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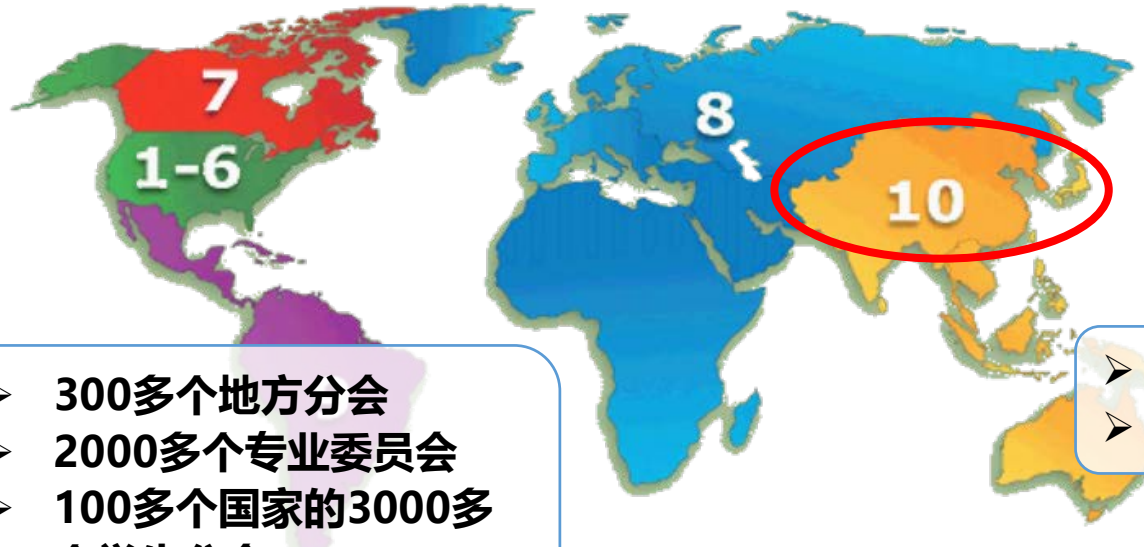

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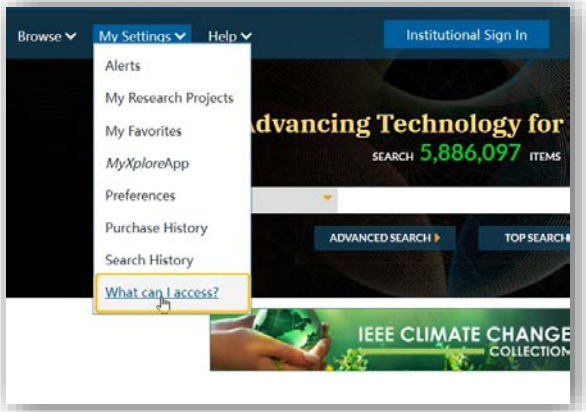

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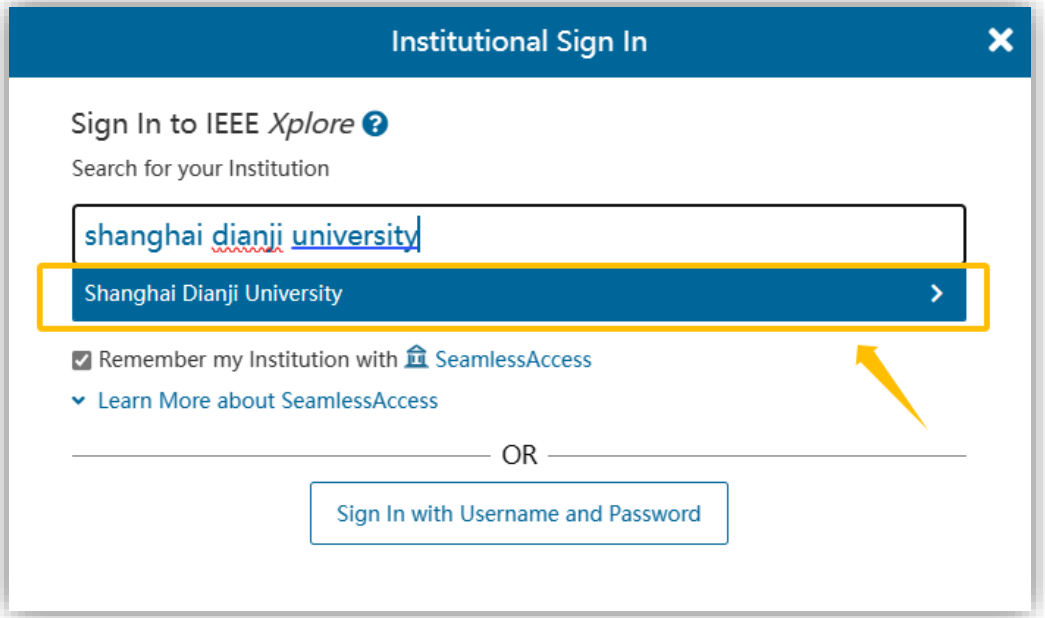
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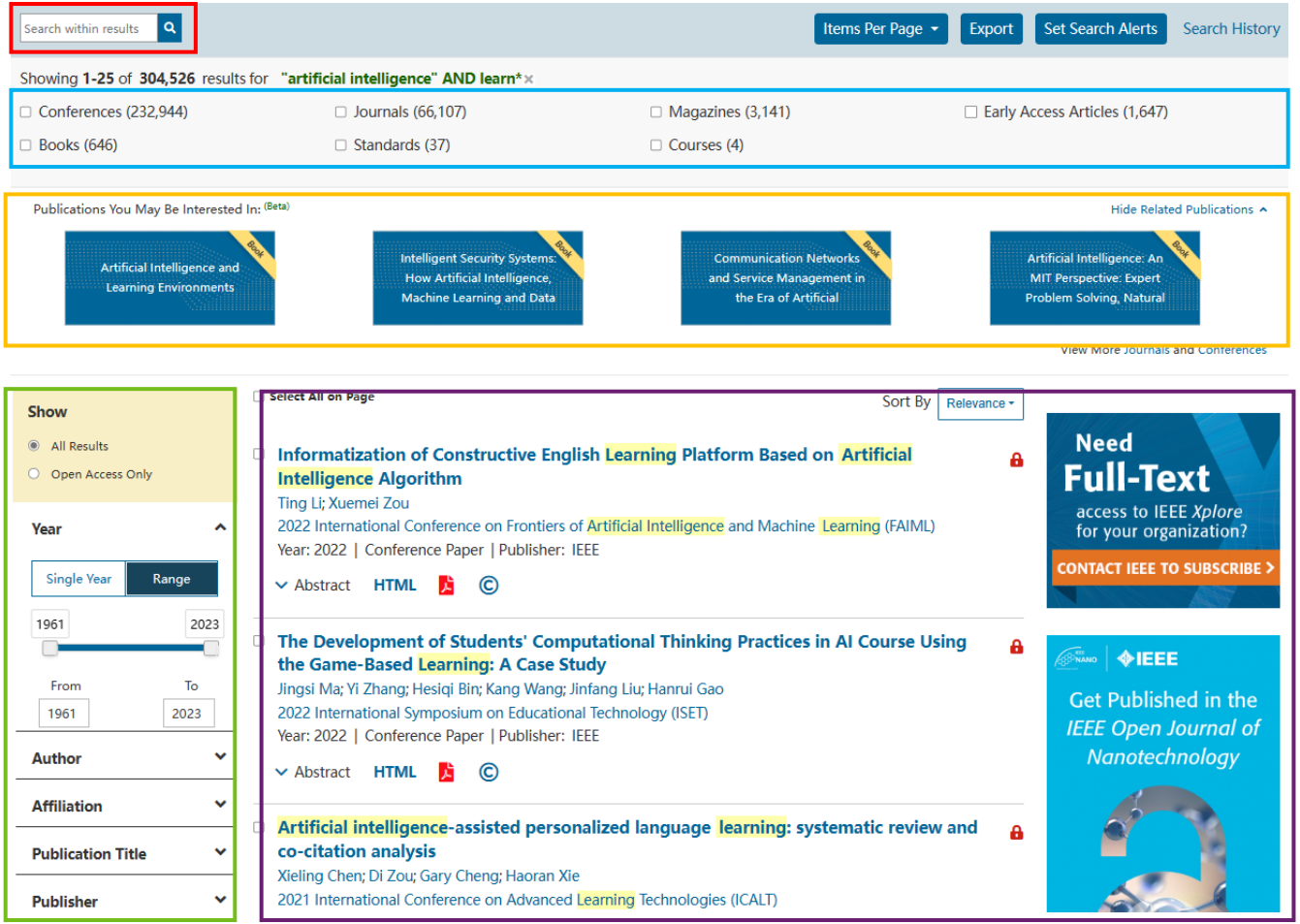

