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#### Publishing date of a manuscript – relevant only for the retrospective conversion in the CARE CRUI Agreement

#### AIR<sub>5</sub>: Five Pillars of Artificial Intelligence Research

Publisher: IEEE

Cite This



Yew-Soon Ong (1): Abhishek Gupta (1) All Authors

Paper Citations 3681 Full Text Views













#### Abstract

#### Document Sections

- Introduction
- II. R1: Rationalizability of Al Systems
- III. R2: Resilience of Al Systems
- IV. R3: Reproducibility of Al Systems
- V. R4: Realism of Al Systems

#### Show Full Outline ▼

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#### Abstract:

In this paper, we provide an overview of what we consider to be some of the most pressing research questions currently facing the fields of artificial and computational intelligence (Al and CI). While Al spans a range of methods that enable machines to learn from data and operate autonomously, CI serves as a means to this end by finding its niche in algorithms that are inspired by complex natural phenomena (including the working of the brain). In this paper, we demarcate the key issues surrounding these fields using five unique Rs, namely, rationalizability, resilience, reproducibility, realism, and responsibility. Notably, just as air serves as the basic element of biological life, the term AIR5-cumulatively referring to the five aforementioned Rs-is introduced herein to mark some of the basic elements of artificial life, for sustainable AI and CI. A brief summary of each of the Rs is presented, highlighting their relevance as pillars of future research in this arena.

Published in: IEEE Transactions on Emerging Topics in Computational Intelligence (Volume: 3, Issue: 5, October 2019)

Page(s): 411 - 415

Date of Publication: 31 July 2019 ?





Electronic ISSN: 2471-285X

▶ Funding Agency:

INSPEC Accession Number: 19010934

DOI: 10.1109/TETCI.2019.2928344

Publisher: IFFF

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CARE CRUI Consortium

Agreement

Institution A
Profile

Institution B
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#### Step 1

Paper Submission & Peer Review

## **SCHOLARONE™**

#### Step 2

**IEEE Electronic Copyright Form** 



#### Step 3



- Touch-Free Workflow: automatic APC funding requests sent to admin if author selectes OA
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- 4. If denied, author can pay by invoice

Step 4



Manuscripts are often published even before approval of the funding request

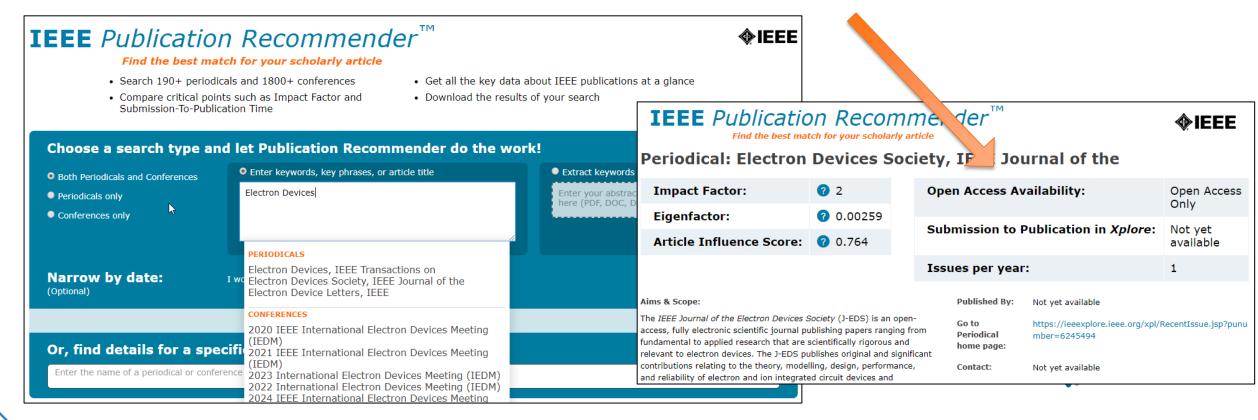
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Submission, acceptance, and seeking funding



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#### IEEE Open Journal of Antennas and Propagation 🗗

