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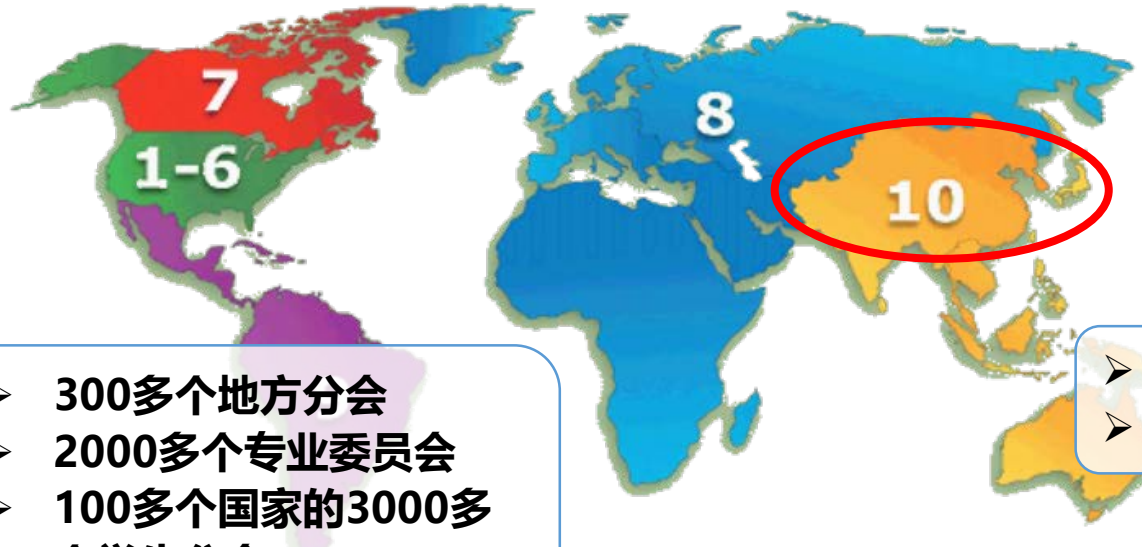

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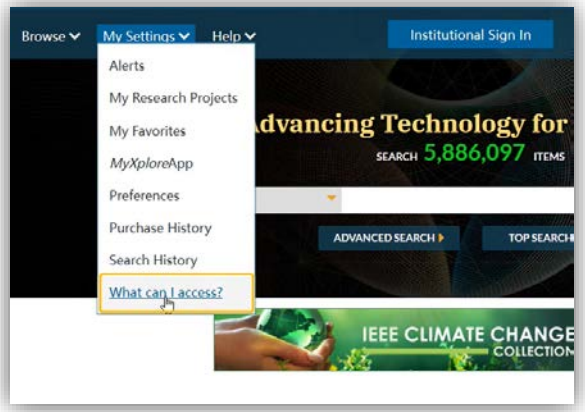

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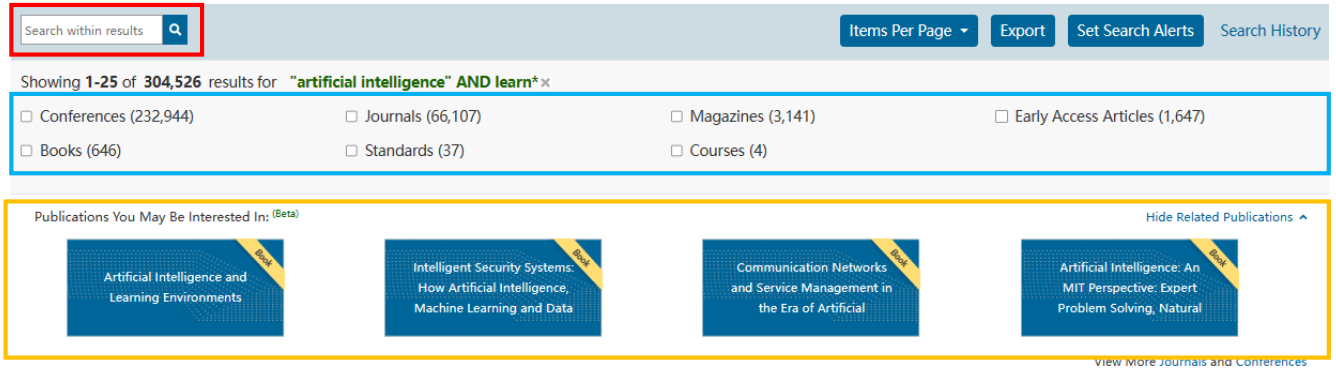

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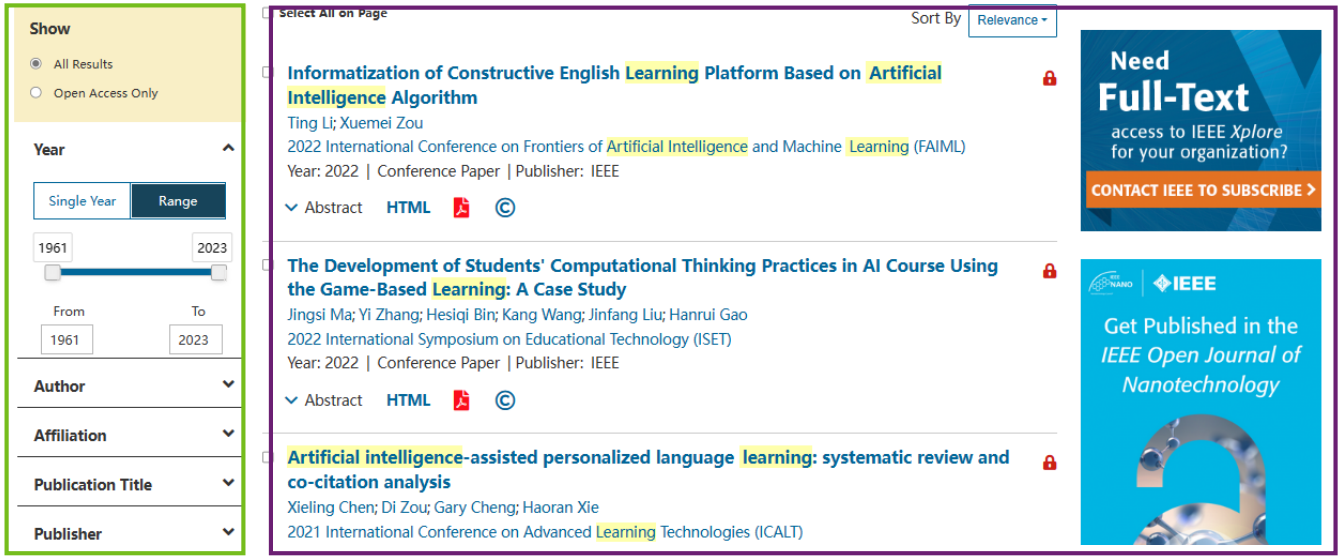