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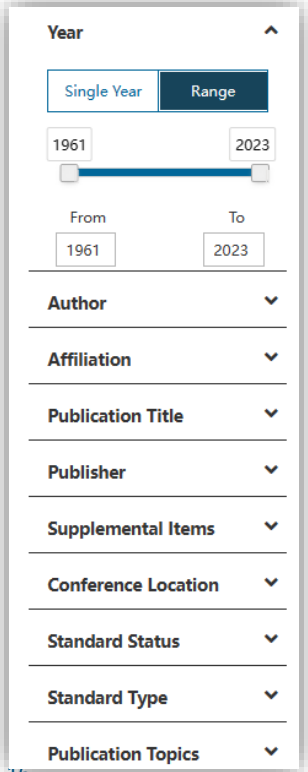
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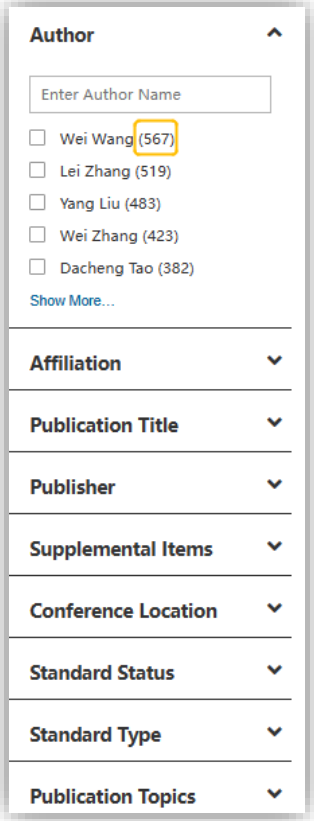
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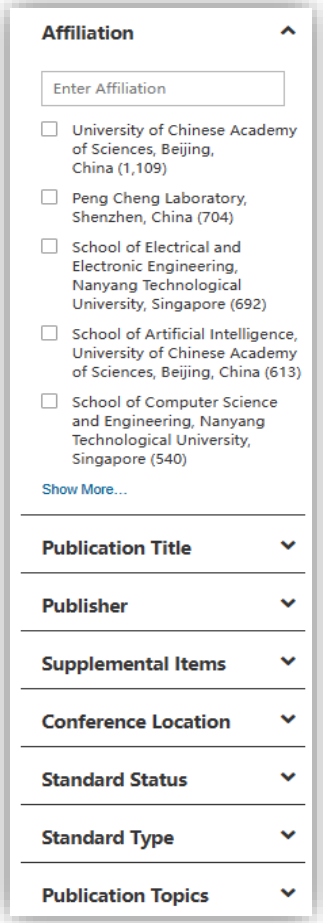
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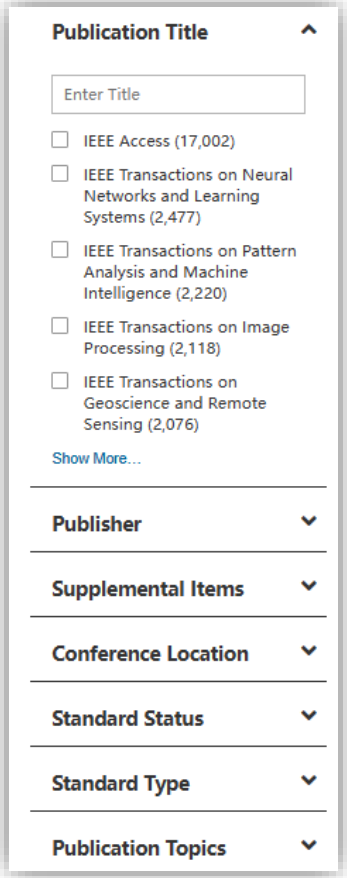
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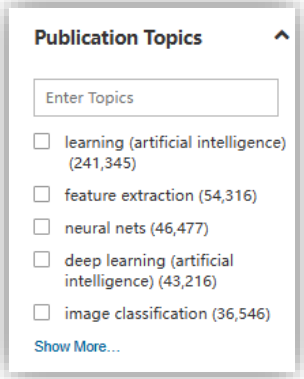
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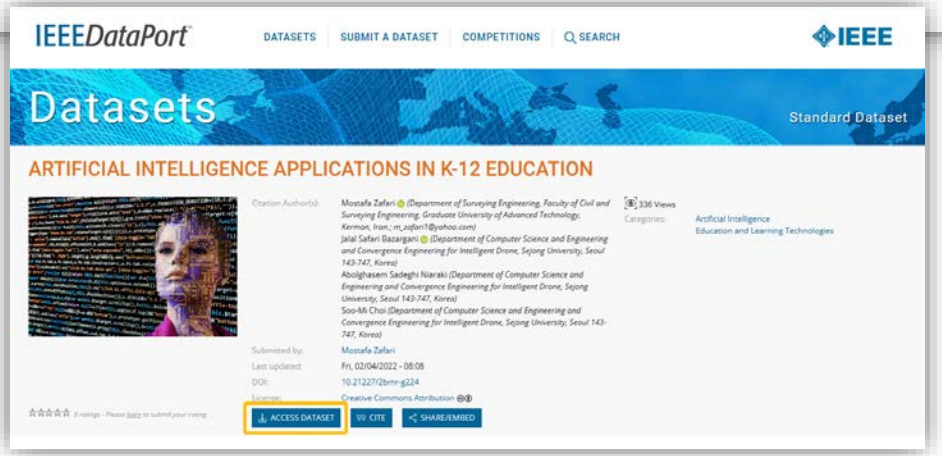

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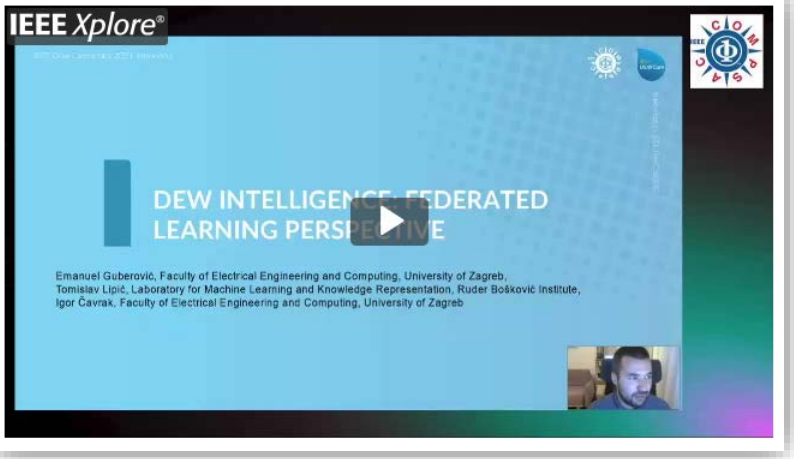

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Dilini Samarasinghe; Michael Barlow; Erandi Lakshika

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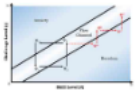

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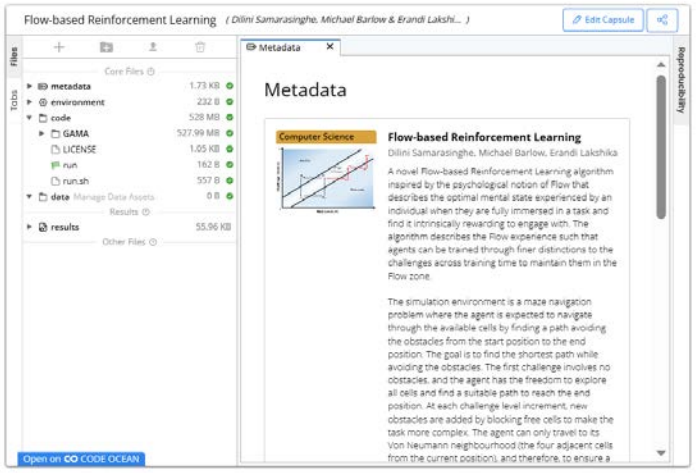

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Dongrui Wu; Ruimin Peng; Jerry M. Mendel

IEEE Computational Intelligence Magazine

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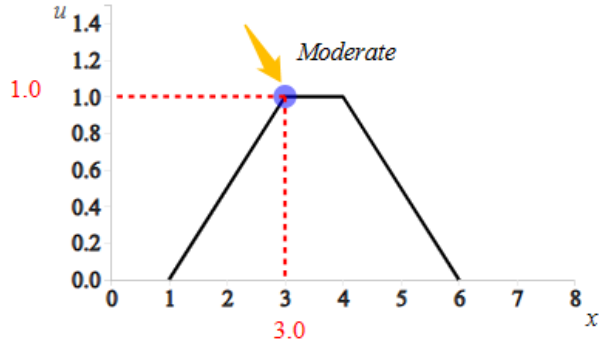

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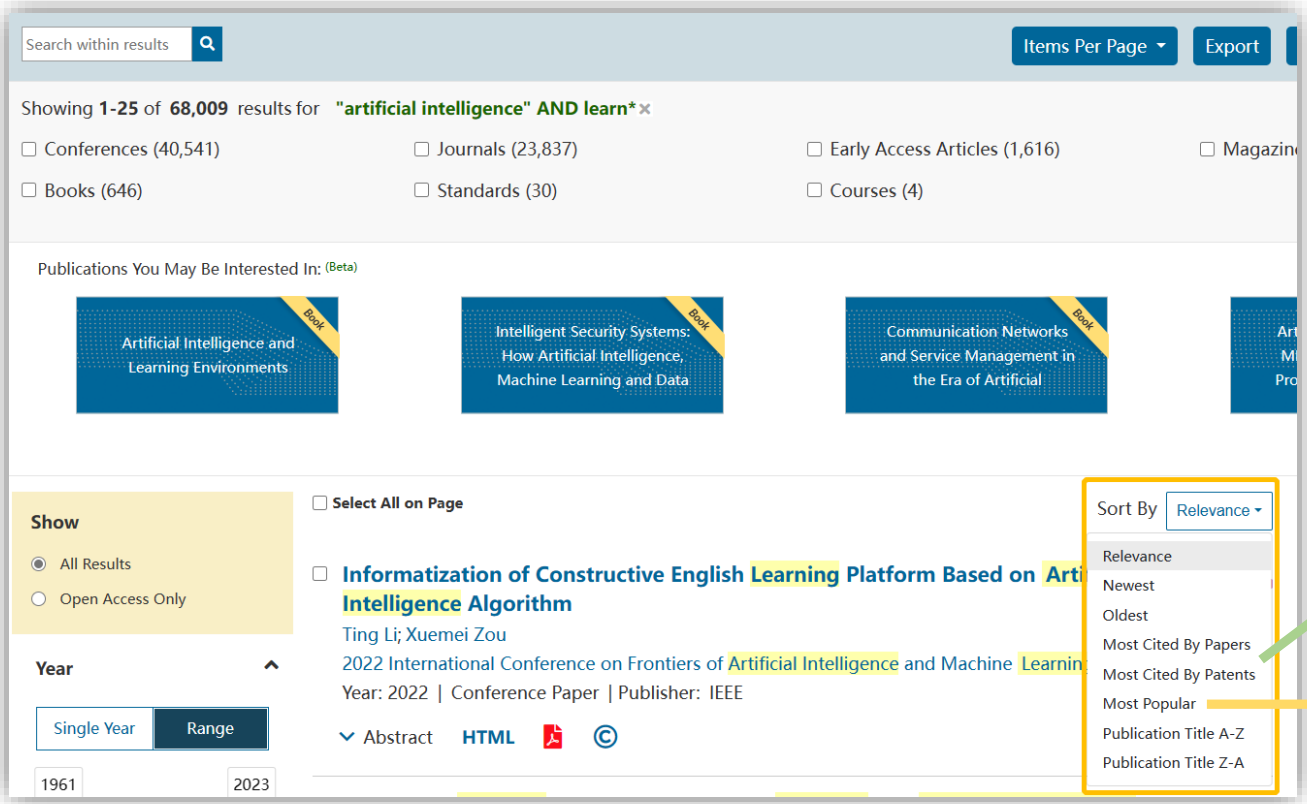

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Published in: IEEE Access (Volume: 5)

Page(s): 21954 - 21961

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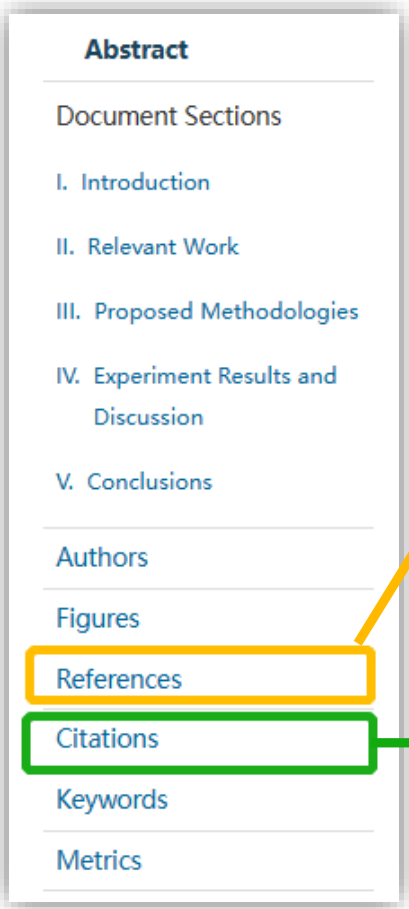

