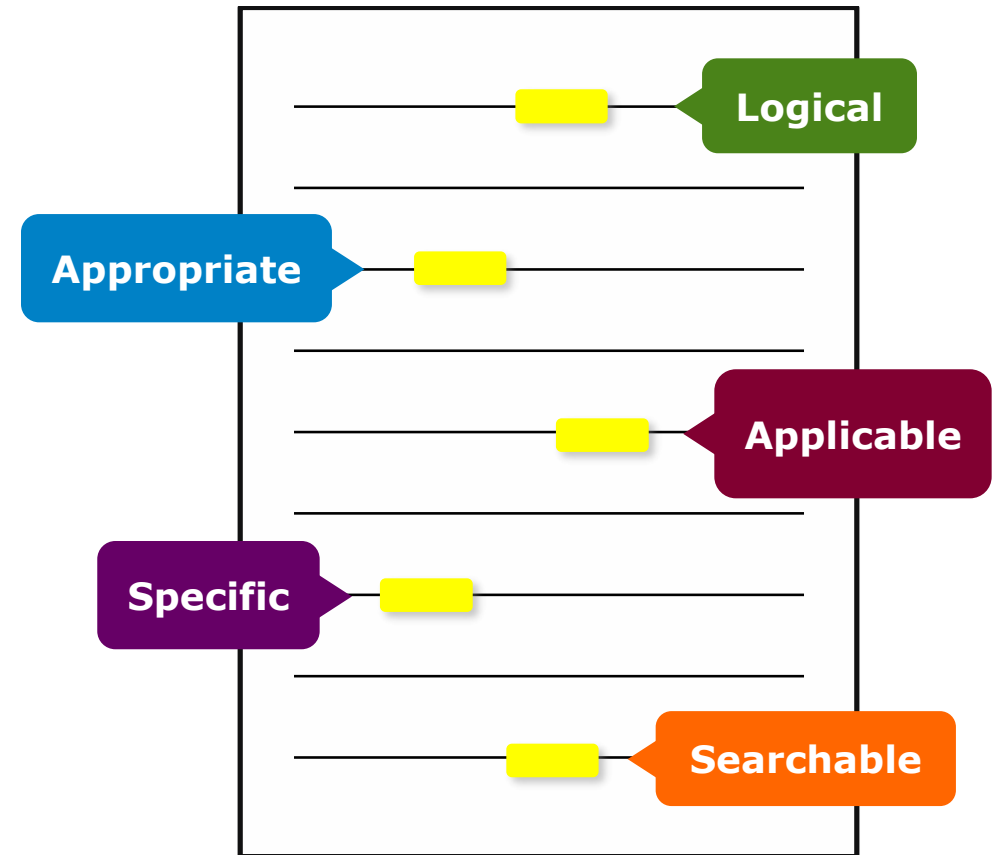
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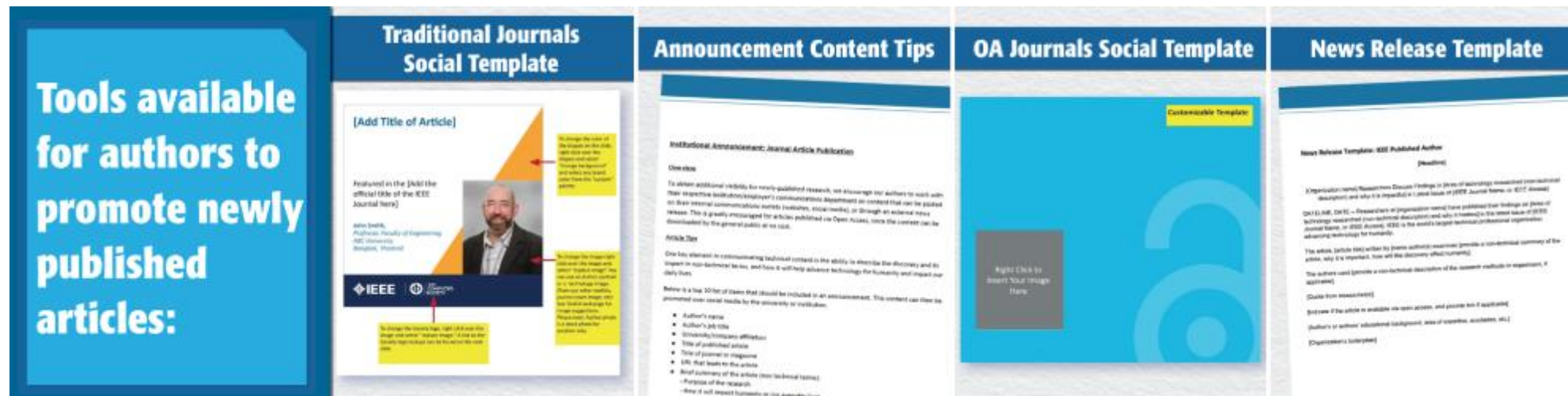
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