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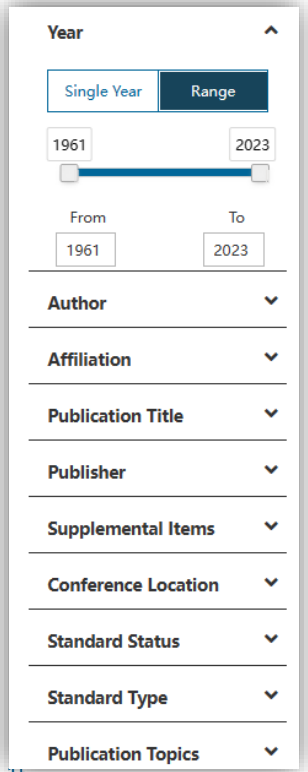
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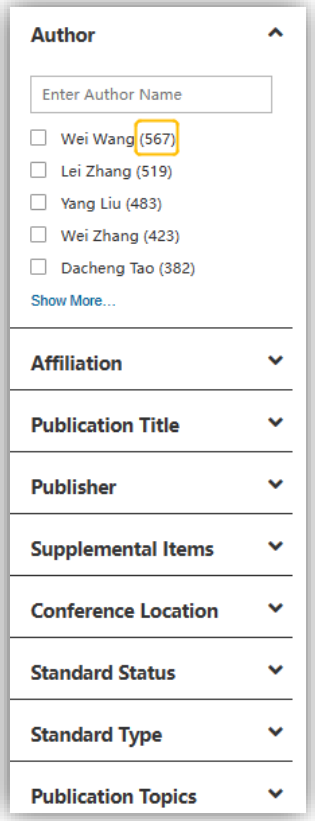
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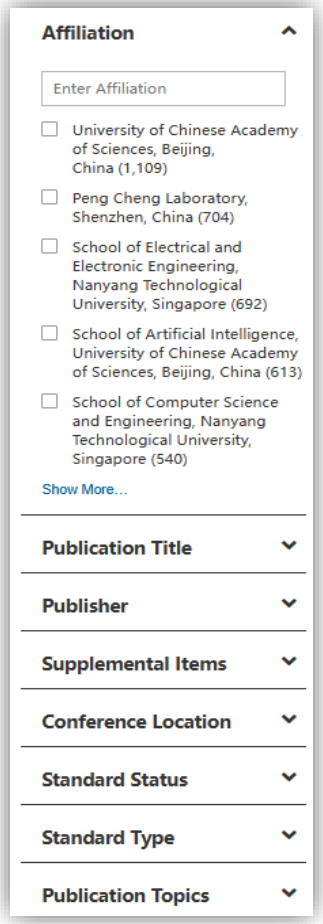
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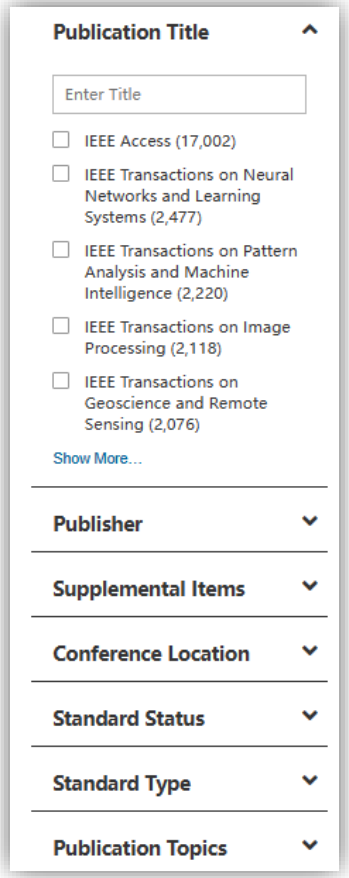
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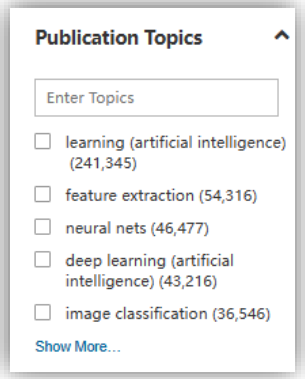
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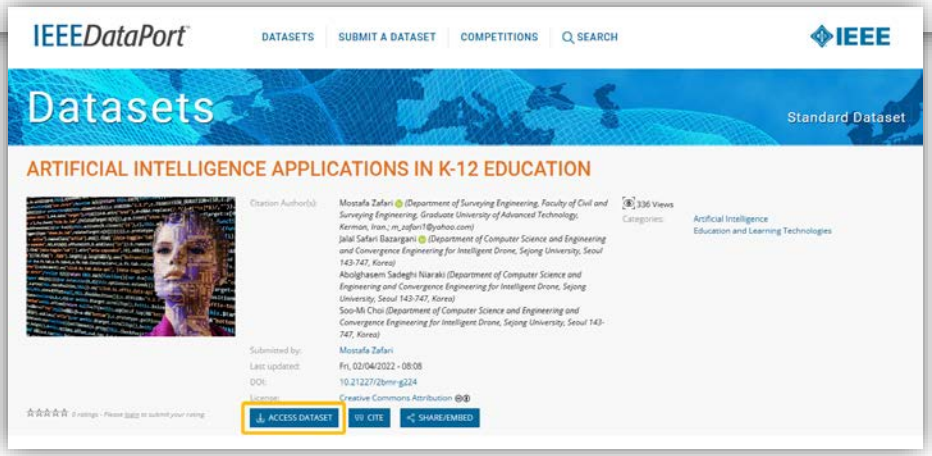

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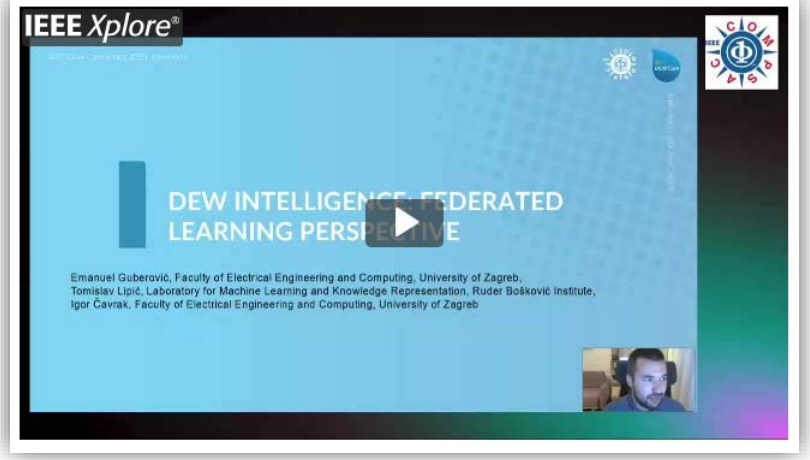

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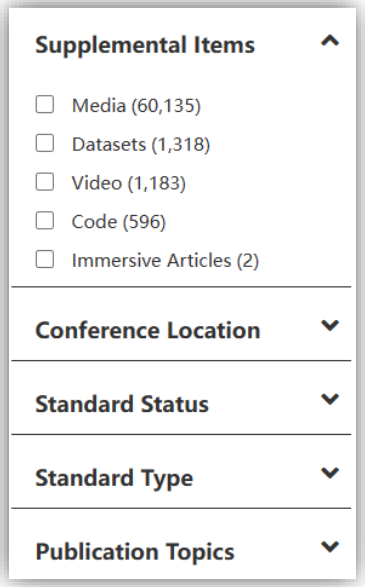

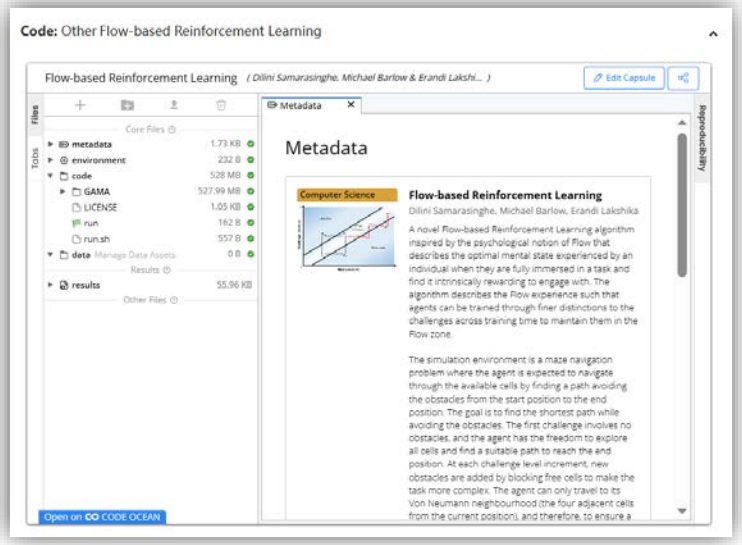

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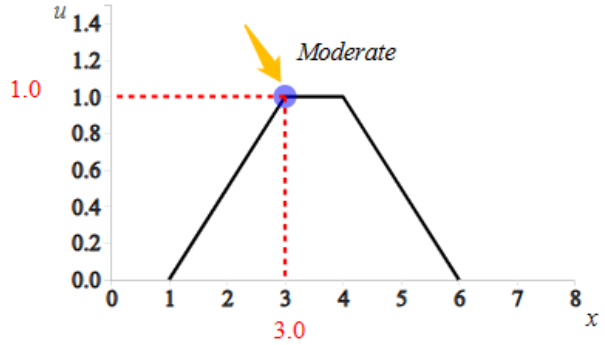