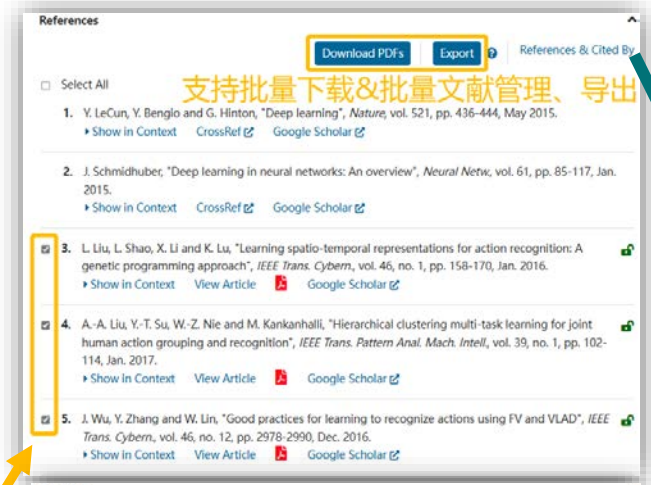

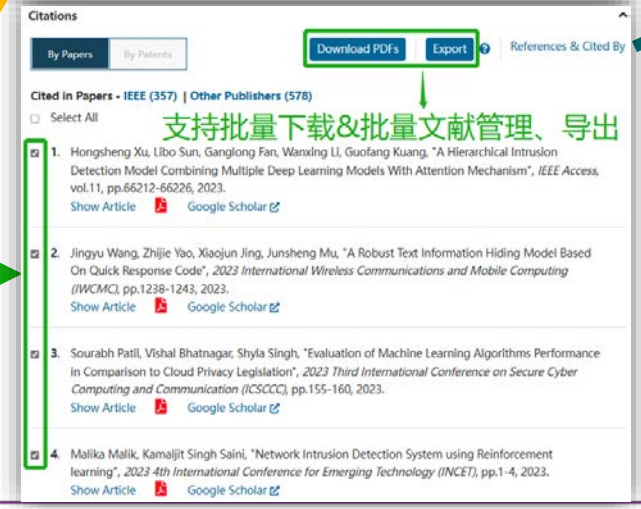

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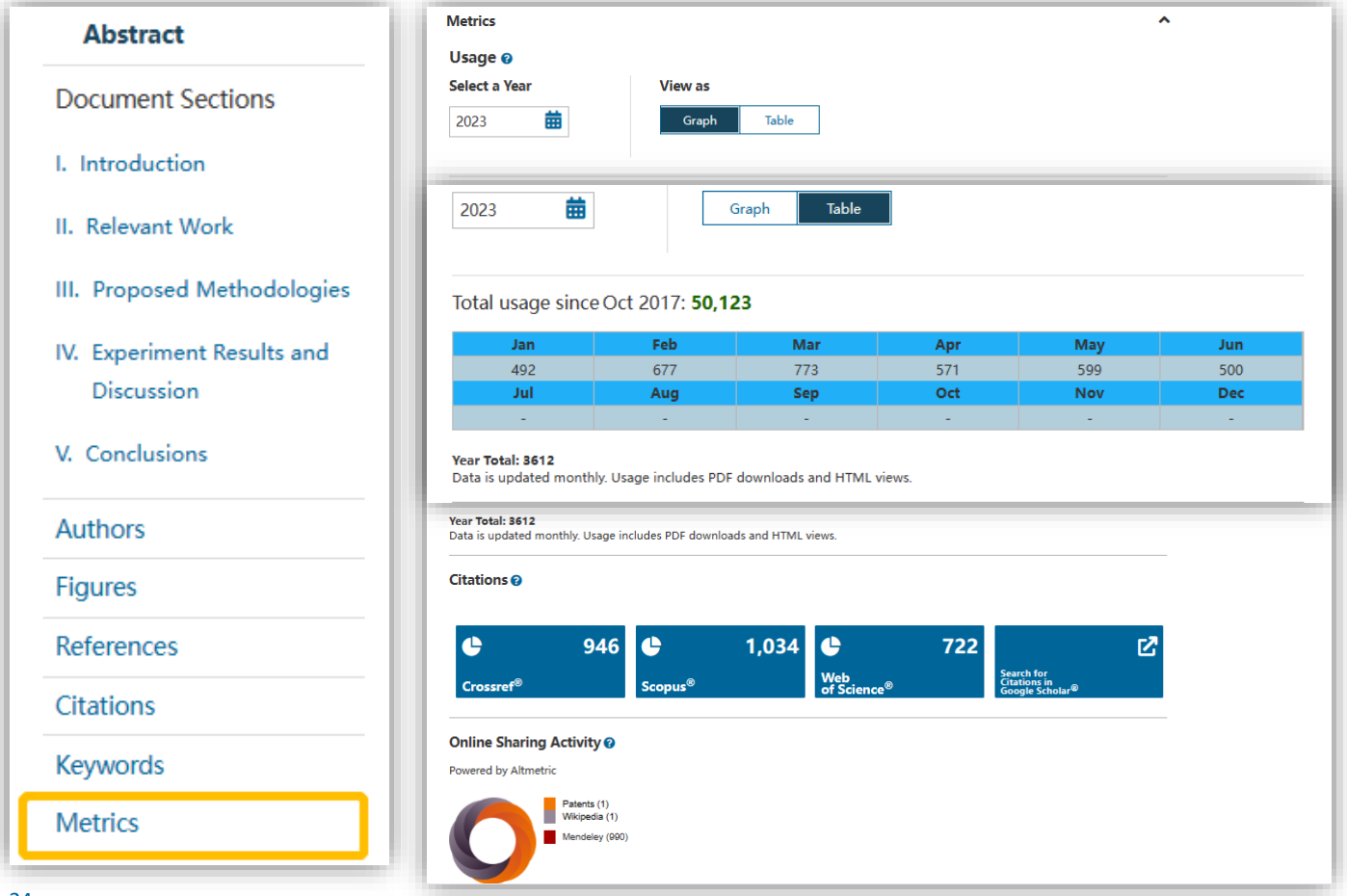

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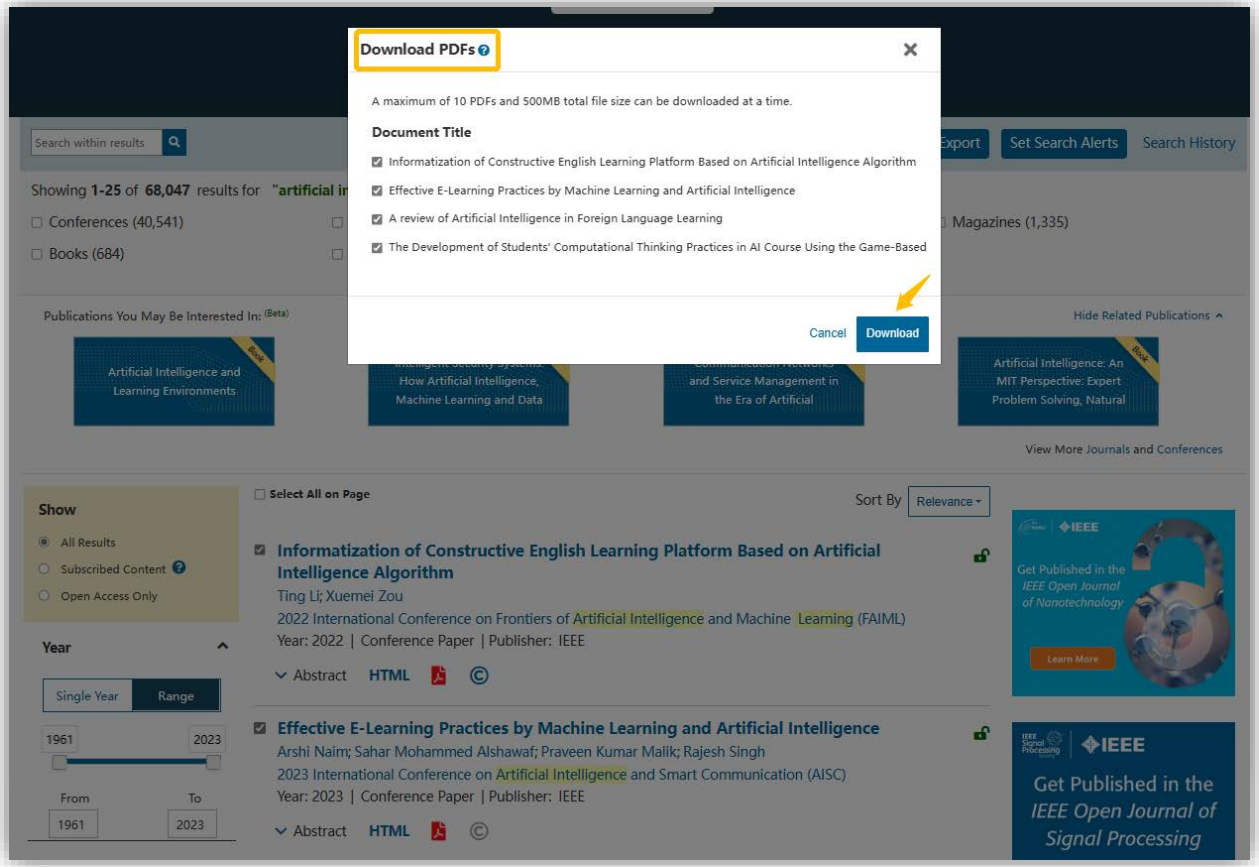