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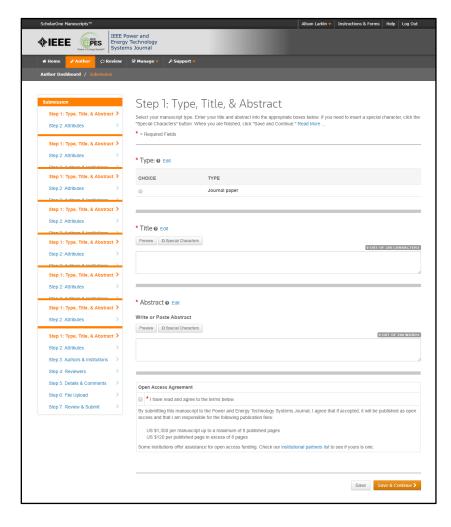


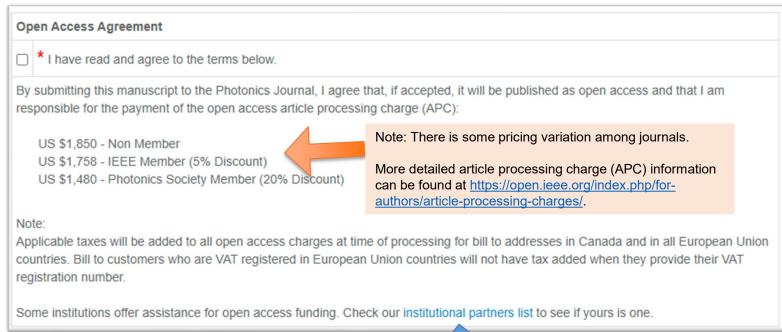
## **Submission process**

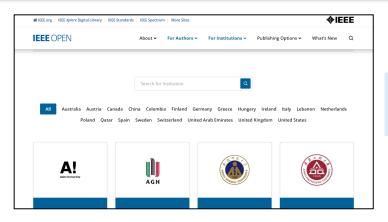
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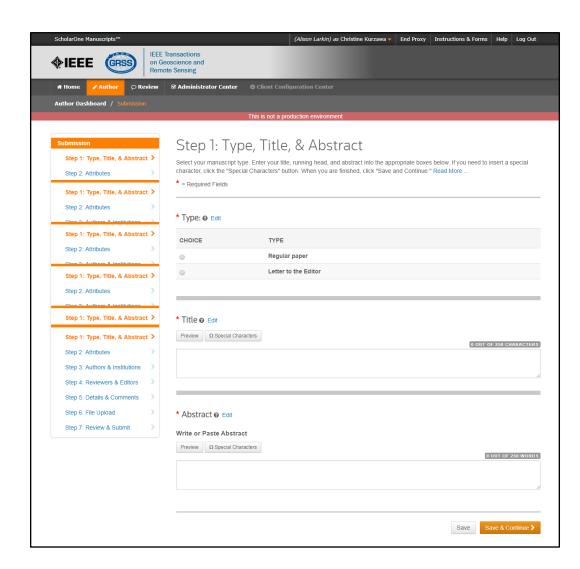


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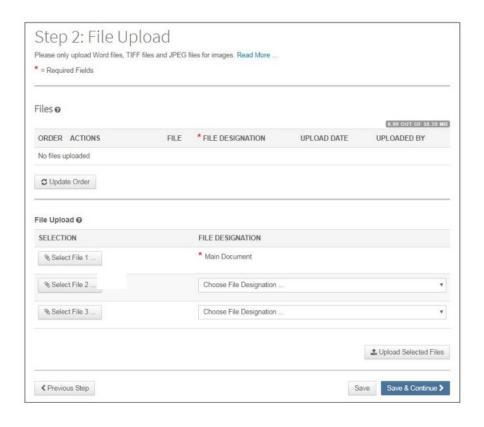
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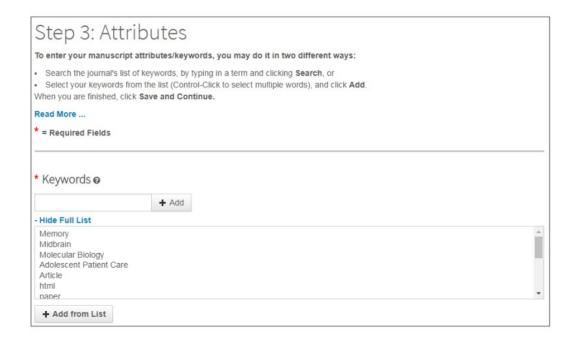


