Why Publish?

- Share knowledge
- Advancement and prestige
- Improve quality
- Spur new ideas
- Archive
Are You Ready to Publish?

1. New and useful?
2. Hot topic?
3. Contribution?
4. Supporting data?
5. Ruled out other interpretations?
6. Discussed with co-authors?
Choosing IEEE

- Global Prestige
- Speed of Publication
- Multiple Publishing Outlets
- IEEE Author Tools

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Step 1: Select a Target Publication
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 to ensure your article is a good fit
- Check out the IEEE Publication Recommender
IEEE Publication Recommender

Periodical: Signal Processing, IEEE Transactions on

Choose:
- Impact Factor: 5.028
- Eigenfactor: 0.052
- Article Influence Score: 1.711

Aims & Scope:
The IEEE Transactions on Signal Processing covers novel theory, algorithms, performance analyses and applications of techniques for the processing, understanding, learning, retrieval, mining, and extraction of information from signals. The term "signal" includes, among others, audio, video, speech, image, communication, geophysical, sonar, radar, medical and musical signals. Examples of topics of interest include, but are not limited to, information processing and the theory and application of filtering, coding, transmitting, estimating, detecting, analyzing, recognizing, synthesizing, recording, and reproducing signals.

Open Access Availability: Open Access Available
Submission to Publication in Xplore: 34.2 Weeks
Issues per year: 1

Published By: IEEE Signal Processing Society
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What Publications Look For

- Scope
- Validity
- Novelty
- Importance
- Clarity
- Interest
- Compliance
Publishing Outlets: Conference or Journal?

- **Conferences** are for preliminary findings of ongoing research
- **Journals** are for fully-developed findings of completed research
- **Both** are peer-reviewed and checked for plagiarism before publication
- **Open Access** is only available in journals

**Note:** Authors are expected to present their findings in person at a conference in order to be published in the conference proceedings.
Step 2: Writing the Article
Typical Article Structure

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

Title

▸ Specific, concise and descriptive
▸ Avoid terms like “new” or “novel”

Abstract

▸ Concise summary of research conducted, results obtained, and conclusions reached
▸ 250 words or less
▸ Self-contained, without references, equations, or abbreviations

Tip: Write the title and abstract last and be prepared to spend as much as 1/3 of your writing and editing time on these areas
Introduction

- Novelty: Literature review
- Goal: what question you’re trying to answer
- Motivation: why you’re asking the question
Approach and Results

What + How → Results
Discussion and Conclusion

Discussion

▸ What your results mean
▸ Why it makes a difference

Conclusion

▸ Broader implications
▸ Areas for further study

Tip: Don’t inflate your findings; avoid exaggerated praise and unqualified adjectives.
References

- Ensure proper attribution
- Support and validate your hypothesis
- Only cite references that directly support your work

Acknowledgments Examples

- Research funder
- Assistance such as data collection, graphics creation, or language polishing
- Recognition of reviewers

ACKNOWLEDGMENT

The authors would like to thank K. McGill from VA Palo Alto Health Care System and Monica Rojas from Universitat Politècnica de Catalunya for helping to perform the experimental data collection and reviewing a draft of this paper.
Author Biography and Photo

Klaus McDonald-Maier

Also published under: Klaus D. McDonald-Maier, Klaus McDonald-Maier, K. D. McDonald-Maier, K. McDonald-Maier, Klaus Dieter McDonald-Maier, Klaus D. McDonald-Maier, Klaus Dieter McDonald-Maier

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Publication Topics
feature extraction, field programmable gate arrays, image classification, system-on-chip, multiprocessing systems, Internet of Things, authorisation, convolutional neural nets, embedded systems, learning (artificial