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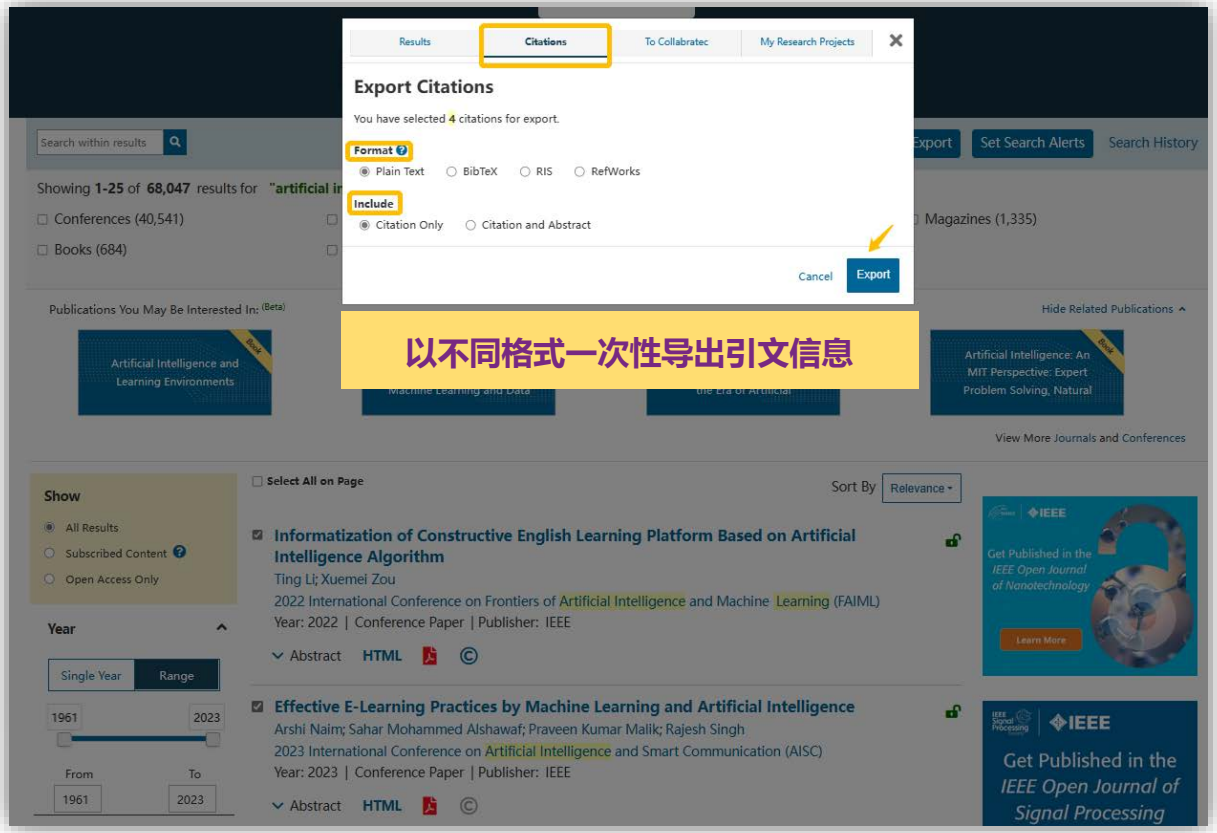
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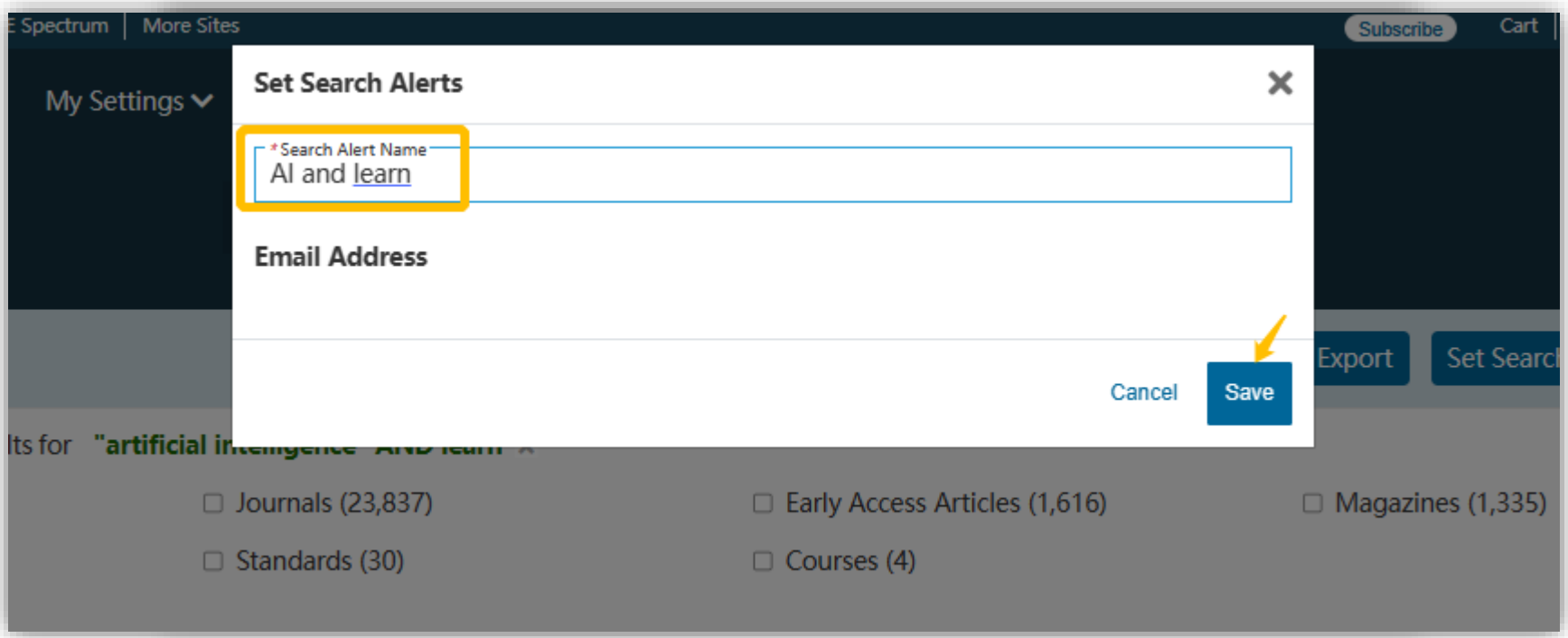

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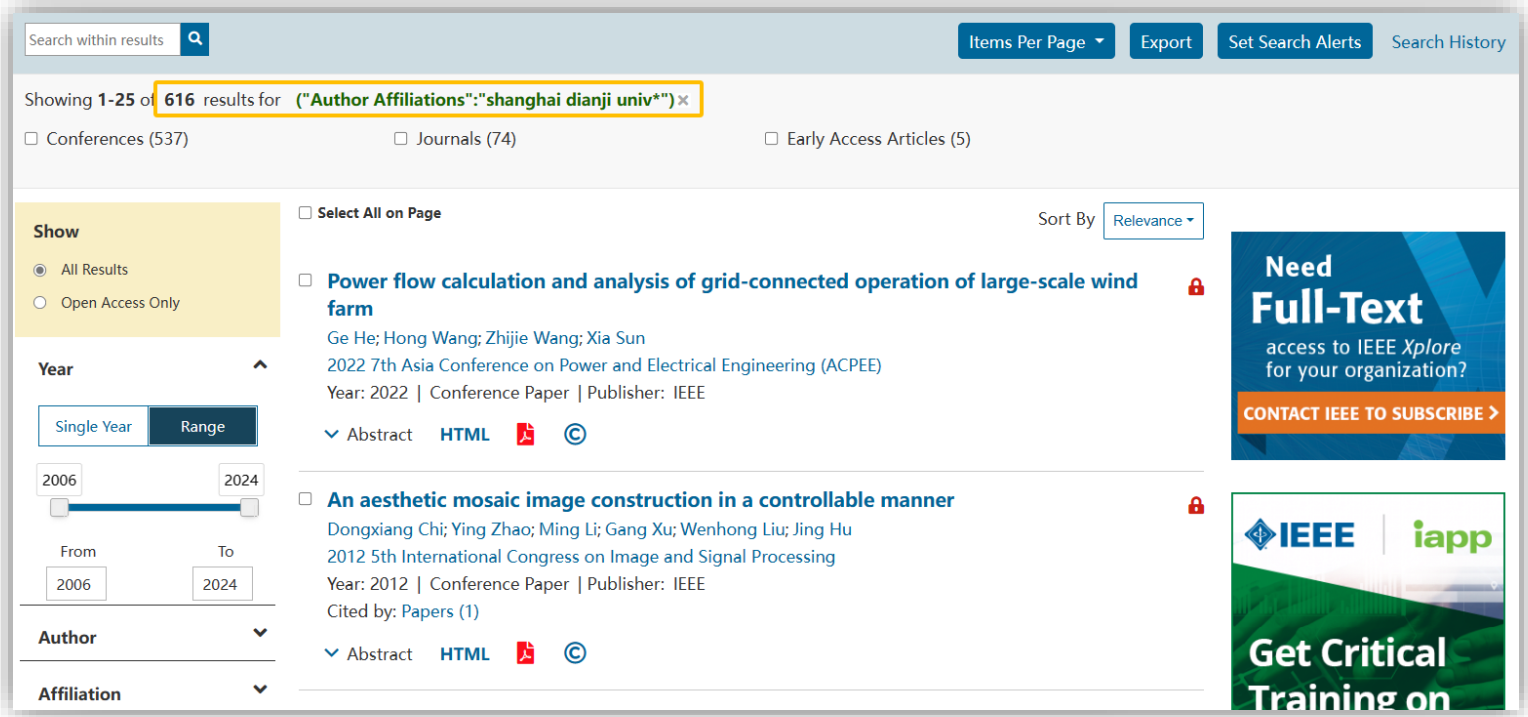

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Biography

Zhijie Wang received the Ph.D. degree from the China University of Mining and Technology, Xuzhou, China, in 2005. He is currently a Professor with the School of Electrical Engineering, Shanghai Dianji University. His research interests include new energy grid connection technology and fault diagnosis of large equipment. *(Based on document published on 23 November 2021).*

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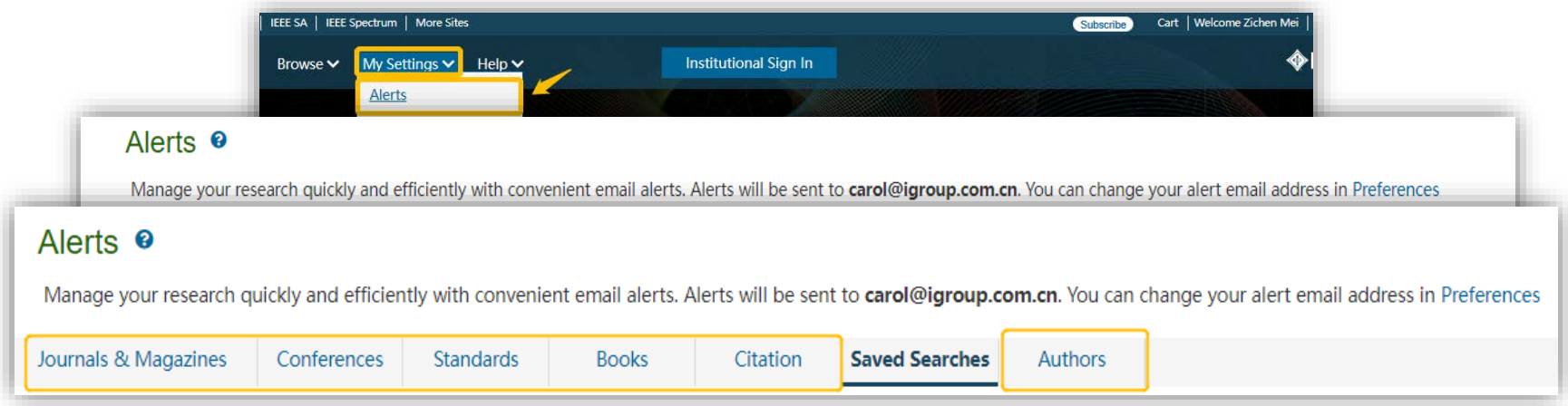

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Publisher: IEEE
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Chuanlong Yin ; Yuefei Zhu ; Jinlong Fei ; Xinzheng He All Authors
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Abstract:
Intrusion detection plays an important role in ensuring information security, and the key technology is to accurately identify various attacks in the network. In this paper, we explore how to model an intrusion detection system based on deep learning, and we propose a deep learning approach for intrusion detection using recurrent neural networks (RNN-IDS). Moreover, we study the performance of the model in binary classification and multiclass classification, and the number of neurons and different learning rate impacts on the performance of the proposed model. We compare it with those of J48, artificial neural network, random forest, support vector machine, and other machine learning methods proposed by previous researchers on the benchmark data set. The experimental results show that RNN-IDS is very suitable for modeling a classification model with high accuracy and that its performance is superior to that of traditional machine learning classification methods in both binary and multiclass classification. The RNN-IDS model improves the accuracy of the intrusion detection and provides a new research method for intrusion detection.
Published in: IEEE Access (Volume: 5)
Page(s): 21954 - 21961
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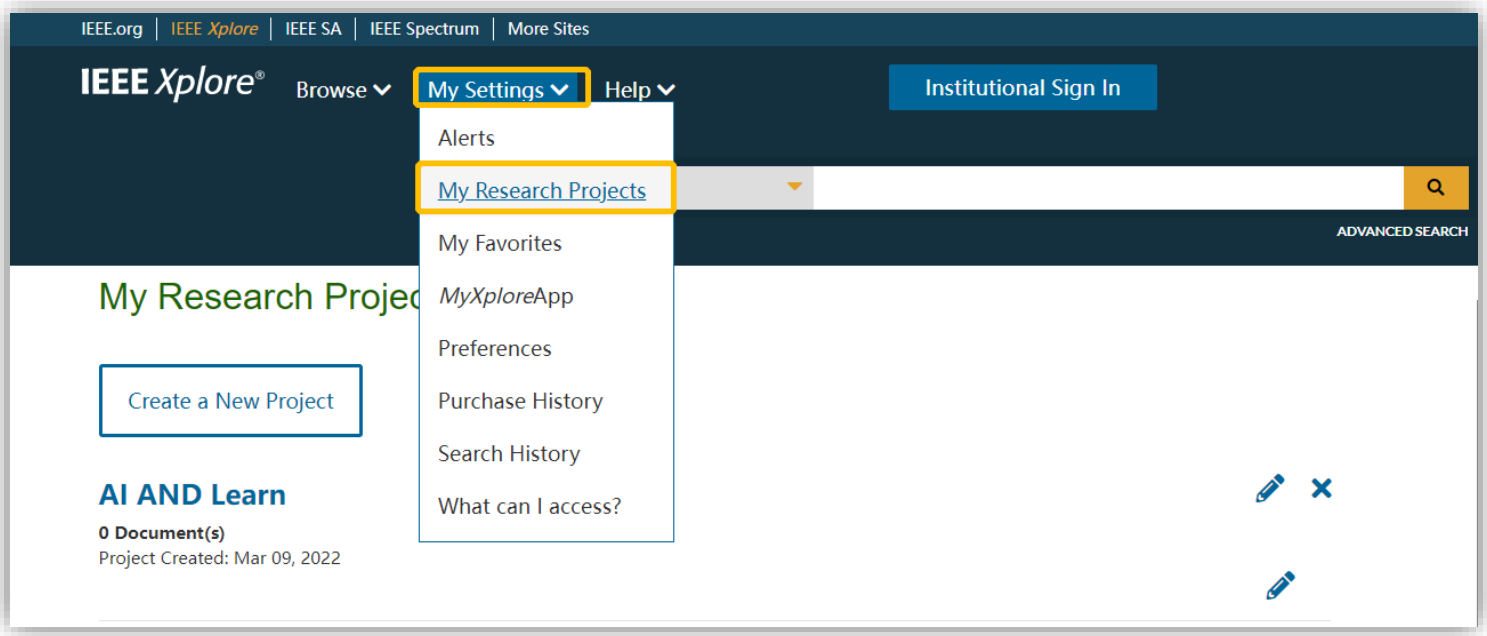