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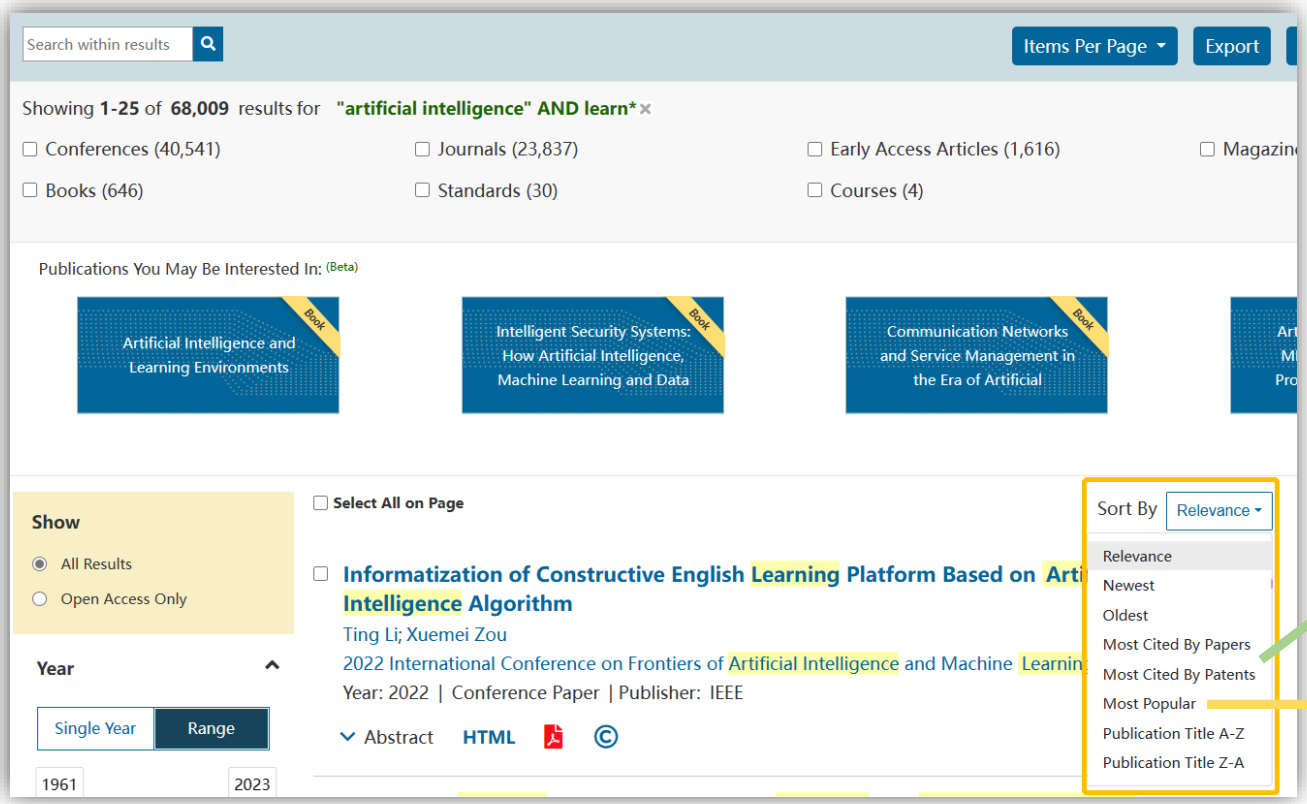

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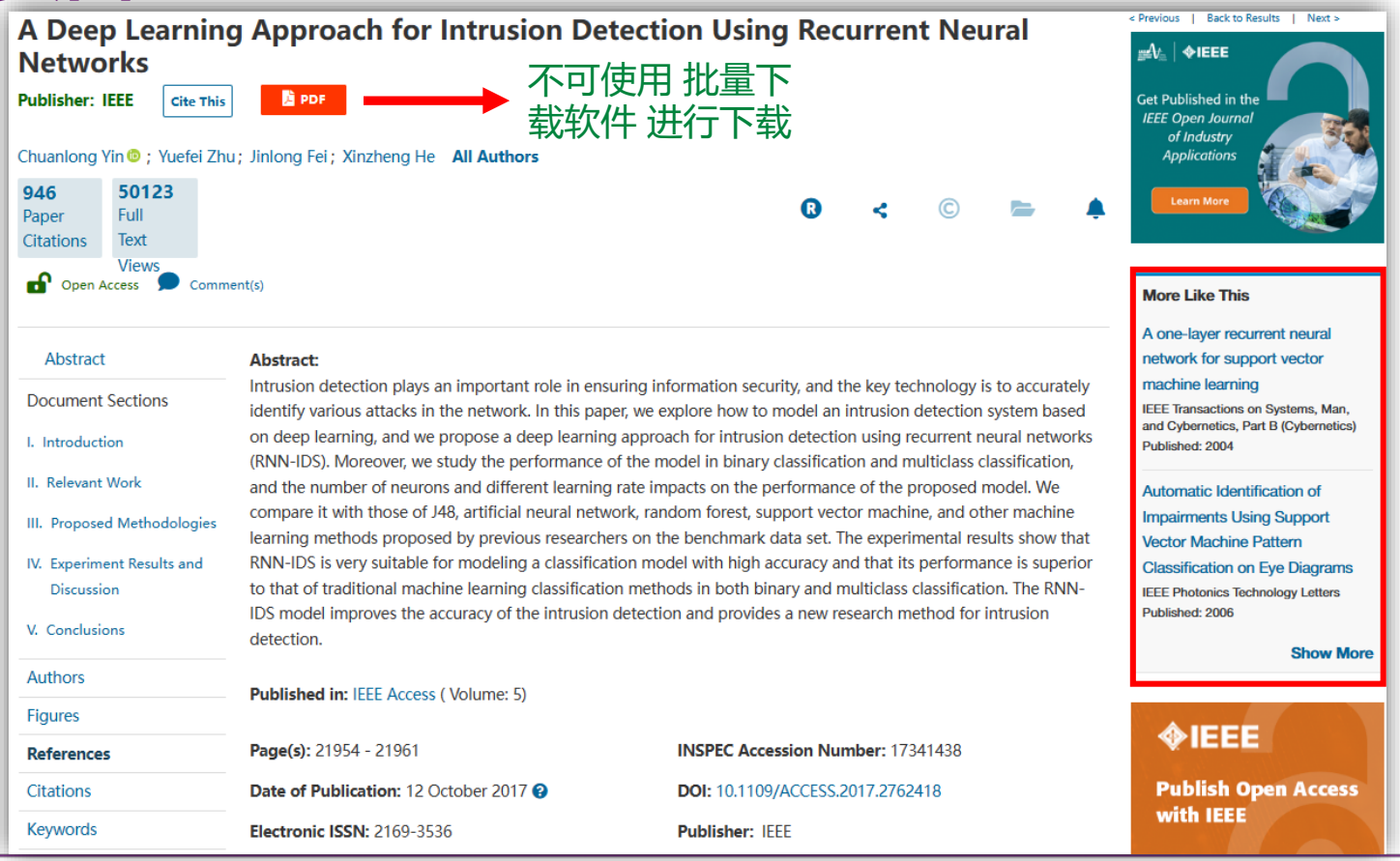

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Published in: IEEE Access (Volume: 5)

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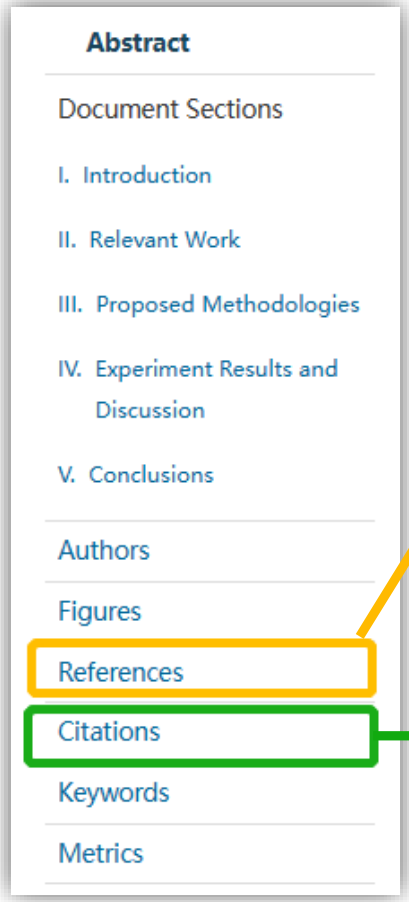