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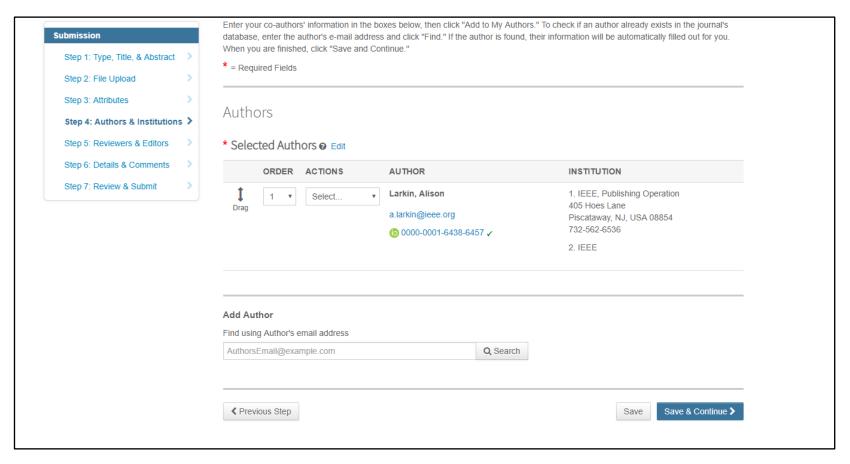




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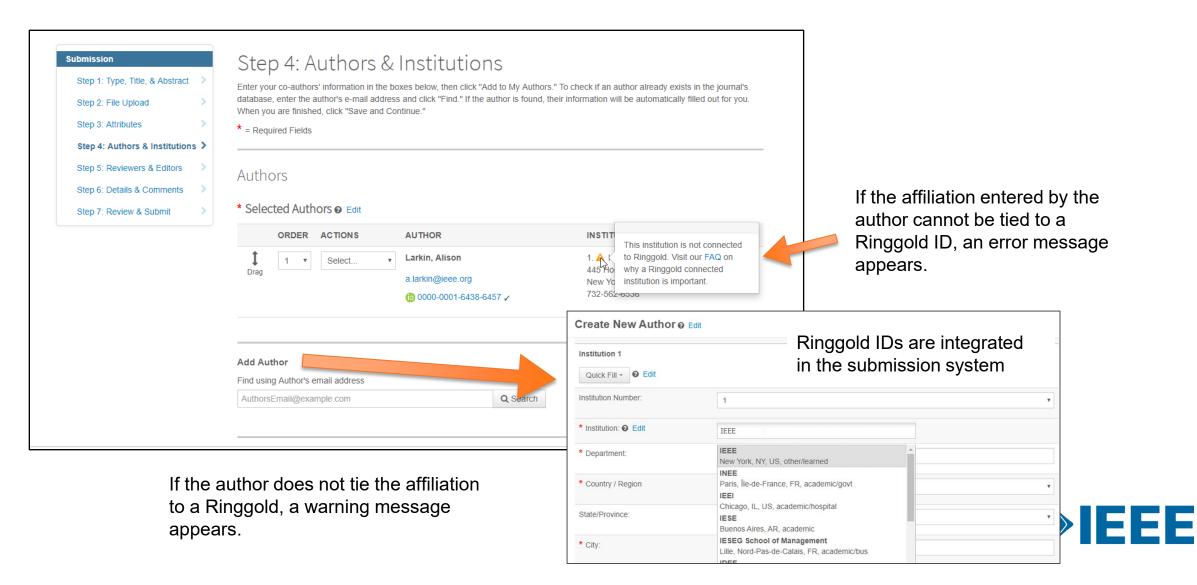
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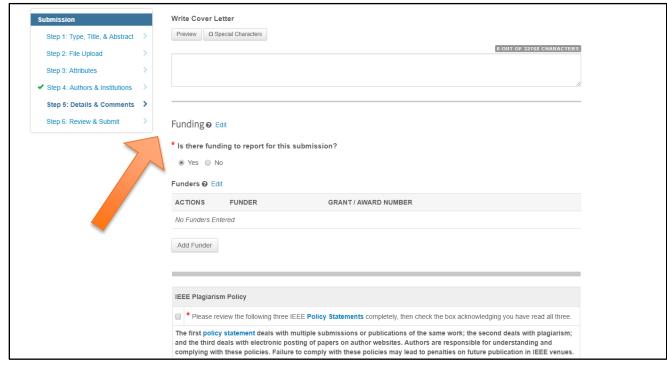