Biography
Klaus McDonald-Maier (Senior Member, IEEE) is currently the Head of the Embedded and Intelligent Systems Laboratory, University of Essex, Colchester, U.K. He is also the Chief Scientist with UltraSoC Technologies Ltd., the CEO of Metrac Ltd., and a Visiting Professor with the University of Kent. His current research interests include embedded systems and system-on-chip design, security, development support and technology, parallel and energy-efficient architectures, computer vision, data analytics, and the application of soft computing and image processing techniques for real-world problems. He is a member of VDE and a Fellow of the IET. (Based on document published on 28 January 2020)
Write Clearly and Logically

- Goal: Communicate clearly and concisely
- Organize your materials logically
- Keep the language as simple as possible and try to avoid jargon
- Consider an English language editing service
  - Fee-based assistance for editing, translation or formatting services
  - Does not guarantee acceptance in an IEEE publication
  - IEEE authors are eligible for a 10% discount at American Journal Experts and a 30% discount at Enago
Step 3: 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.”

Acts as a filter

Improves article quality

1International Committee of Medical Journal Editors
How It Works

Submission → Pre-screen → To reviewers

Editor Makes Decision

Accept → Revision → Reject

Rejection: topic

Rejection: format
Decisions, Decisions

Accept

• Tell your co-authors
• Follow production steps
• Spread the word: add it to your CV, post a link to your website, highlight it in social media
• Do some more research and start again!

Revision

• Prepare point-by-point response to comments from reviewers and Editor; if you do not implement a suggestion, say why not
• Follow resubmission steps
• Keep copies of all original and revised files

Reject

• Read the decision letter carefully; it may suggest transfer to another publication
• Take advantage of comments from Editor and reviewers to improve article
• Pick a new target and try again
Things to Think About: 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 agreements than traditional publication
Why Should I Care About Open Access?

Share your work more broadly

Comply with requirements

Enable others to build on your work
### Open Access at IEEE: Publishing Venues

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<tr>
<th>Venue</th>
<th>Description</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Hybrid</td>
<td>Traditional journals</td>
<td>USD$2,045</td>
</tr>
<tr>
<td>Topical</td>
<td>Fully OA, subject-specific</td>
<td>USD$1,220-1,820</td>
</tr>
<tr>
<td>IEEE Access</td>
<td>Fully OA, multidisciplinary</td>
<td>USD$1,750</td>
</tr>
</tbody>
</table>

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Predatory Journals

- Minimal or no peer review
- Poor production quality
- Difficult to find, with no guarantee of accessibility

Be wary of:
- Unprofessional website
- Flattering, urgent submission invitations
- Unusual scope
- Absence from popular indices
Things to Think About: Ethical Issues
Authorship (and Acknowledgments)

IEEE considers individuals who meet all of the following criteria to be authors:

1. Made a significant intellectual contribution to the theoretical development, system or experimental design, prototype development, and/or the analysis and interpretation of data associated with the work contained in the article; and
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3. Approved the final version of the article as accepted for publication, including references.

Contributors who do not meet all of the above criteria can be included in the Acknowledgment section of the article.
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Authors must agree on and designate a corresponding author before article submission. The corresponding author is responsible for:

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2. Obtaining from all co-authors their consent to be listed on the article and their approval of the final version accepted for publication; and
3. Keeping all co-authors apprised of the article's status including furnishing all co-authors with copies of the reviewers' comments and a copy of the published version, as appropriate.

Note: All authors share responsibility for the content of the article.
Plagiarism

Definition: Using someone else’s prior ideas, processes, results, or words without explicitly acknowledging the original source.

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- Applies to all components, including text, figures, tables
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Fabrication or Falsification

Definition: Inaccurate reporting of the research conducted or the results obtained.

Examples include:

- False, incomplete, or selective reporting of results
- Data tampering or misrepresentation
- Figure manipulation
- Citation manipulation
Duplicate Submission

- Submit to only one publication at a time; article should not be under review elsewhere
- Avoid submitting an article which is the same or very similar to a previous publication

However...

- IEEE recognizes that research often evolves
- Cite the earlier version and indicate what’s different
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