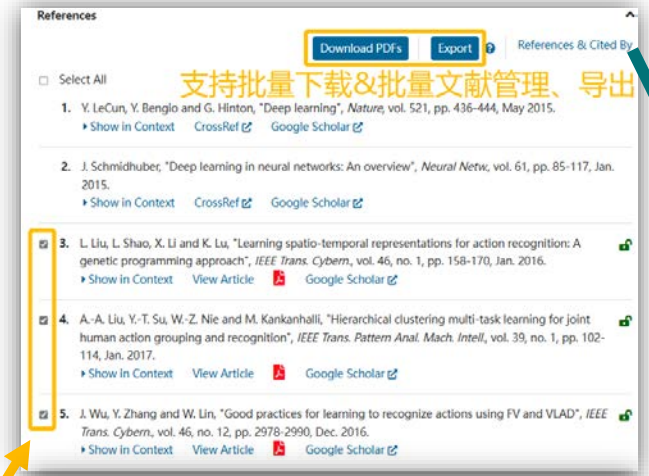

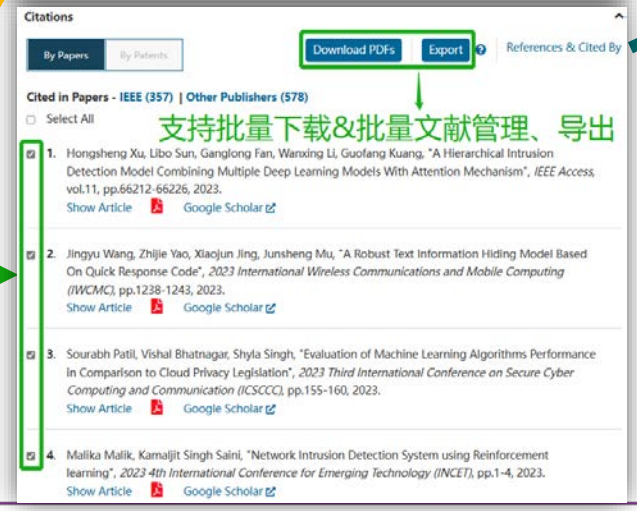

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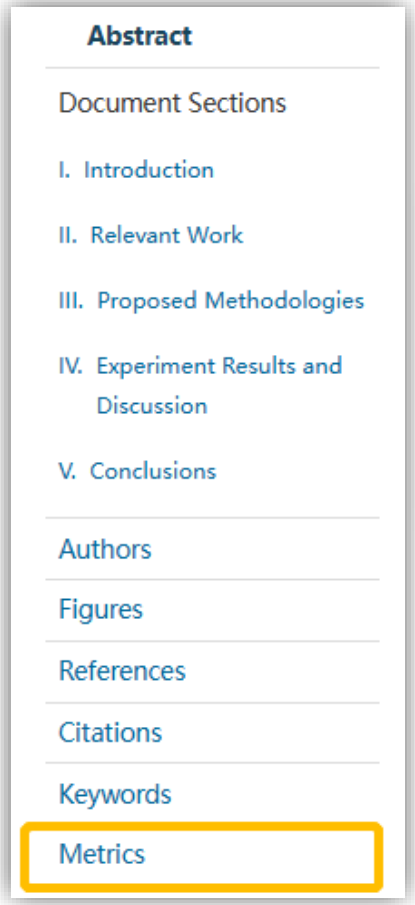

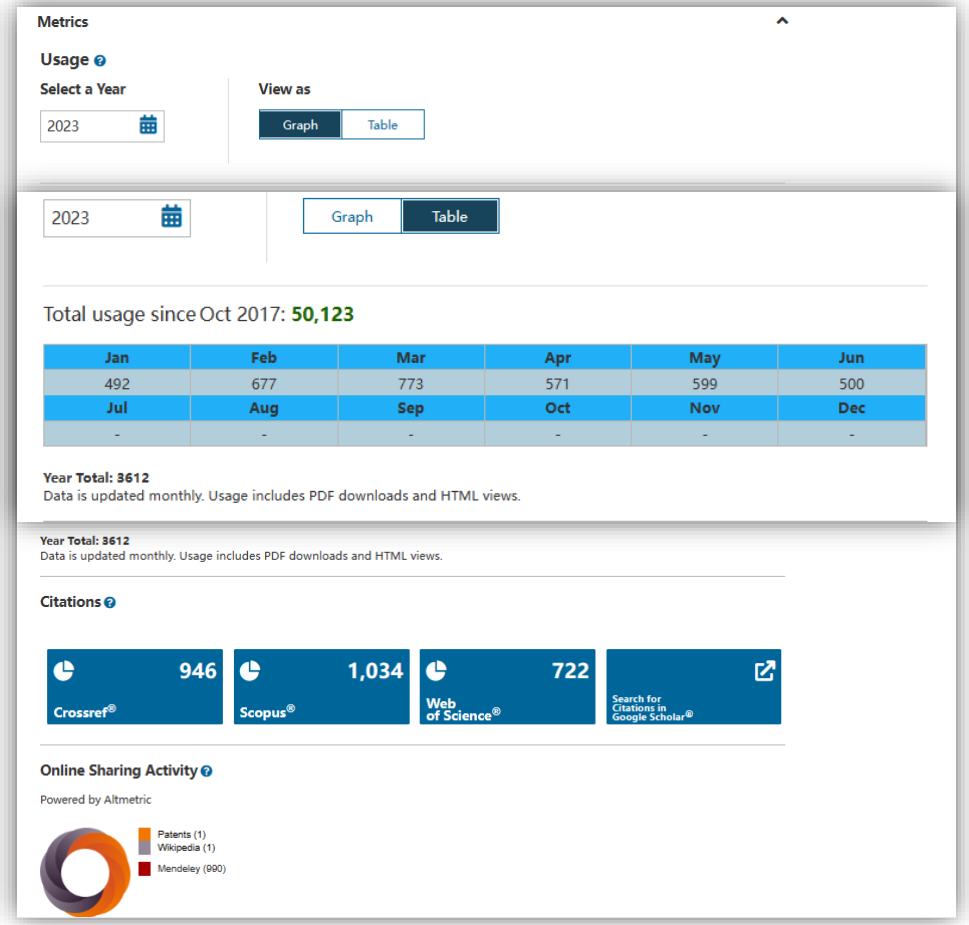

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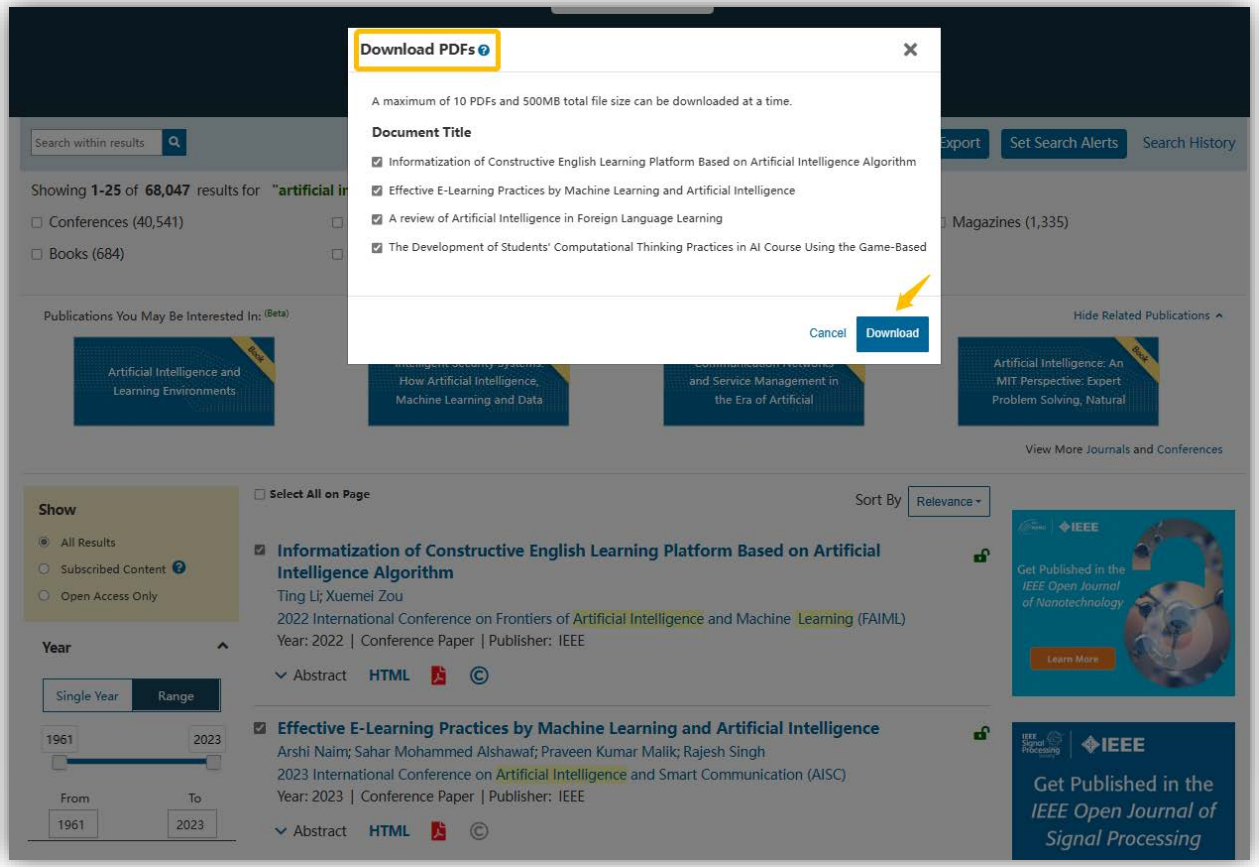