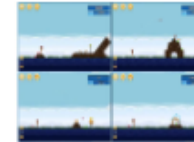
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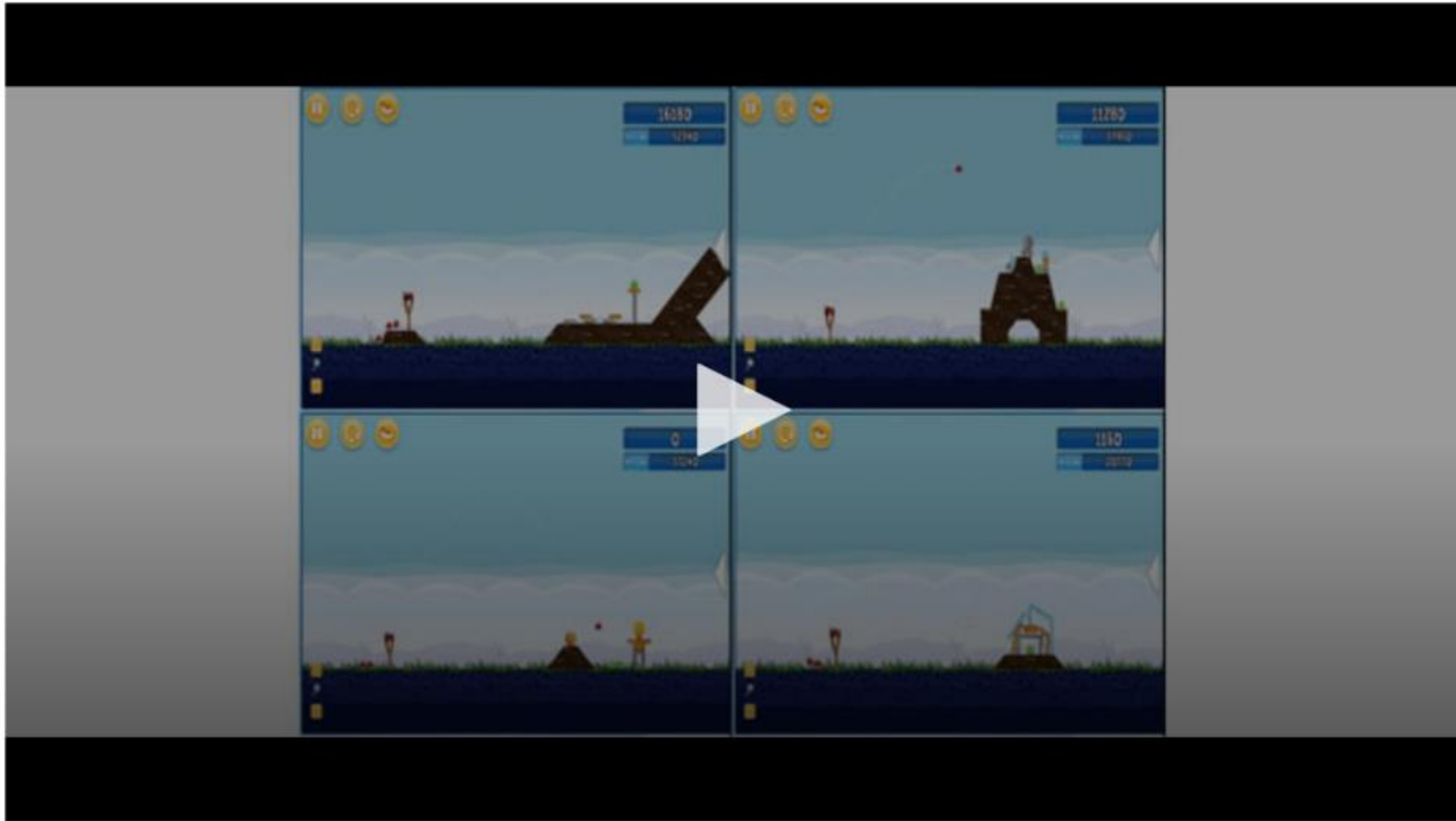
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