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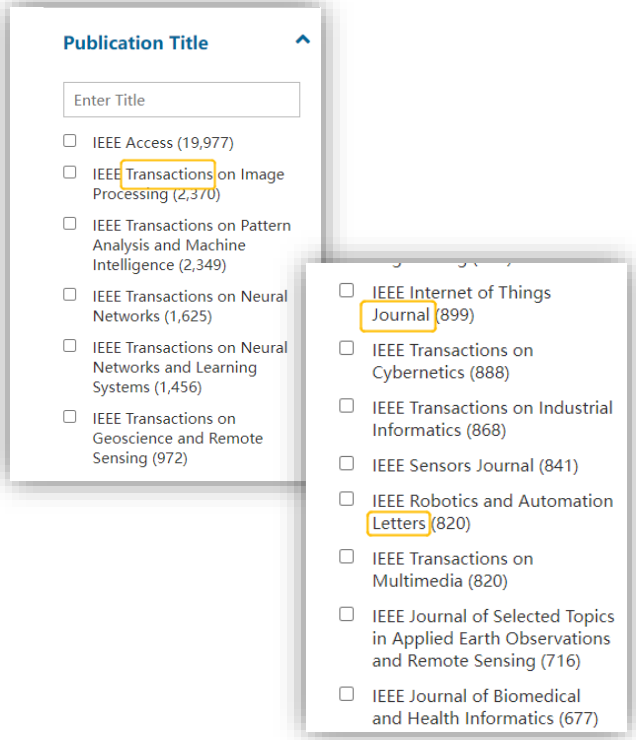

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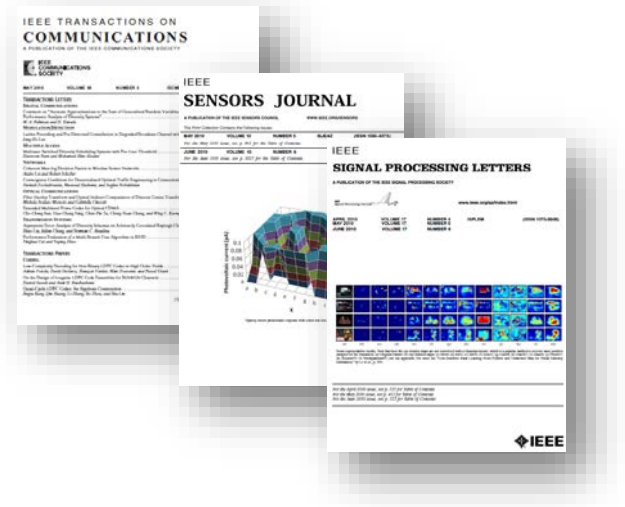

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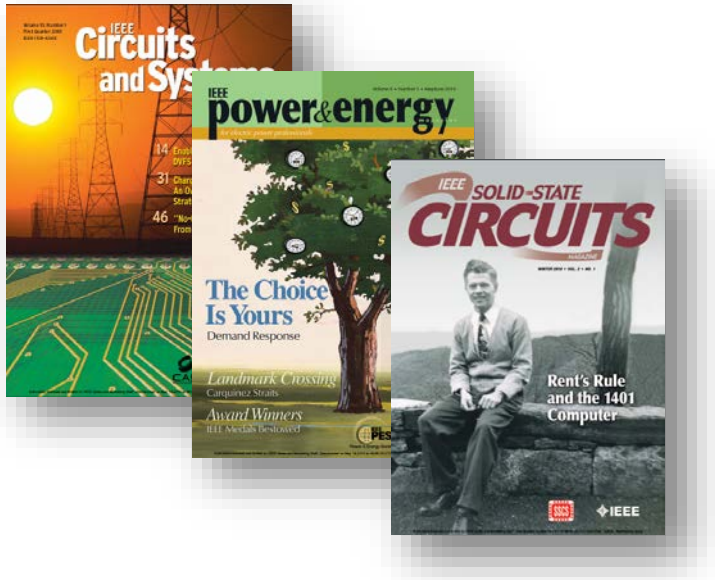