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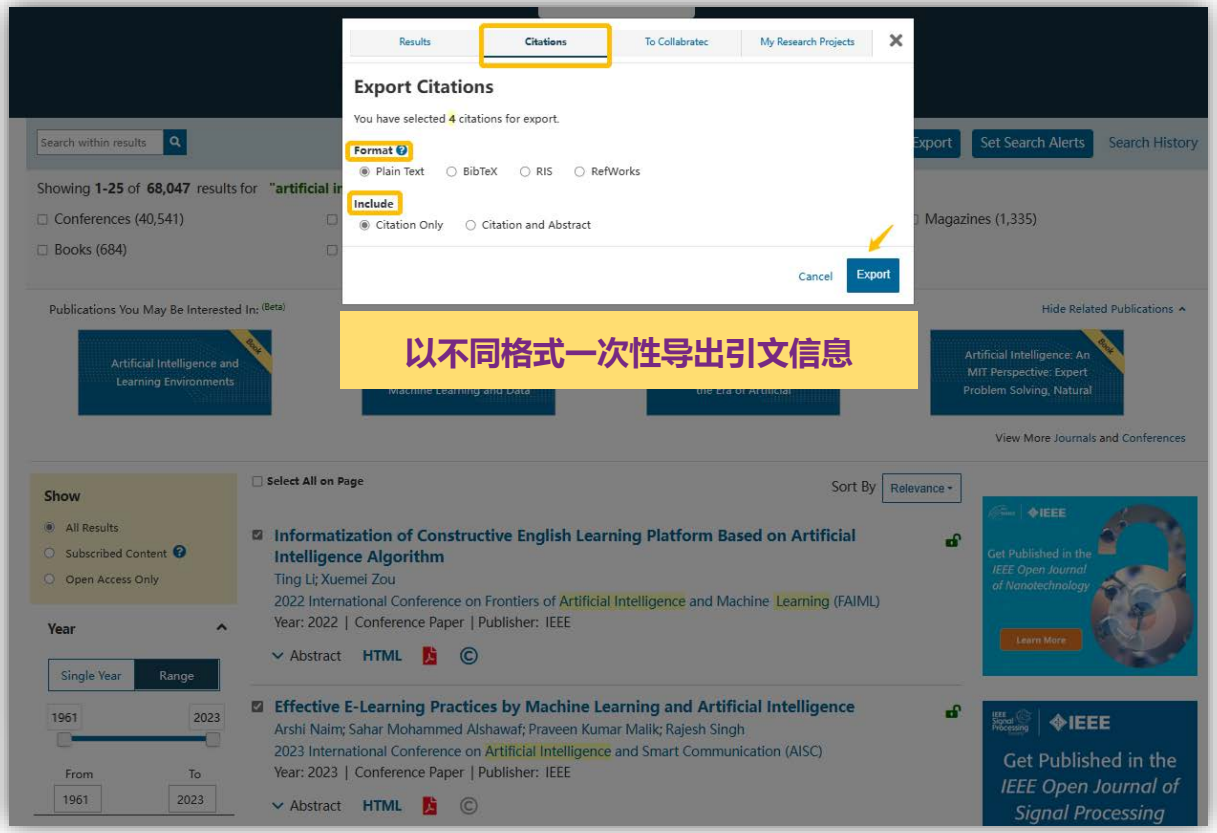
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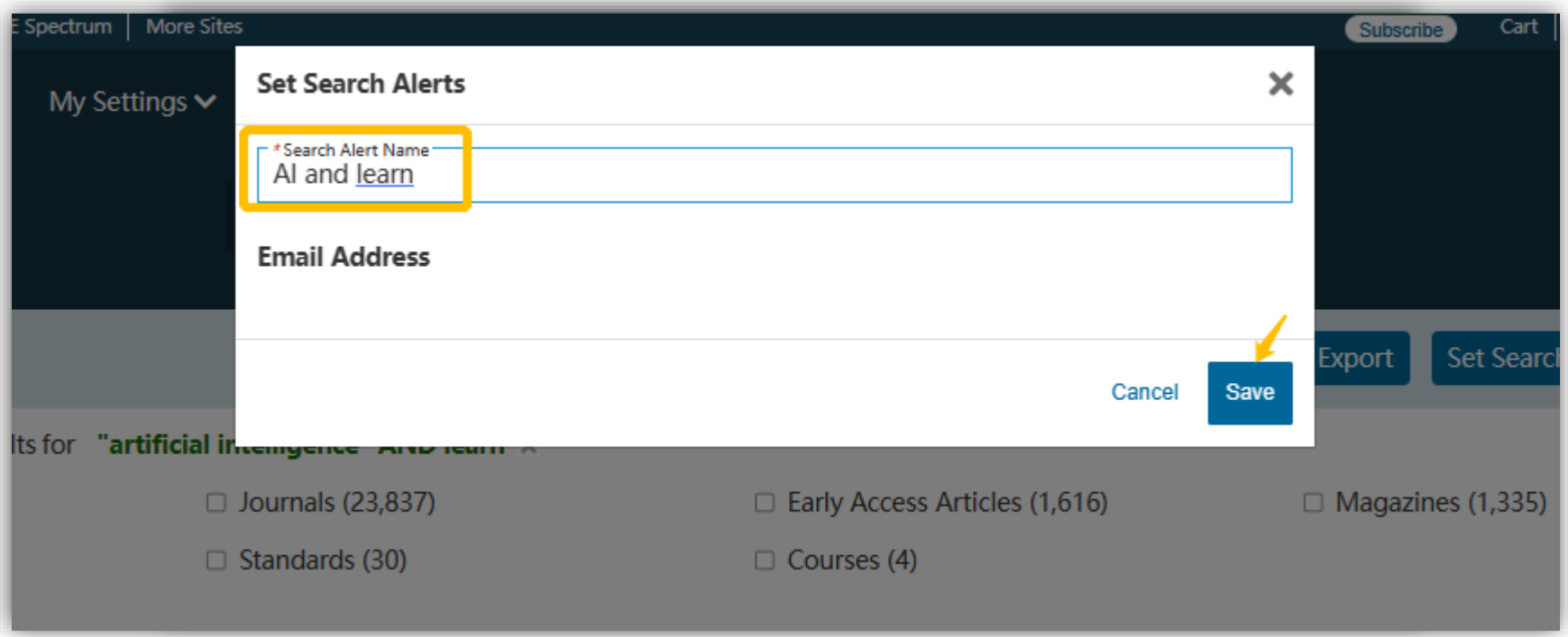