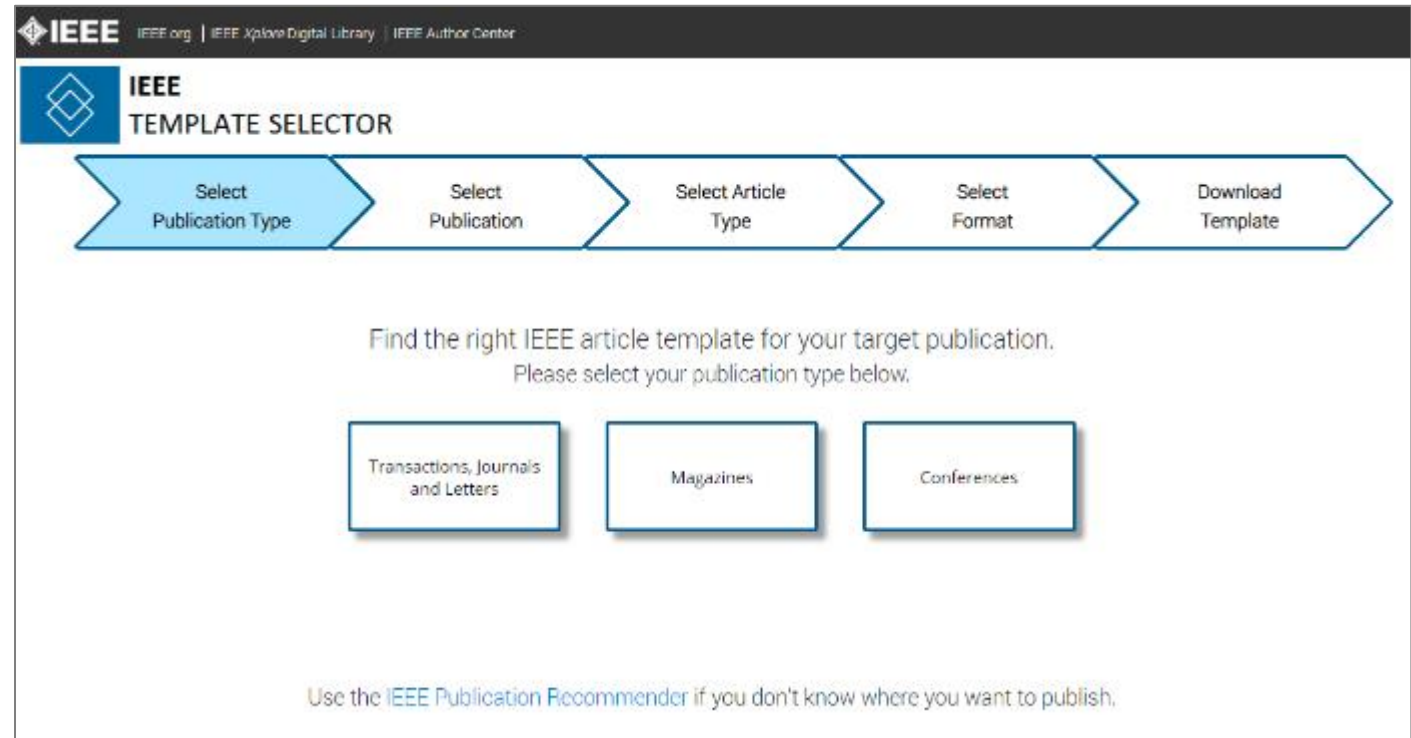
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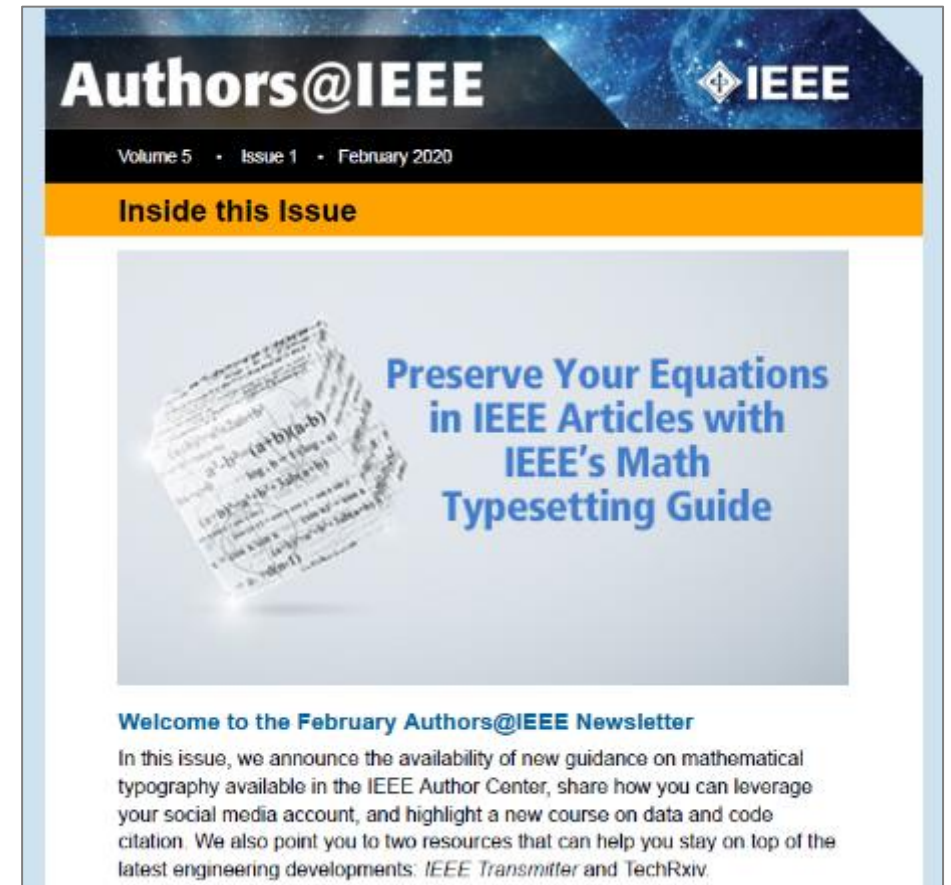
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