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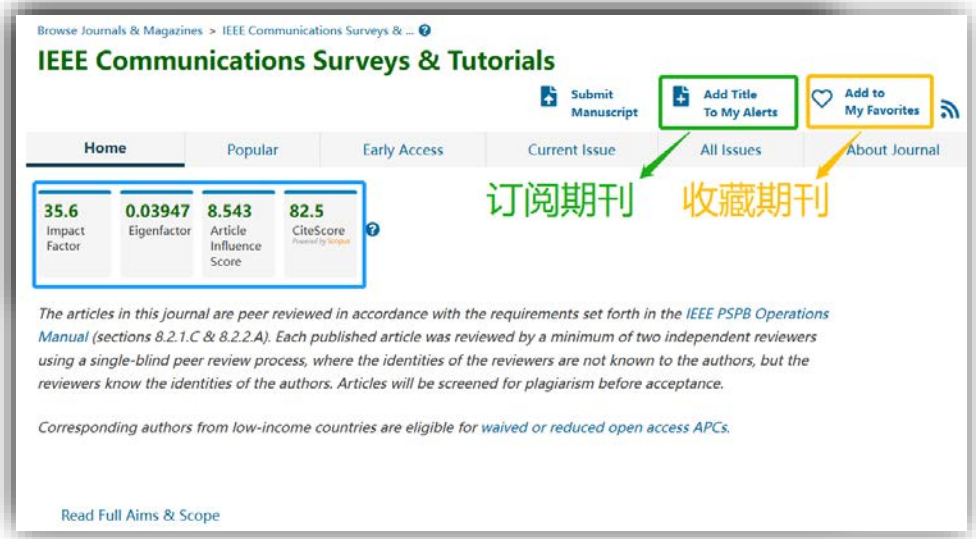
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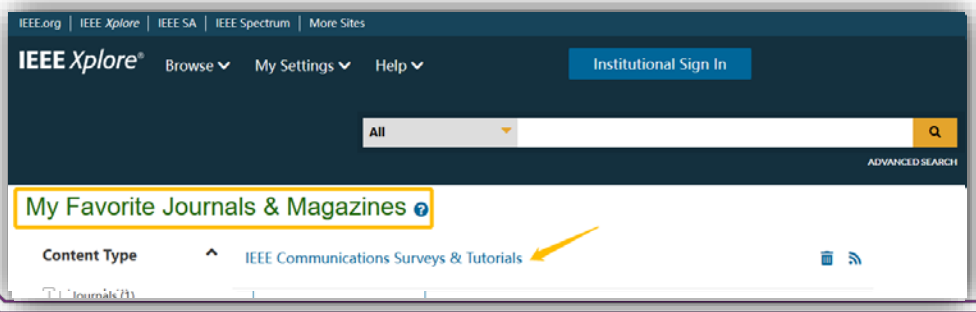
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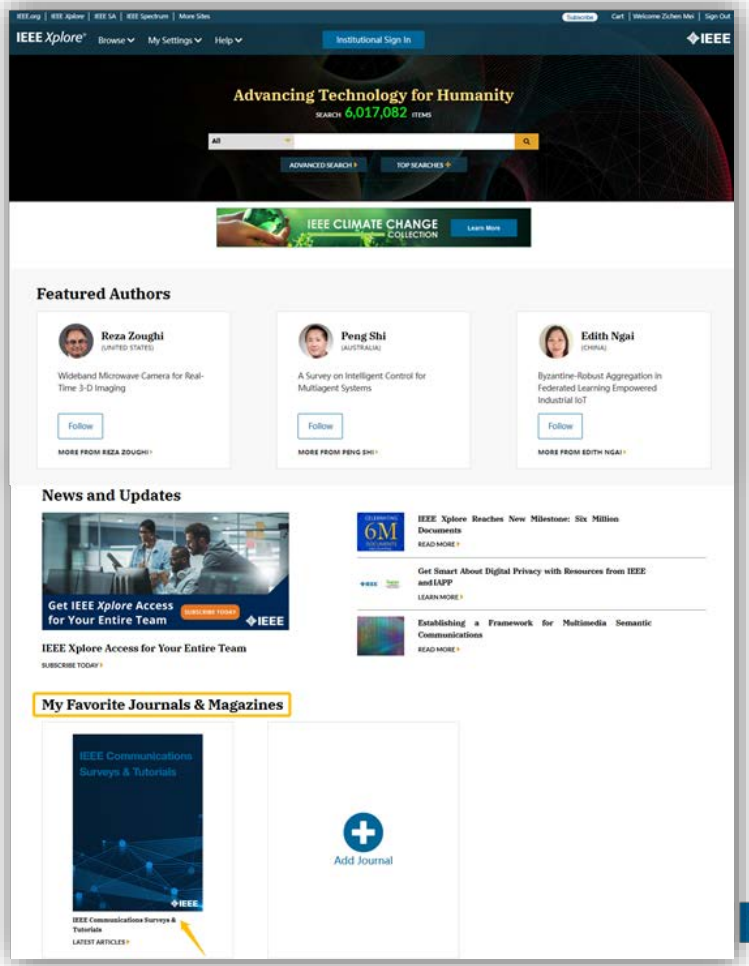
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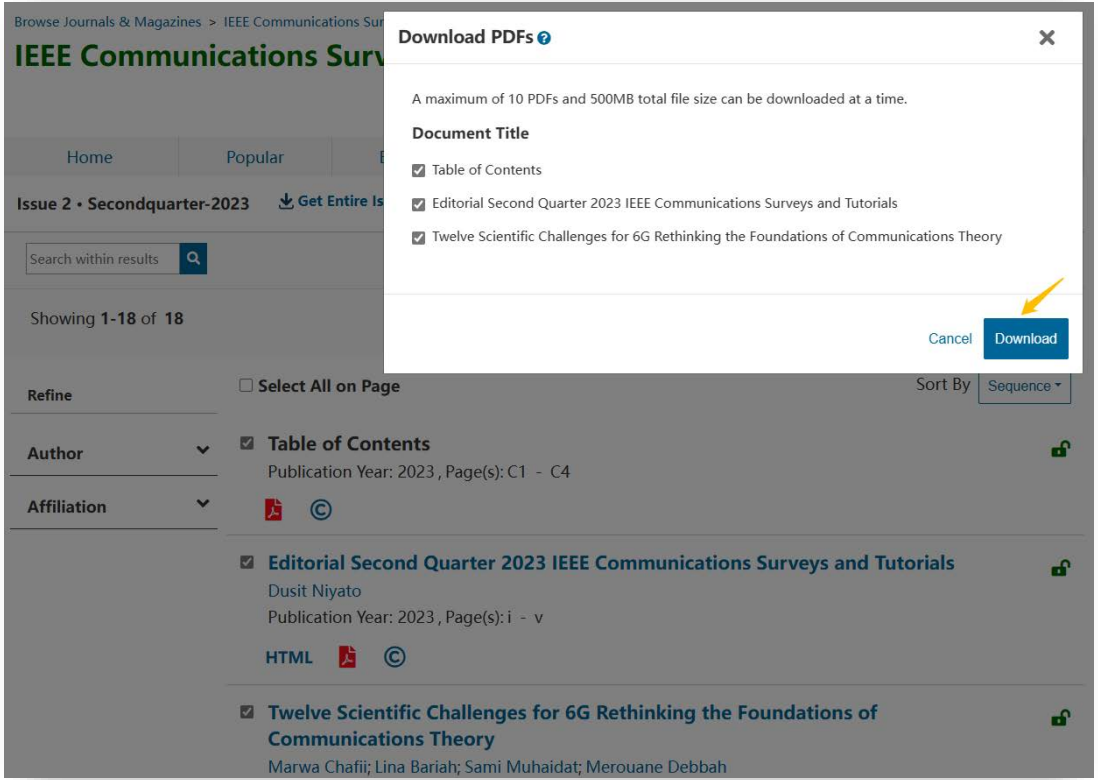
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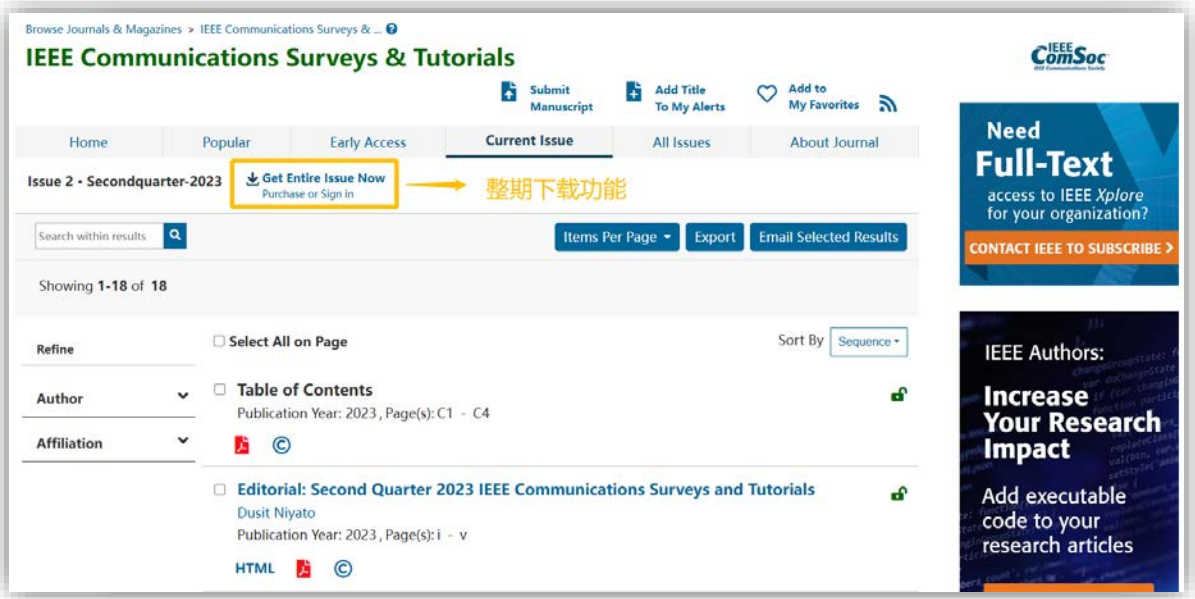
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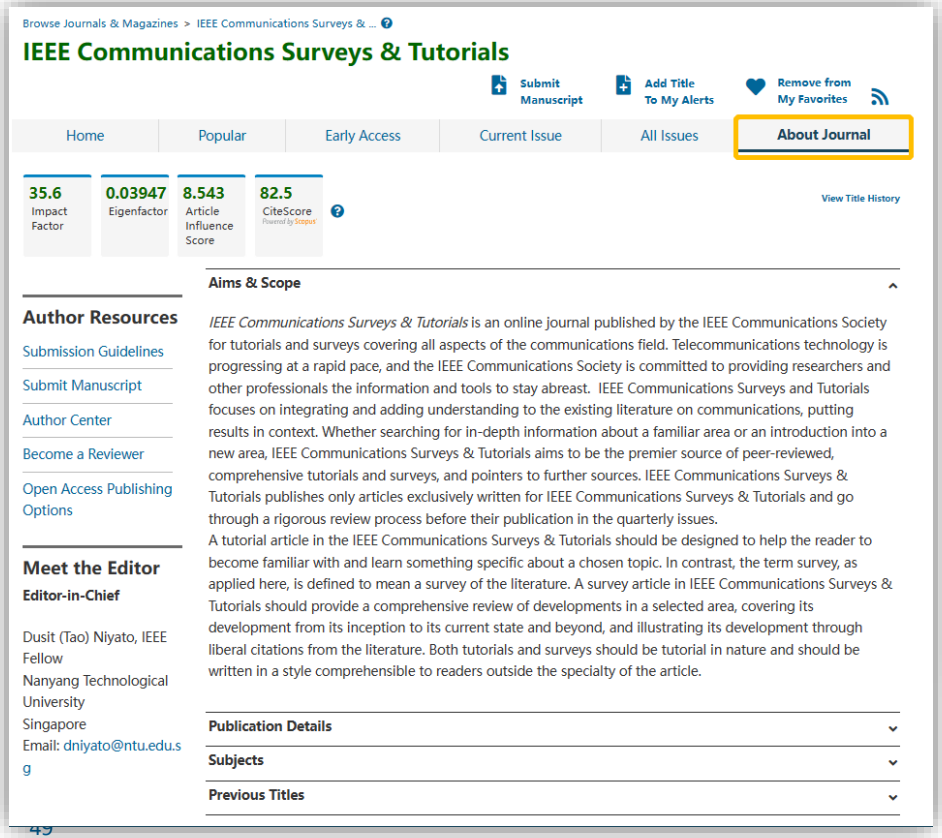

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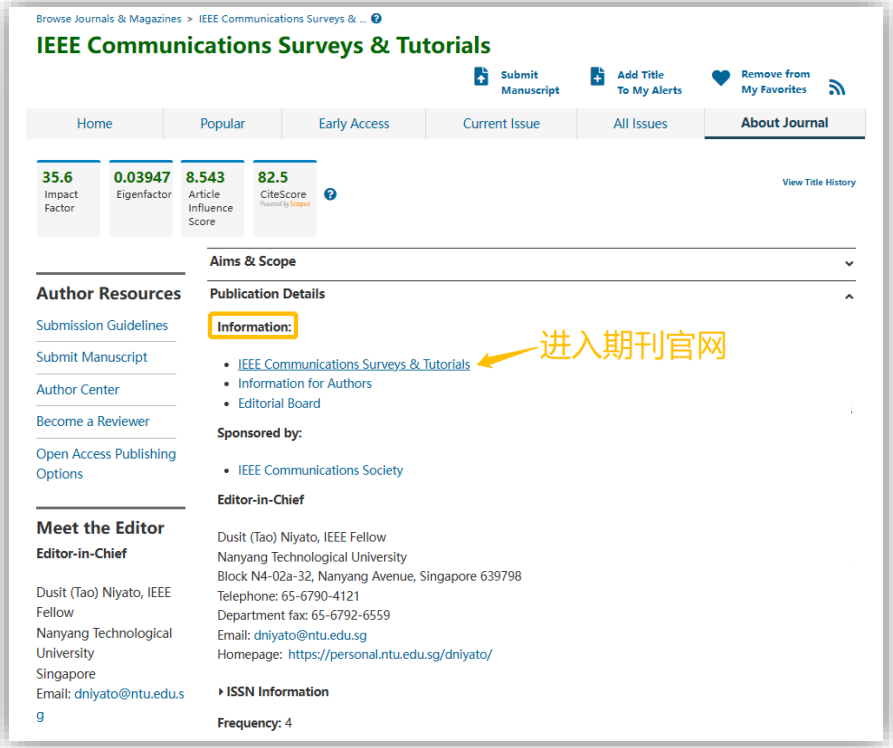