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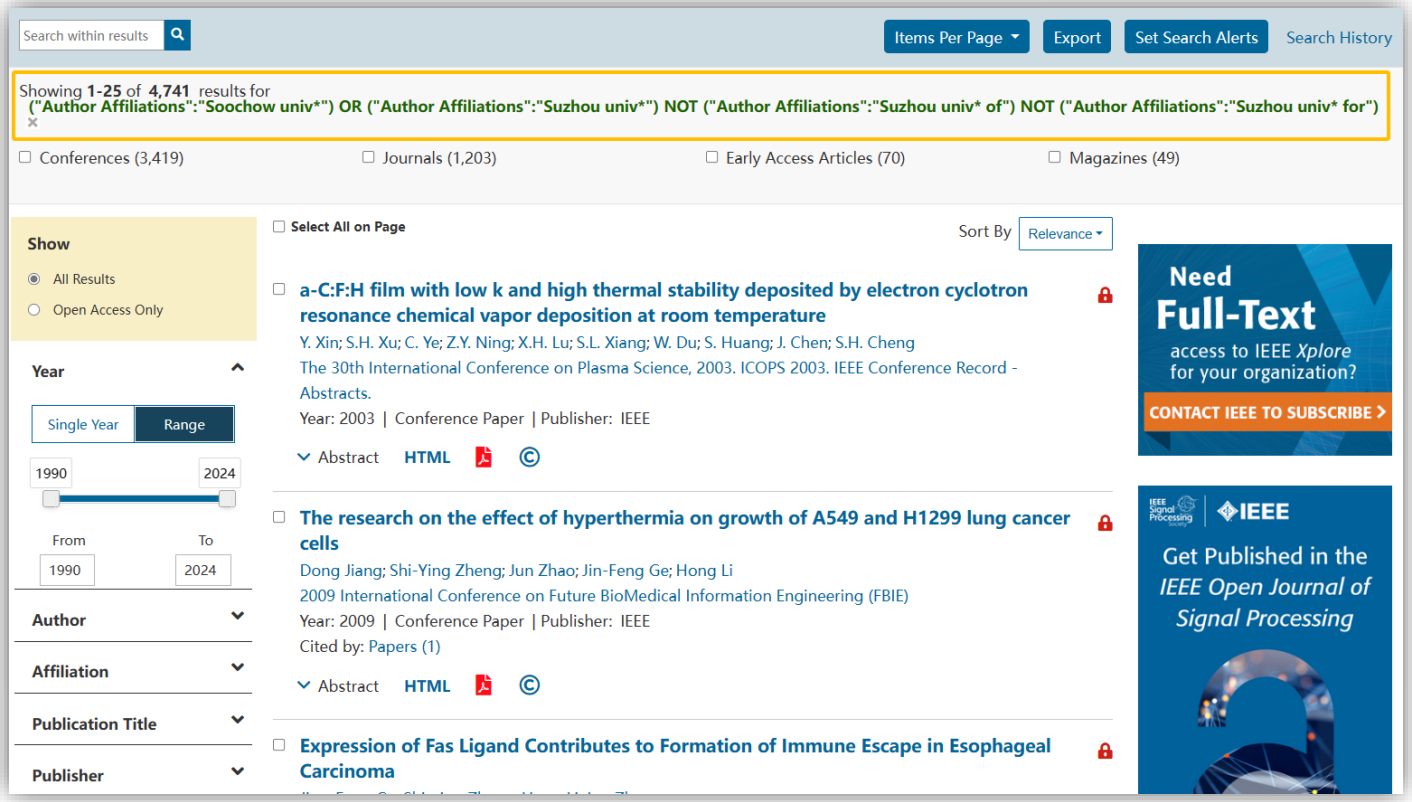

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Biography

Gangxiang Shen (Senior Member, IEEE) received the B.E. degree from Zhejiang University, Hangzhou, China, in 1997, the M.Sc. degree from Nanyang Technological University, Singapore, in 1999, and the Ph.D. degree from the University of Alberta, Edmonton, AB, Canada, in 2006.,He was also an Australian ARC Post-Doctoral Fellow with the University of Melbourne, Melbourne, VIC, Australia. He is currently the Dean and a Distinguished Professor with the School of Electronic and Information Engineering, Soochow University, Suzhou, China. Before he joined Soochow University, he was a Lead Engineer with Ciena, Linthicum, MD, USA. He has authored and coauthored more than 200 peer-reviewed technical articles. His research interests include spectrum effi... Show More

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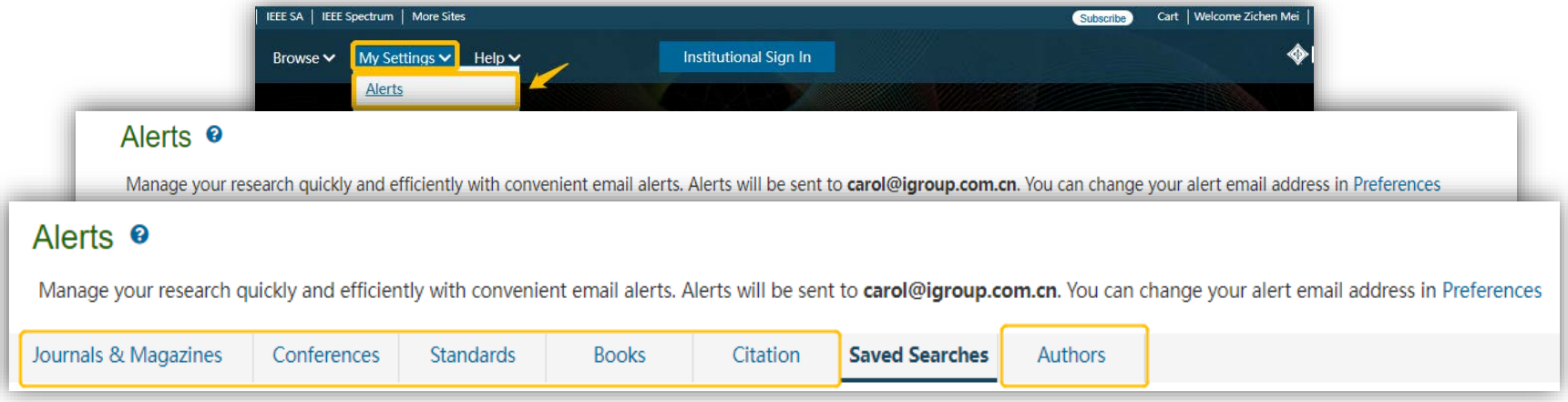

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A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks
Publisher: IEEE
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Chuanlong Yin ; Yuefei Zhu ; Jinlong Fei ; Xinzheng He All Authors
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Abstract:
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
INSPEC Accession Number: 17341438
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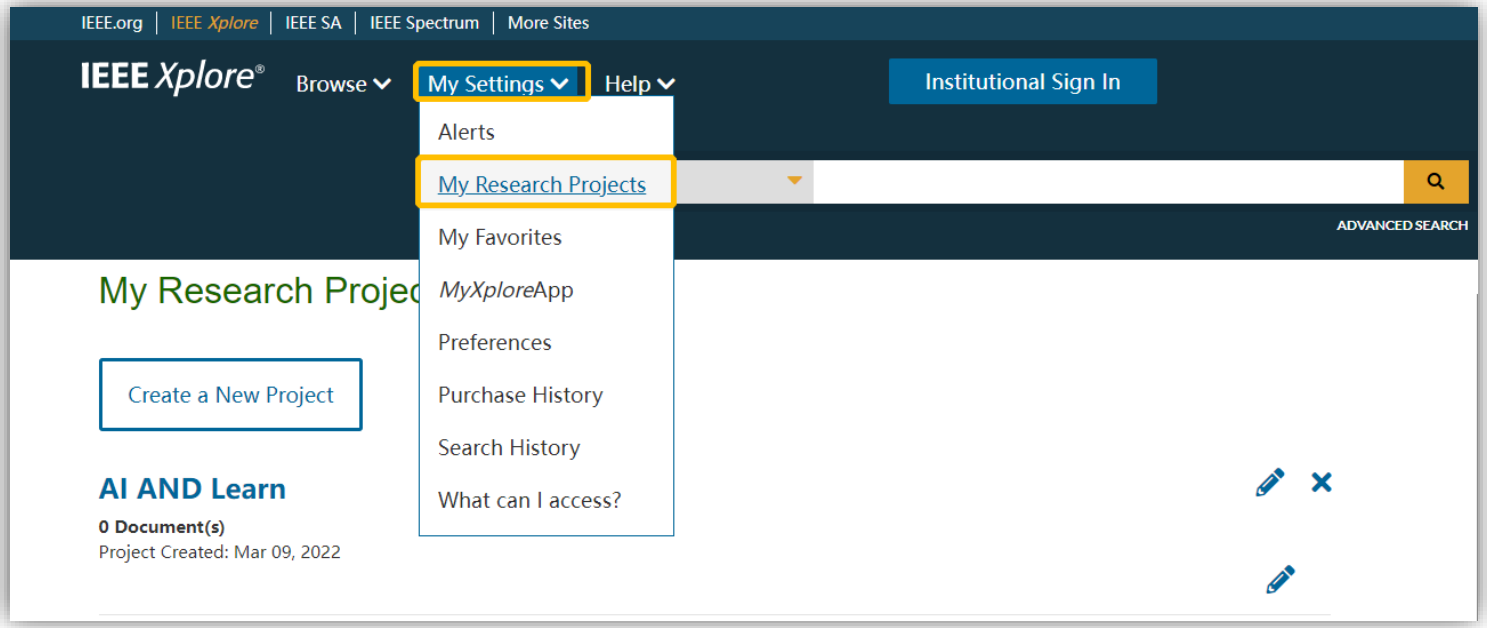