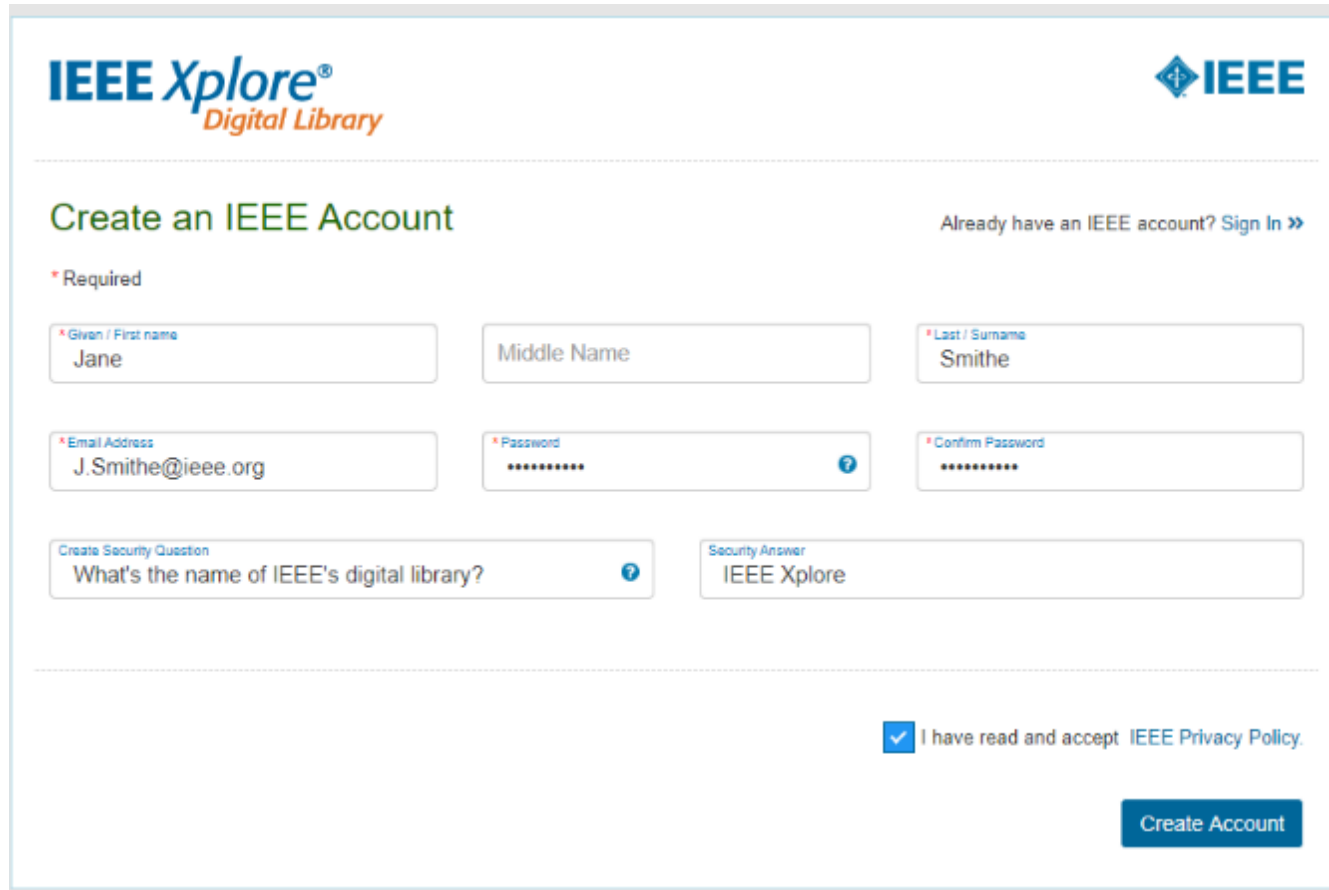
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Showing 1-25 of 1,077 for **radio frequency microsystems** ✕