# **Submission – Step 4**



# **Submission – Step 5 Details & Comments**

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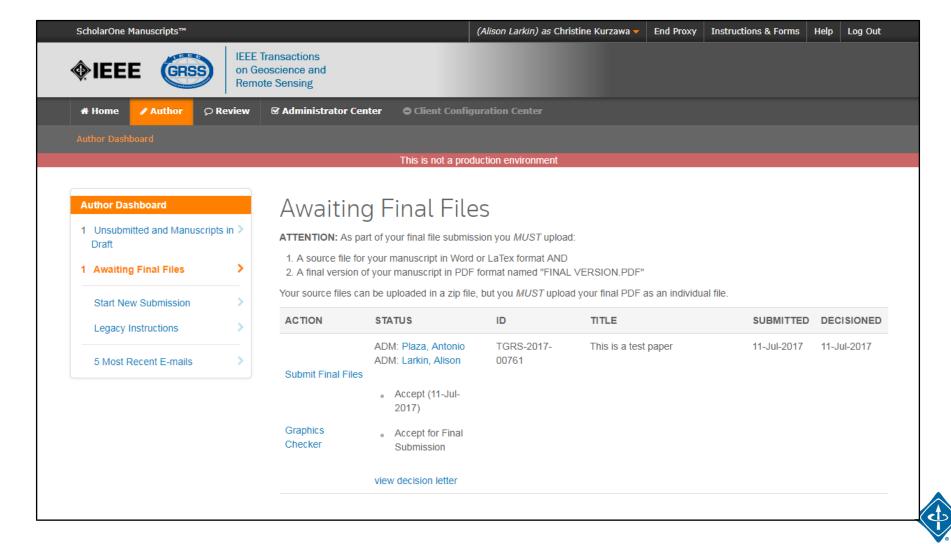


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## Post acceptance – final files upload