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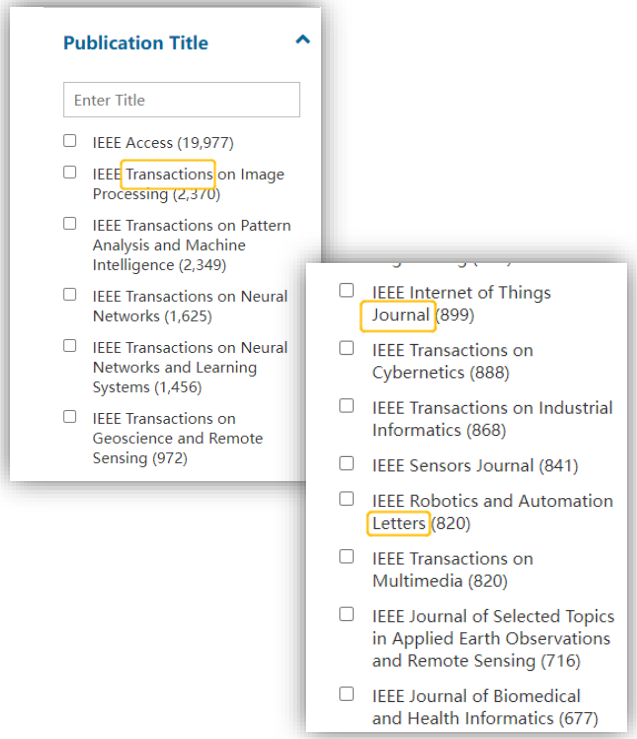

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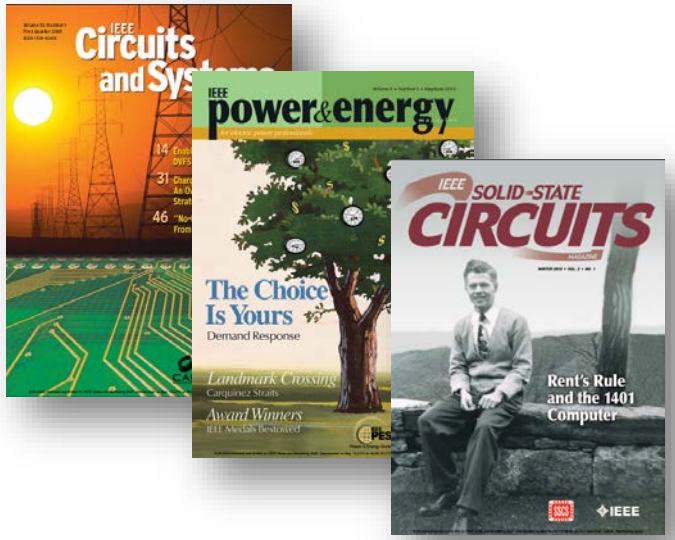