Conferences (861) Journals (197) Magazines (13) Books (1)

Early Access Articles (3)

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All-optical Frequency Up-conversion Technique using Four-wave Mixing in Semiconductor Optical Amplifiers for Radio-over-fiber Applications

Hyoungh-Jun Kim; Ho-Jin Song; Jong-In Song
2007 IEEE/MTT-S International Microwave Symposium
Year: 2007 | Conference Paper | Publisher: IEEE
Cited by: Papers (4)

▶ Abstract [\(html\)](#) (1561 Kb)

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The image shows a screenshot of the IEEE Xplore search interface. On the left, there is a vertical sidebar with several facets, each with a dropdown arrow: Year, Author, Affiliation, Publication Title, Publisher, Supplemental Items, Conference Location, and Publication Topics. The 'Publication Topics' facet is currently expanded, showing a list of topics with checkboxes and counts. The main search results area is partially visible in the background, showing a list of search results with titles like 'Inversion Technique using Four-Wave-Mixing in Fiber-Over-Fiber Applications' and 'Tristate Vibrating RF Microsystem'. A search history panel is visible on the right side of the interface.

Year ▾

Author ▾

Affiliation ▾

Publication Title ▾

Publisher ▾

Supplemental Items ▾

Conference Location ▾

Publication Topics ▾

Publication Topics ▴

Enter Topics

- CMOS integrated circuits (160)
- micromechanical devices (114)
- wireless sensor networks (70)
- microswitches (69)
- low-power electronics (63)
- radiofrequency integrated circuits (63)
- radio receivers (61)
- integrated circuit design (59)
- silicon (56)
- radiofrequency identification (52)
- microsensors (51)
- III-V semiconductors (48)
- Q-factor (47)

104

Tips for Using IEEE Xplore for Your Literature Review

Use Sort Options to Find Influential / Popular Papers

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Year ▼

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All-optical Frequency Up-conversion Technique using Four-wave Mixing Optical Amplifiers for Radio-over-fiber Applications
Hyoung-Jun Kim; Ho-Jin Song; Jong-In Song
2007 IEEE/MTT-S International Microwave Symposium
Year: 2007 | Conference Paper | Publisher: IEEE
Cited by: Papers (4)

▶ Abstract [\(\(html\)\)](#)  (1561 Kb) 

Contour-Mode Aluminum Nitride Vibrating RF Microsystems 
Gianluca Piazza
2007 IEEE International Frequency Control Symposium Joint with the 21st European Frequency and Time Forum
Year: 2007 | Conference Paper | Publisher: IEEE
Cited by: Papers (2)

▶ Abstract [\(\(html\)\)](#)  (1147 Kb) 