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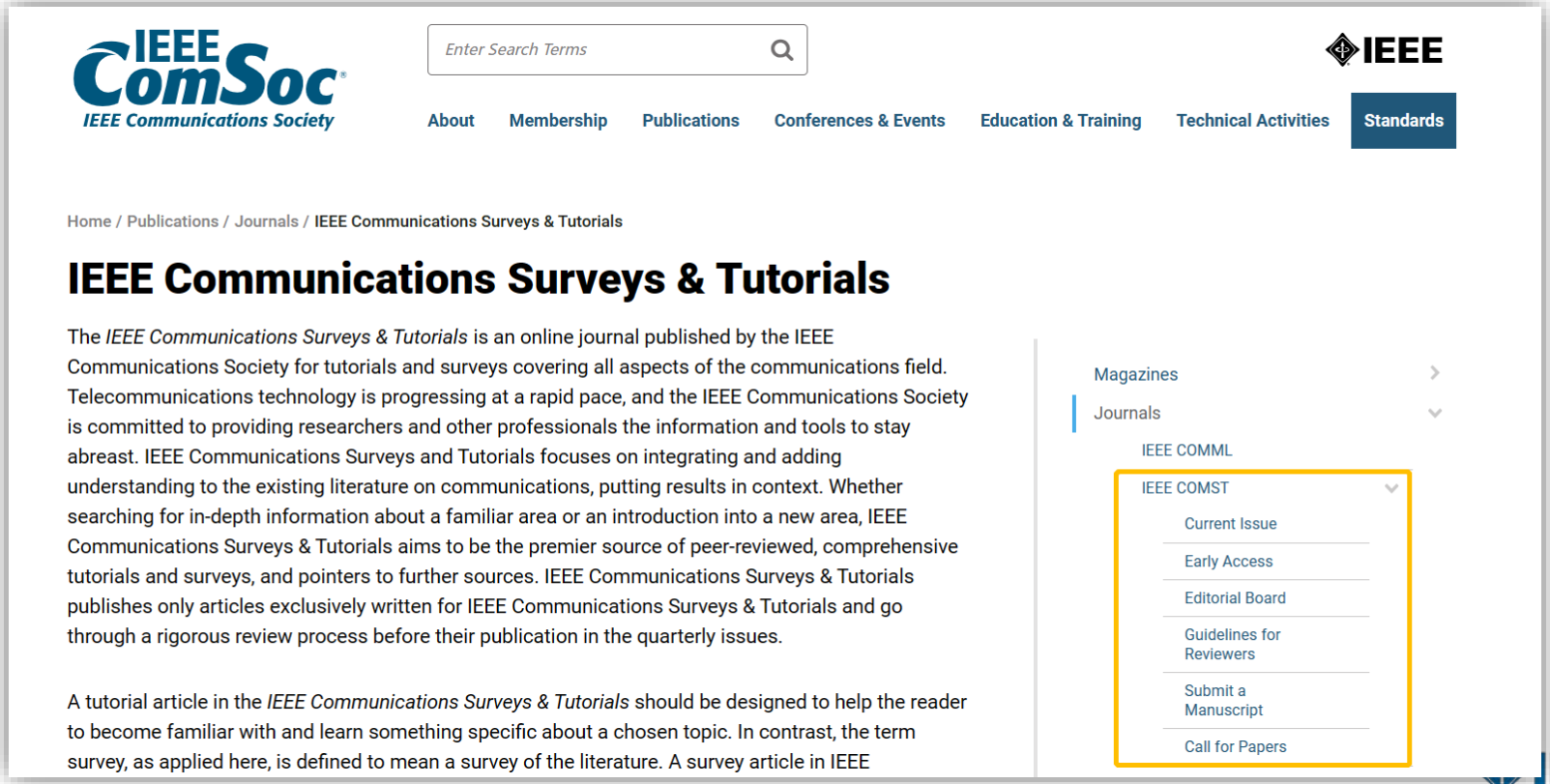
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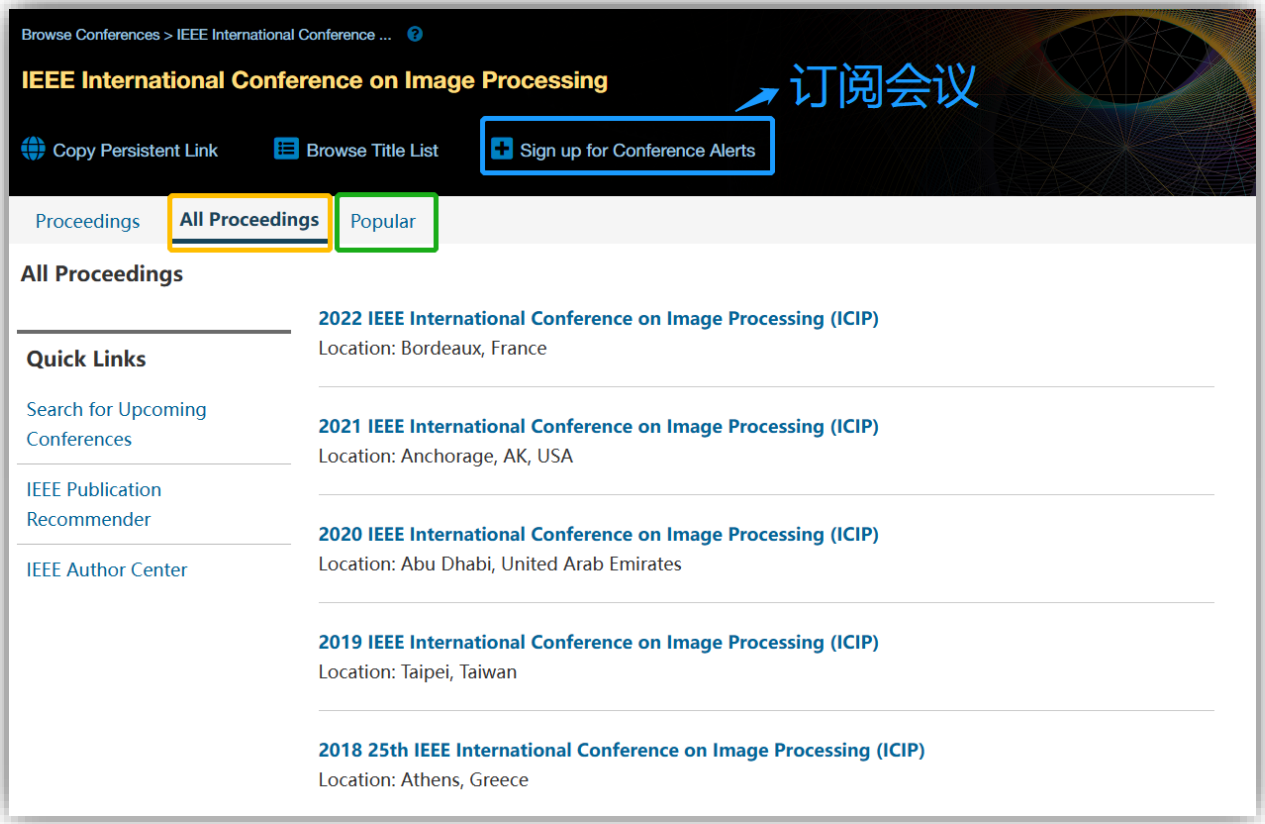
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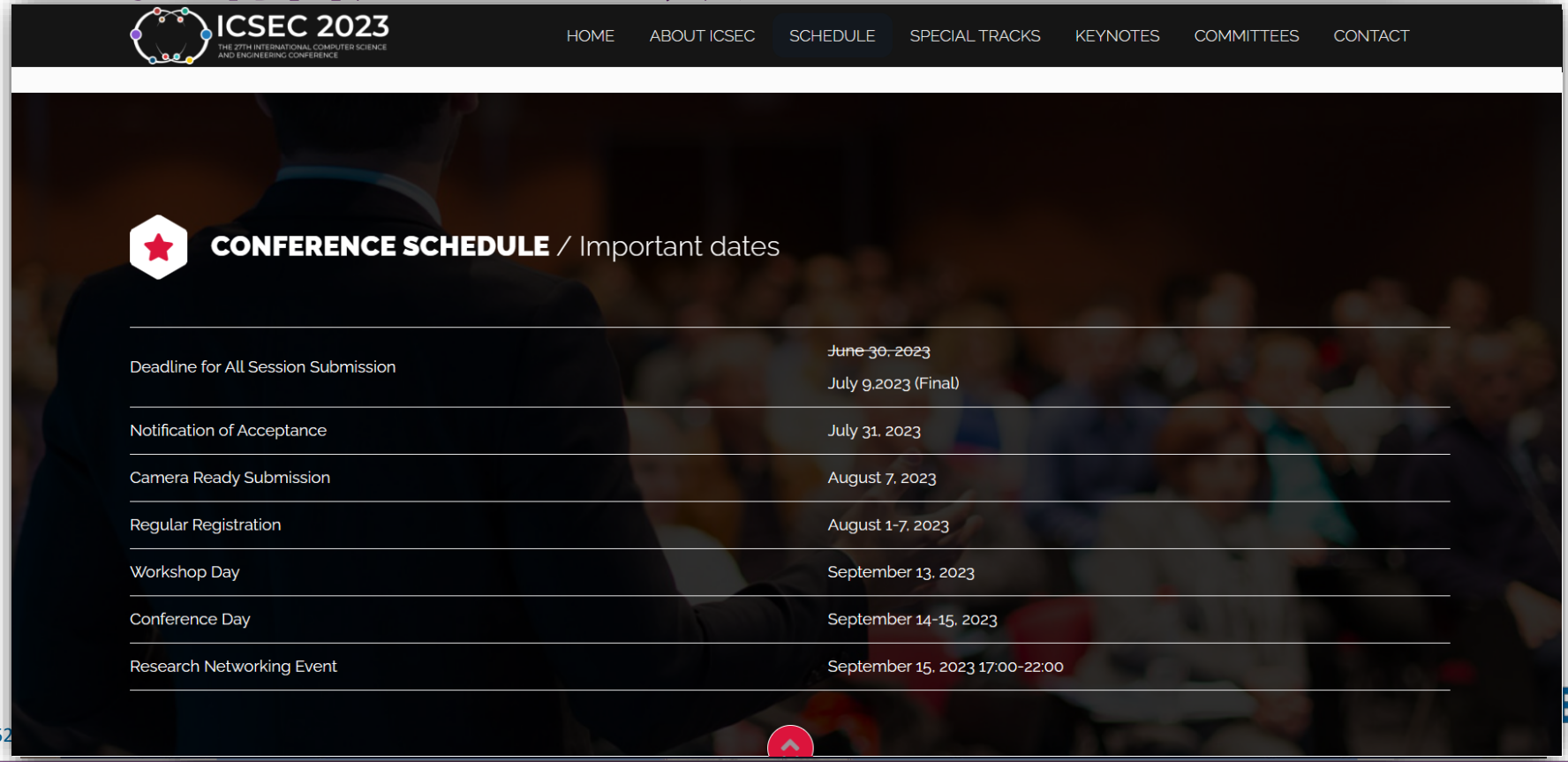