#### Post acceptance – hybrid review

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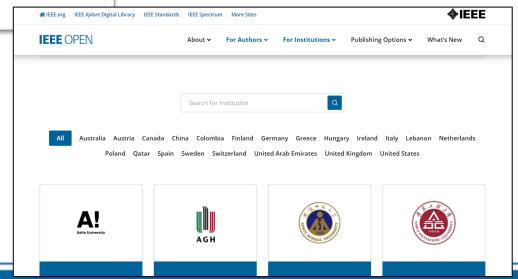
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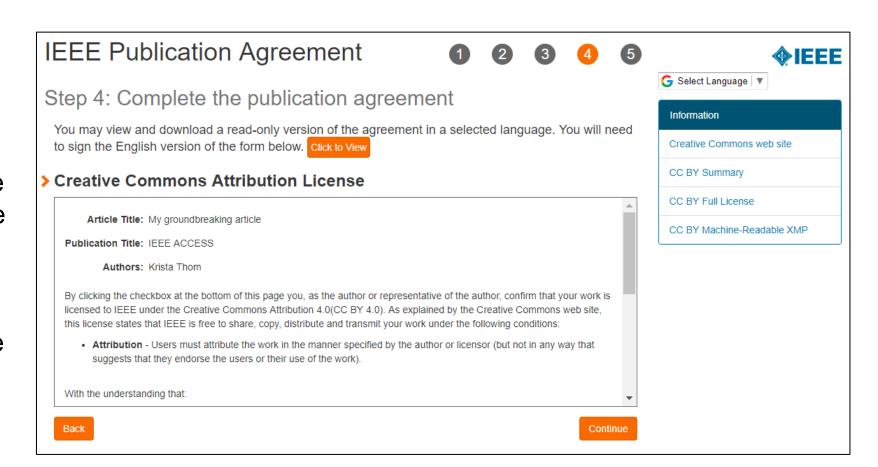
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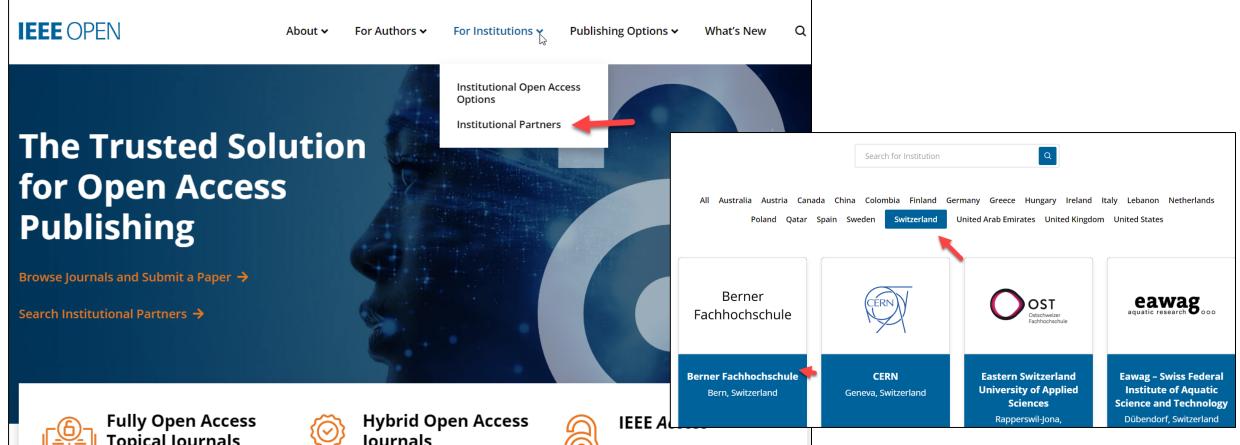
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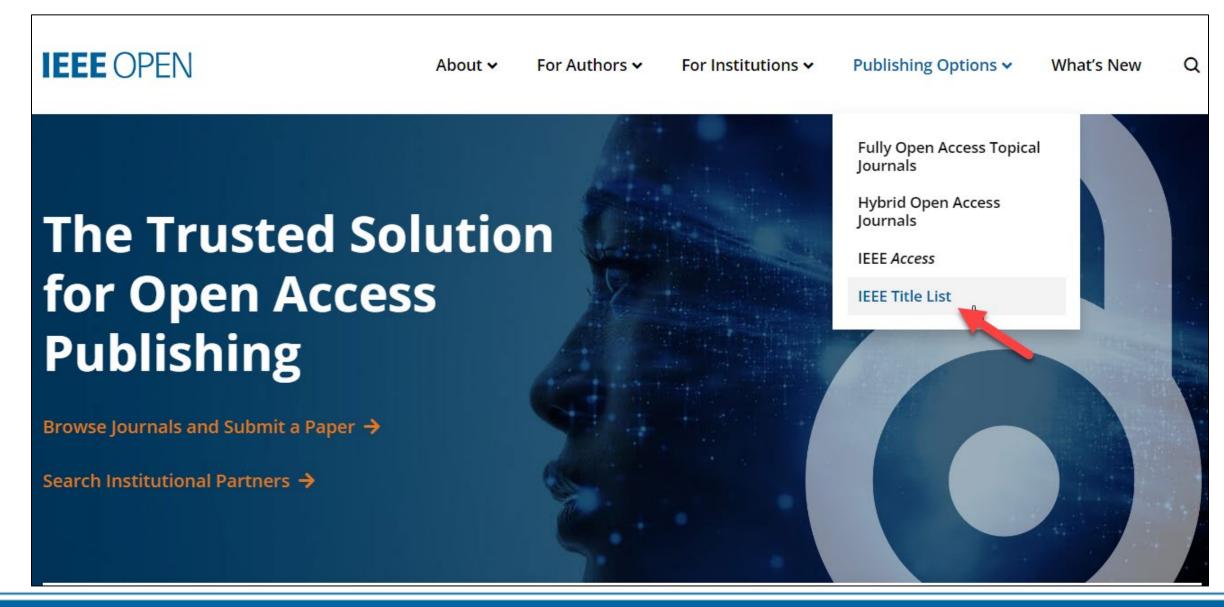
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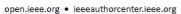
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