Sort By: **Relevance** ▼

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

Tips for Using IEEE Xplore for Your Literature Review

Download Citations from the Search Results Page

The screenshot shows the IEEE Xplore search results page. At the top, there are navigation options: "Download PDFs", "Per Page: 25", and "Export". Below this, there are filters for "Journals (1,302,881)", "Magazines", "Standards (10,929)", and "Courses". A "Select All on Page" checkbox is visible. Three search results are listed, each with a checked checkbox and a red box highlighting the title and author information:

- Down Converter Characterization in a Synthetic Instrument**
Michael Granieri ; Anthony Estrada
2006 IEEE Autotestcon
Year: 2006 | Conference Paper | Publisher: IEEE
Cited by: Papers (5)
▶ Abstract [\(html\)](#) (6360 Kb)
- Some switching-circuit applications of transistors and saturable reactors**
V.B. Hulme
Proceedings of the IEE - Part B: Electronic and Communication Engineering
Year: 1959 | Volume: 106, Issue: 18 | Journal Article | Publisher: IET
Cited by: Papers (2)
▶ Abstract (976 Kb)
- Realization of single-moded broadband air-guiding photonic bandgap fibers**
T. Murao ; K. Saitoh ; M. Koshiba
IEEE Photonics Technology Letters
Year: 2006 | Volume: 18, Issue: 15 | Journal Article | Publisher: IEEE
Cited by: Papers (12)
▶ Abstract [\(html\)](#) (272 Kb)

Overlaid on the right side of the search results is a "Citations" dialog box. The "Citations" tab is selected and highlighted with a red box. The dialog shows "You have selected 3 citations for download." and offers the following options:

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Tips for Using IEEE *Xplore* for Your Literature Review

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

Publisher: IEEE

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PDF

Ryan Hamerly All Authors

550
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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

Figures

Keywords

Metrics

Abstract:

Think of the many tasks to which computers are being applied that in the no identify objects in images, transcribe speech, translate between languages, cars.

Published in: IEEE Spectrum (Volume: 58 , Issue: 7, July 2021)

Page(s): 30 - 47

Date of Publication: 05 July 2021 ?

ISSN Information:

Think of the many tasks to which computers are being applied that in the Computers routinely identify objects in images, transcribe speech, translate conditions, play complex games, and drive cars.

The technique that has empowered these stunning developments is called mathematical models known as artificial neural networks. Deep learning

My Research Projects

Deep Learning and Photonics

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Tips for Using IEEE *Xplore* for Your Literature Review

Go Beyond the Full Text PDF

Low-Loss and Wideband Acoustic Delay Lines

Publisher: IEEE

Cite This

PDF

Tomás Manzanque ; Ruochen Lu ; Yansong Yang ; Songbin Gong All Authors

17 Paper Citations
637 Full Text Views

Abstract

Abstract:

This paper demonstrates the use of LiNbO₃ for the first time. Devices for producing devices with films are also excellent for acoustic reflections and large electrodes on a LiNbO₃ thin. The directionality for two devices with variations in the key device fabricated devices has shown longer delays and different their possible mitigation are

Published in: IEEE Transactions on

Page(s): 1379 - 1391

Date of Publication: 19 March 2015

ISSN Information:

Publisher: IEEE

Funding Agency:

More Like This

Passive Beamforming Using Surface Acoustic Wave Filters
IEEE Antennas and Wireless Propagation Letters
Published: 2015

Design of low loss surface acoustic wave filter with three interdigital transducers

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SECTION I.
Introduction



Once You Know the Key Authors, dive into their profile



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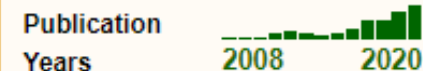
Publication Topics

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Biography

Songbin Gong (Senior Member, IEEE) received the Ph.D. degree in electrical engineering from the University of Virginia, Charlottesville, VA, USA, in 2010. He is currently an Associate Professor and the Intel Alumni Fellow with the Department of Electrical and Computer Engineering and the Micro and Nanotechnology Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL, USA. His research primarily focuses on design and implementation of radio frequency microsystems, components, and subsystems for reconfigurable RF front ends. In addition, his research explores hybrid microsystems based on the integration of MEMS devices with photonics or circuits for signal processing and sensing. Dr. Gong was a recipient of the 2014 Defense Advanc... [Show More](#)

Publications **116**



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Viewing: **Low-Loss and Wideband Acoustic Delay Lines**