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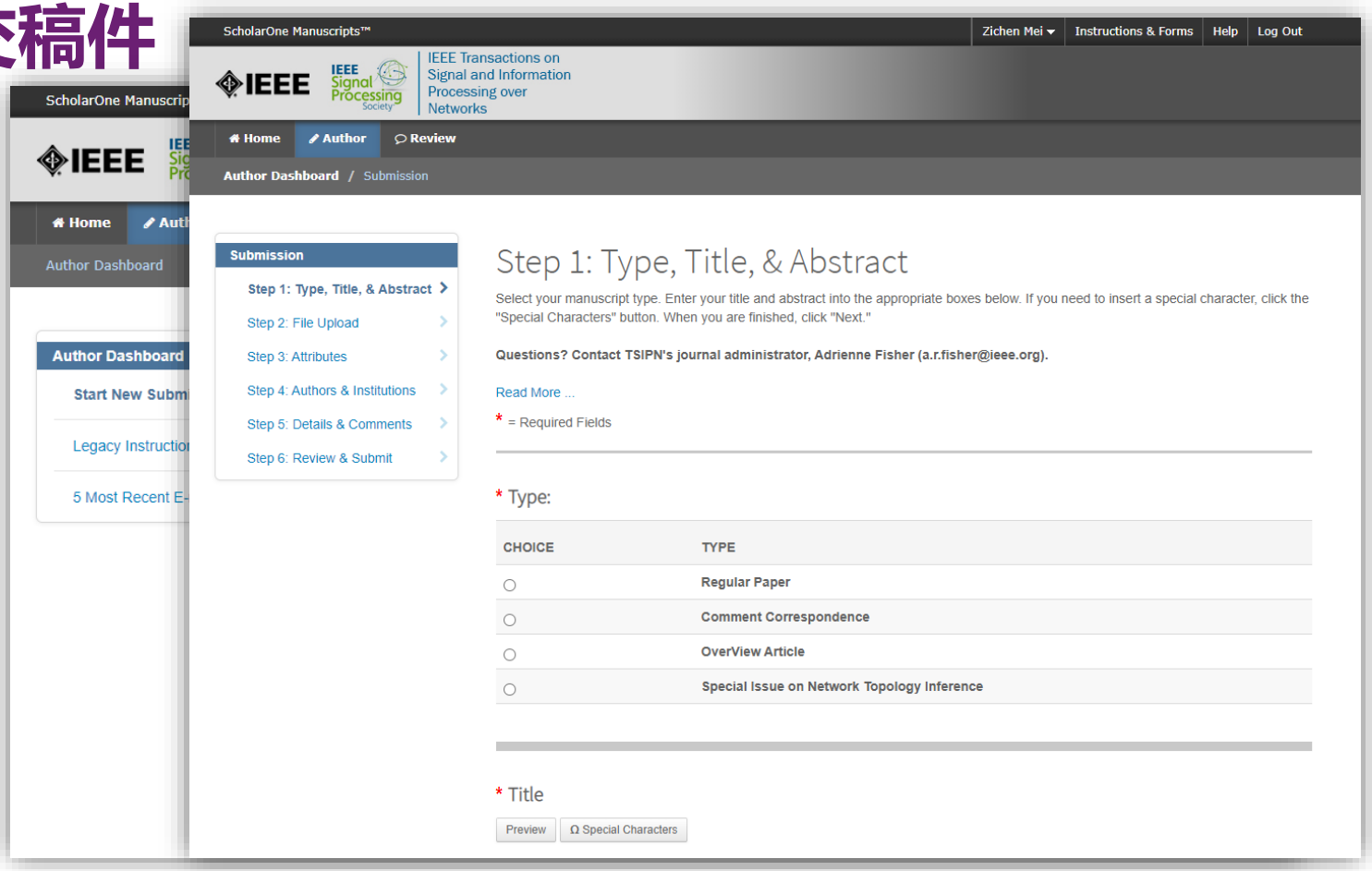
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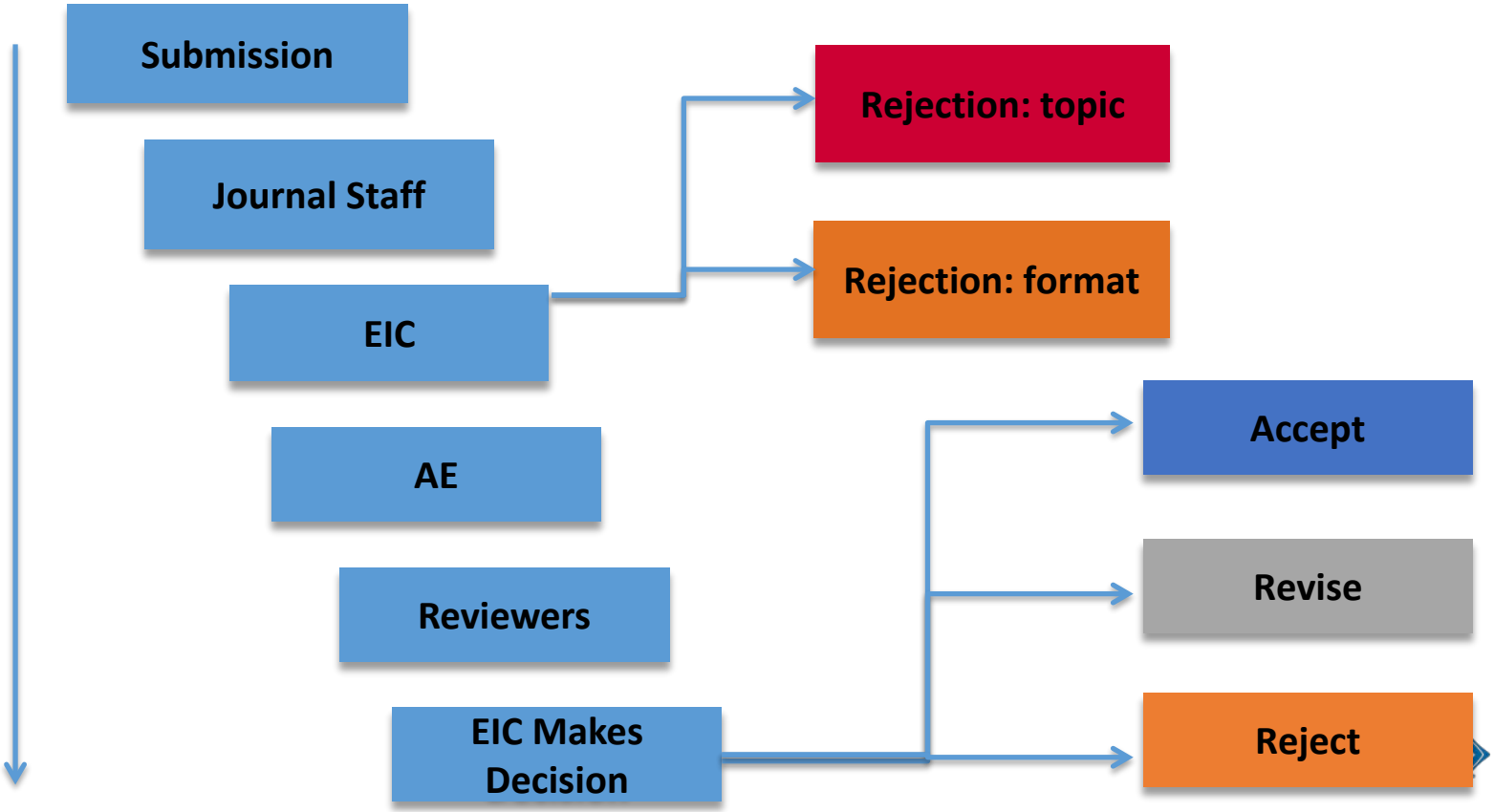

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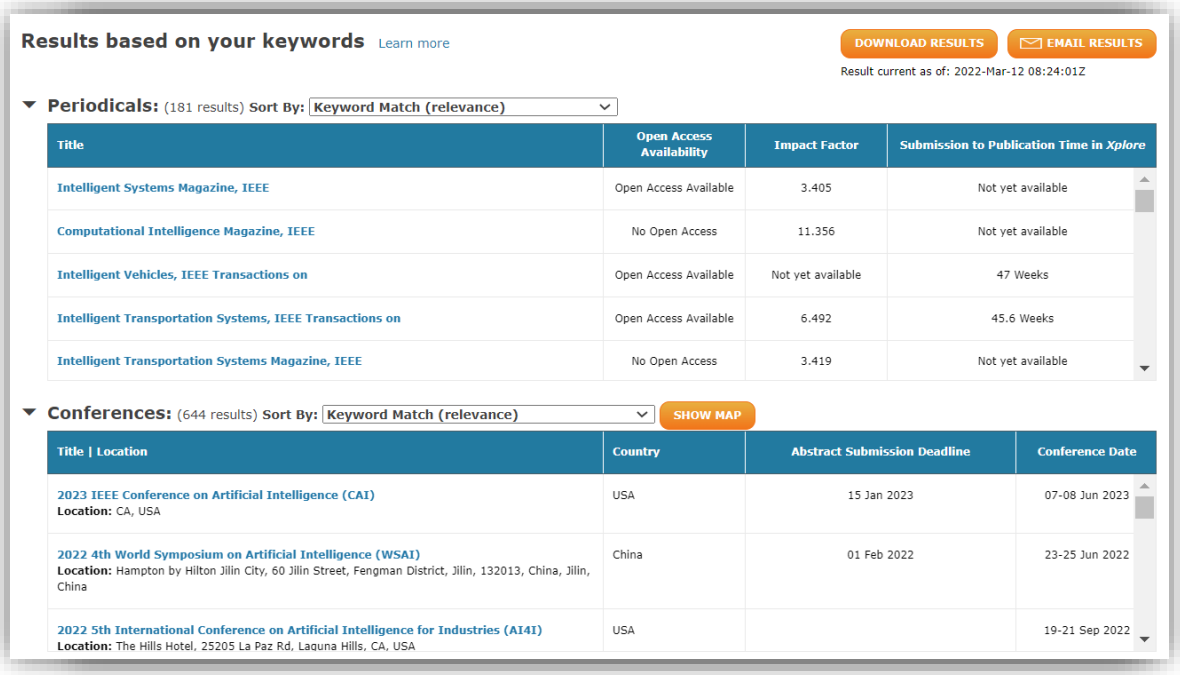

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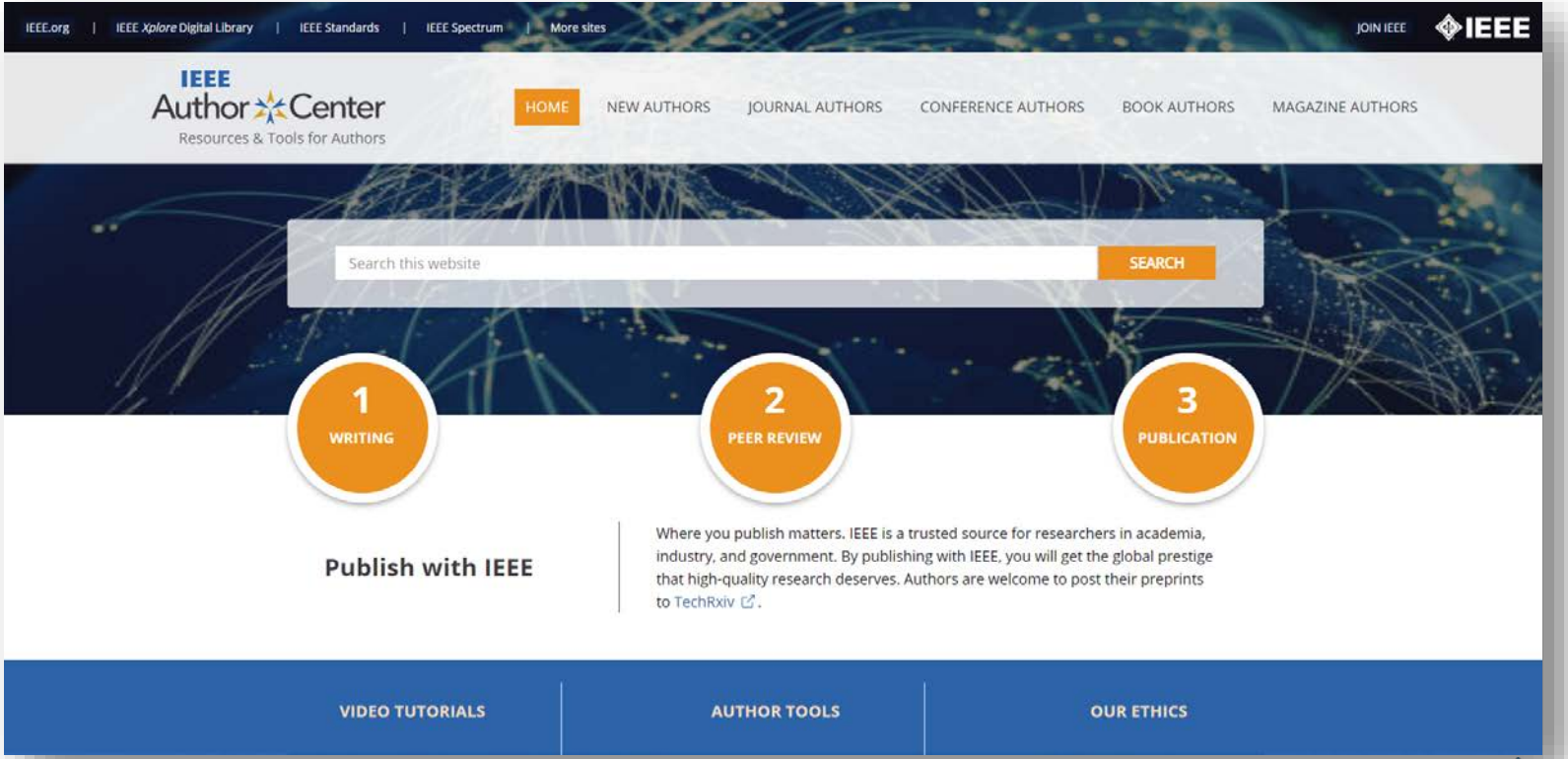

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