References in this Article	This Article	Citations to this Article
1 Event driven persistent sensing: Overcoming the energy and lifetime limitations in unattended wireless se...		1 Aluminum Nitride Lamb Wave Delay Lines With Sub-6 dB Insertion Loss
2 Doppler radar		2 Gigahertz Low-Loss and Wideband S0 Mode Lithium Niobate Acoustic Delay Lines
3 Use of a surface-acoustic-wave delay line to provide pseudocoherence in a clutter-reference pulse doppler...		3 5 GHz Acoustic Delay Lines using Antisymmetric Mode in Lithium Niobate Thin Film
4 A SAW frequency discriminator		4 GHz Broadband SH0 Mode Lithium Niobate Acoustic Delay Lines
5 Acoustic surface wave dispersive delay lines as high resolution frequency discriminator		5 5-GHz Antisymmetric Mode Acoustic Delay Lines in Lithium Niobate Thin Film

Browse Keywords to Identify Search Terms

Keywords ^

IEEE Keywords

Transducers, Acoustics, Electrodes, Delay lines, Delays, Bandwidth, Radio frequency

INSPEC: Controlled Indexing

acoustic wave propagation, interdigital transducers, surface acoustic wave filters, ultrasonic transducers

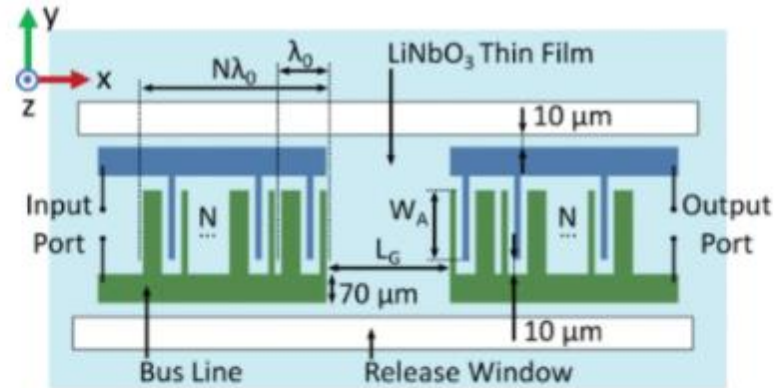
INSPEC: Non-Controlled Indexing

low-loss acoustic delay lines, shear-horizontal waves, thin-film LiNbO₃, shear-horizontal mode, bandwidths, unidirectional transducers, transducer unidirectionality, delay line insertion loss, group delay, fractional bandwidth, transducer cells, wideband acoustic delay lines, electromechanical coupling, acoustic reflections

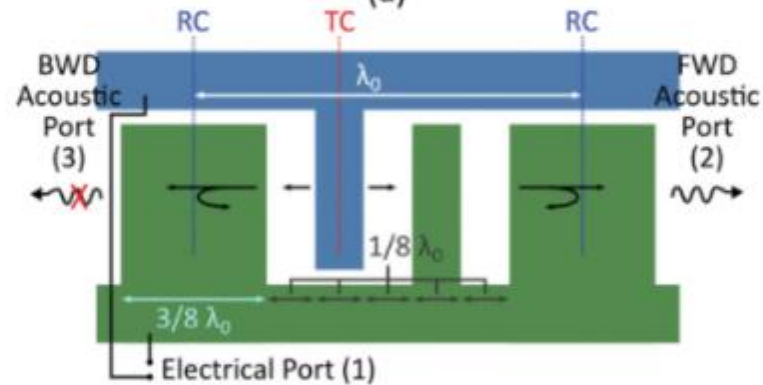
Author Keywords

Acoustic devices, delay lines, lithium niobate (LiNbO₃), microelectromechanical systems, piezoelectric transducers, transversal filters

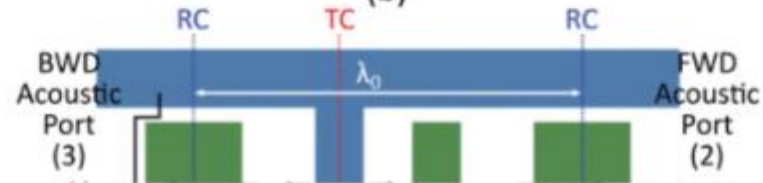
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(a)



(b)



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SECTION III.

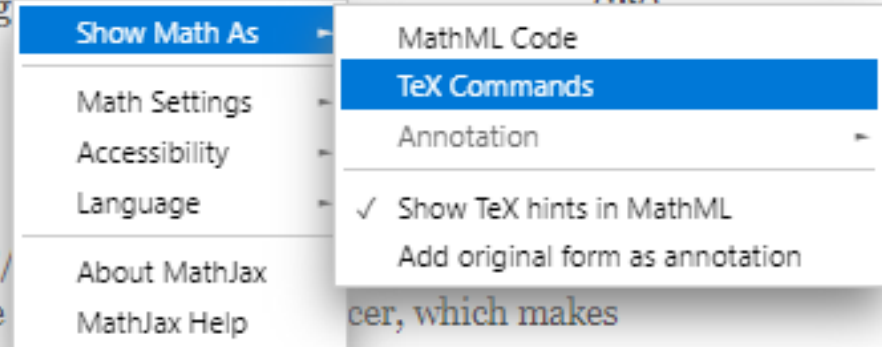
Modeling and Simulation

A Comsol-based FEM model of a unidirectional transducer was built to more precisely predict the directionality as a function of the number of unit cells. The directionality per unit cell was simulated for an EWC transducer formed by 100 nm of Au for different values of N . The results are shown in Fig. 7 (red curve). Theoretically, this value is predicted from (23) as

$$D/N(\text{dB}) = 10 \log \left(\frac{1 + |\Gamma|}{1 - |\Gamma|} \right).$$

$$D/N(\text{dB}) = 10 \log \left(\frac{1 + |\Gamma|}{1 - |\Gamma|} \right) \quad (28)$$

(28), the simulated D/N is explained by the fringe field effect. The edges present a smaller directionality than those cells located in the center, which makes



```
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about:blank  
\begin{equation*} D/N\mathrm {(dB)= 10}\log \left ( {\frac {1+| \Gamma |}{1-| \Gamma |}} \right) .\tag{28}\end{equation*}
```

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Q&A Session



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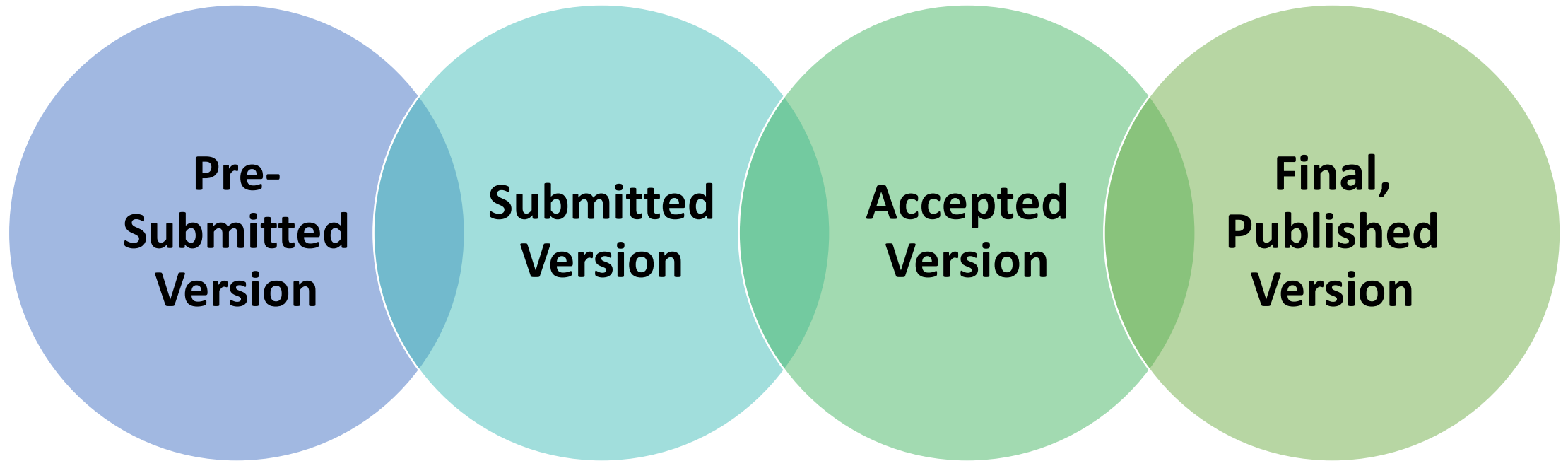


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Appendix: IEEE Article Posting Policy

IEEE Article Posting Policy



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