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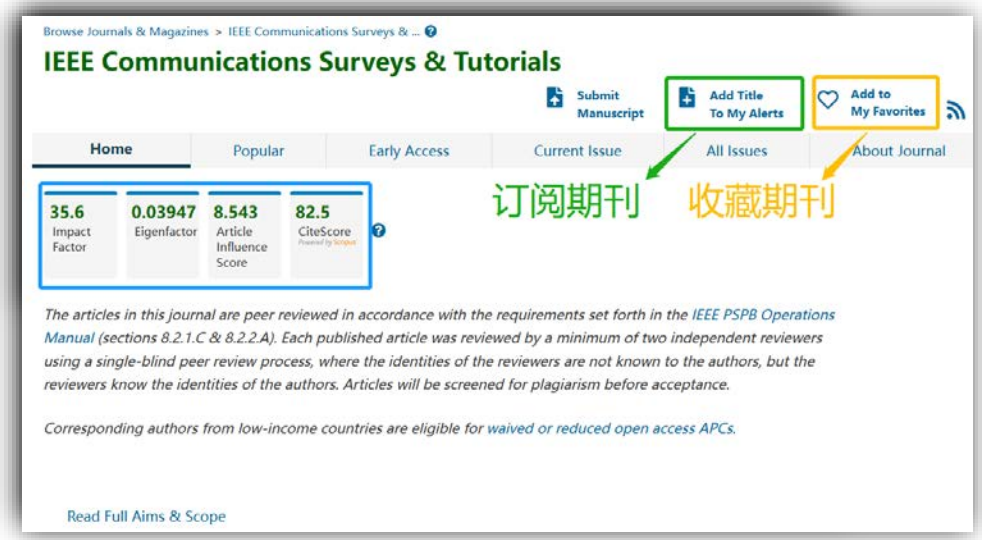
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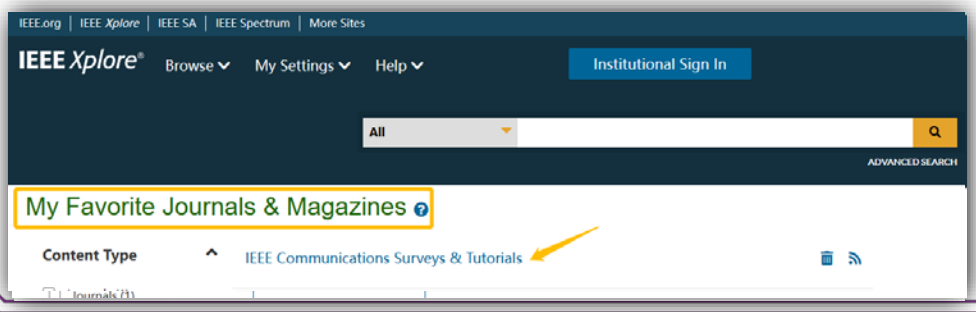
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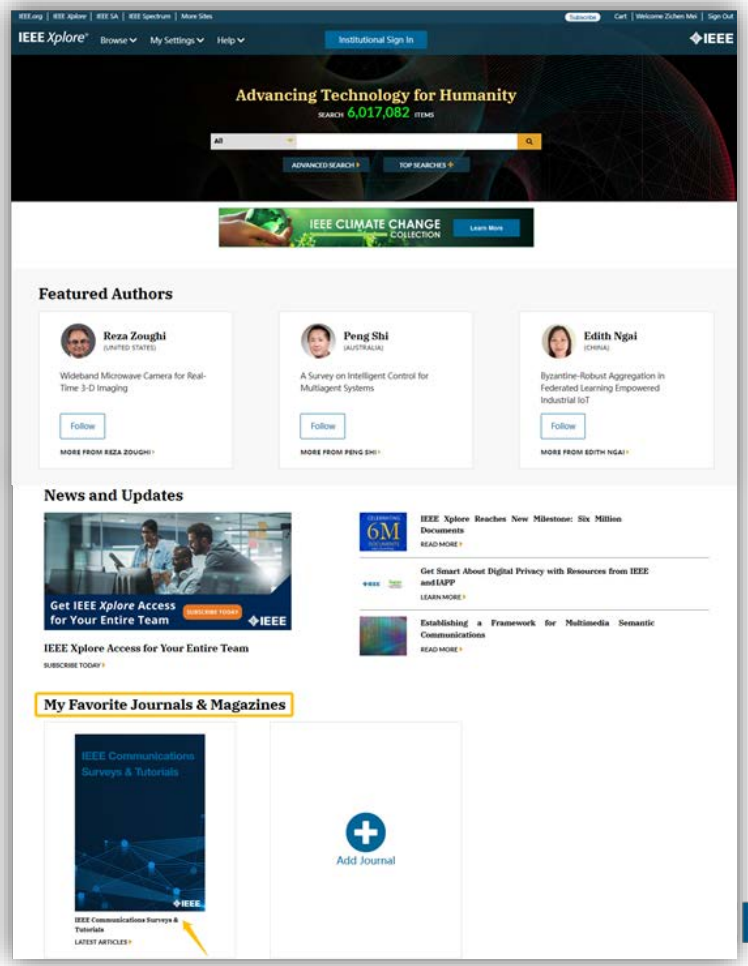
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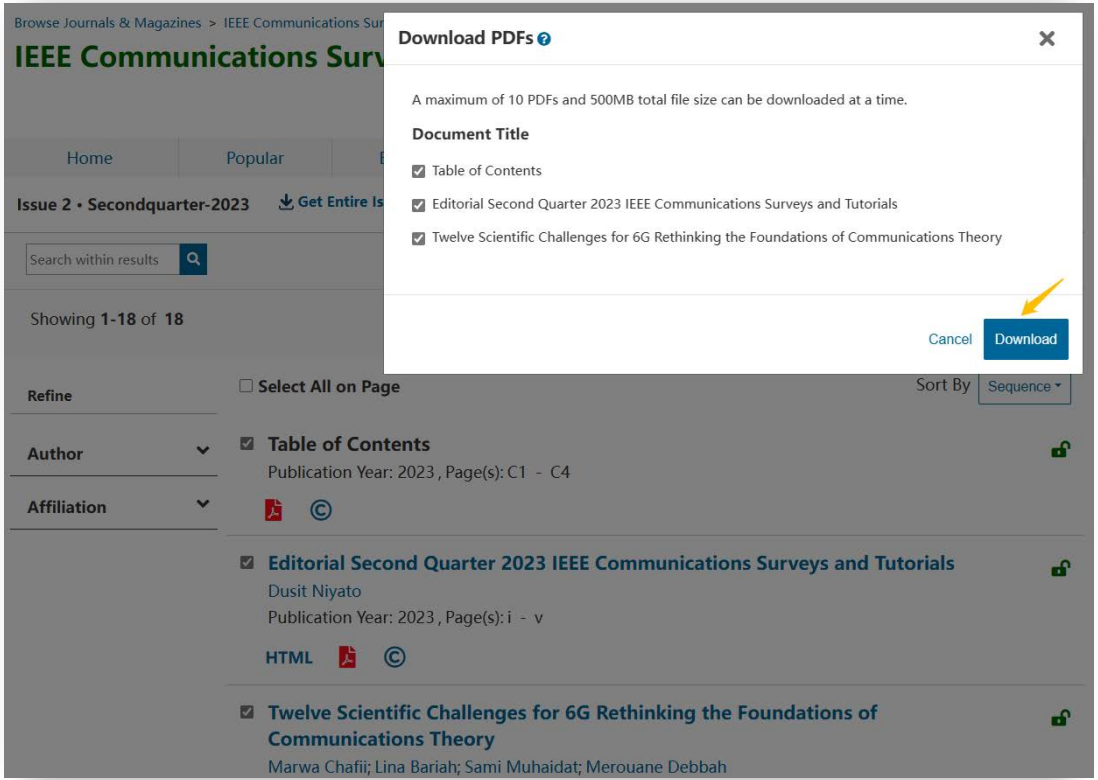
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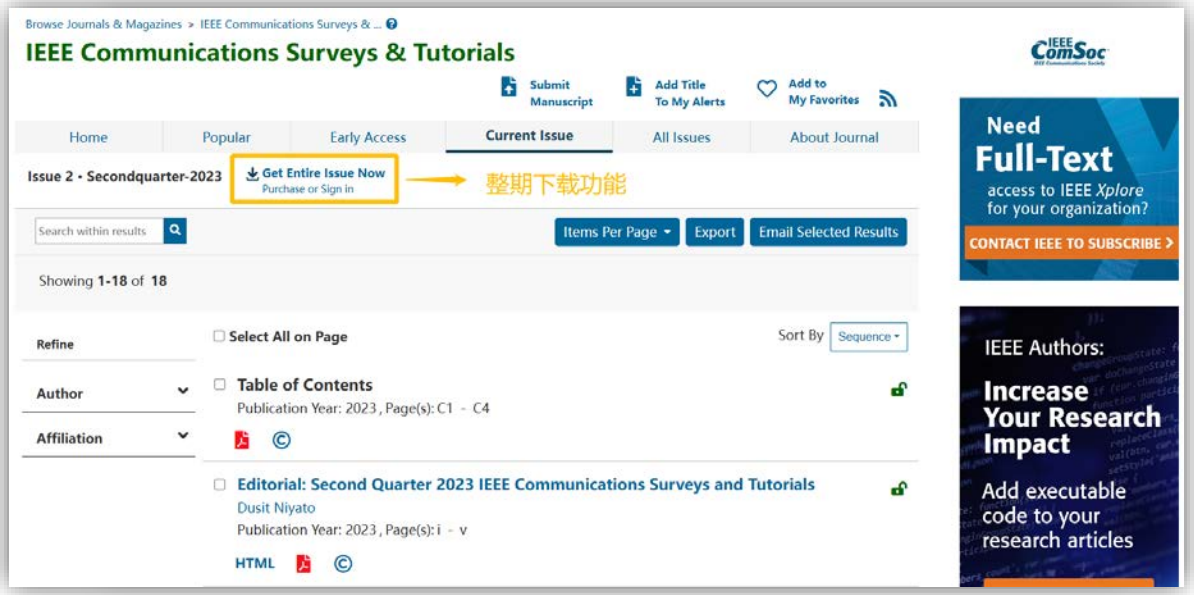
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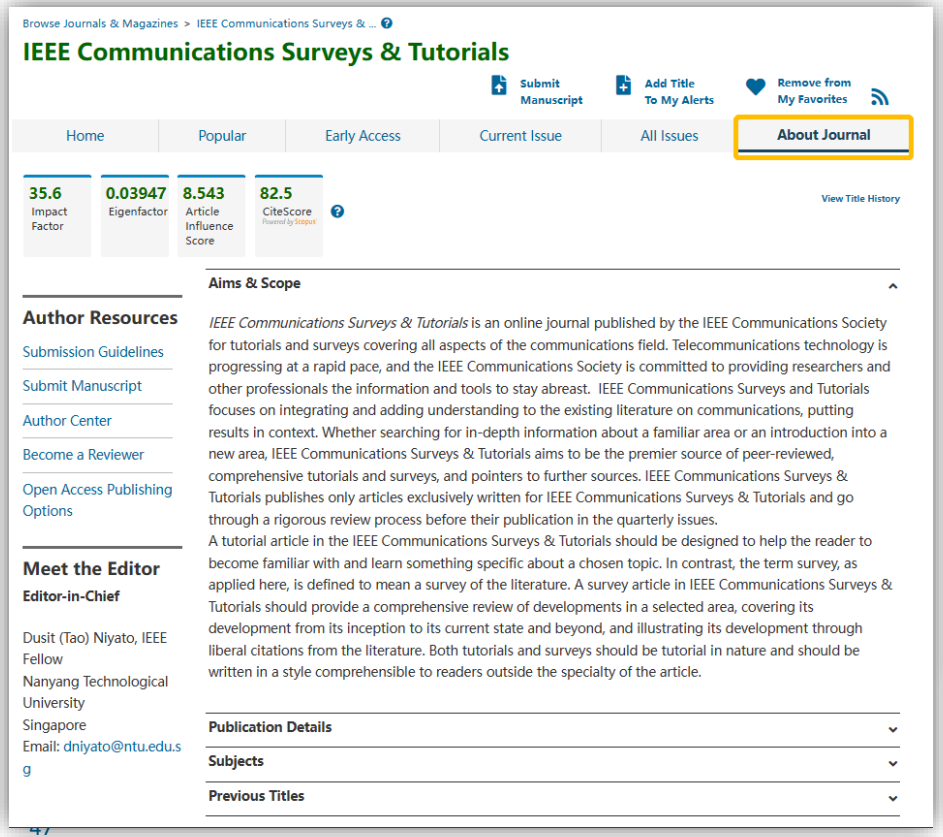

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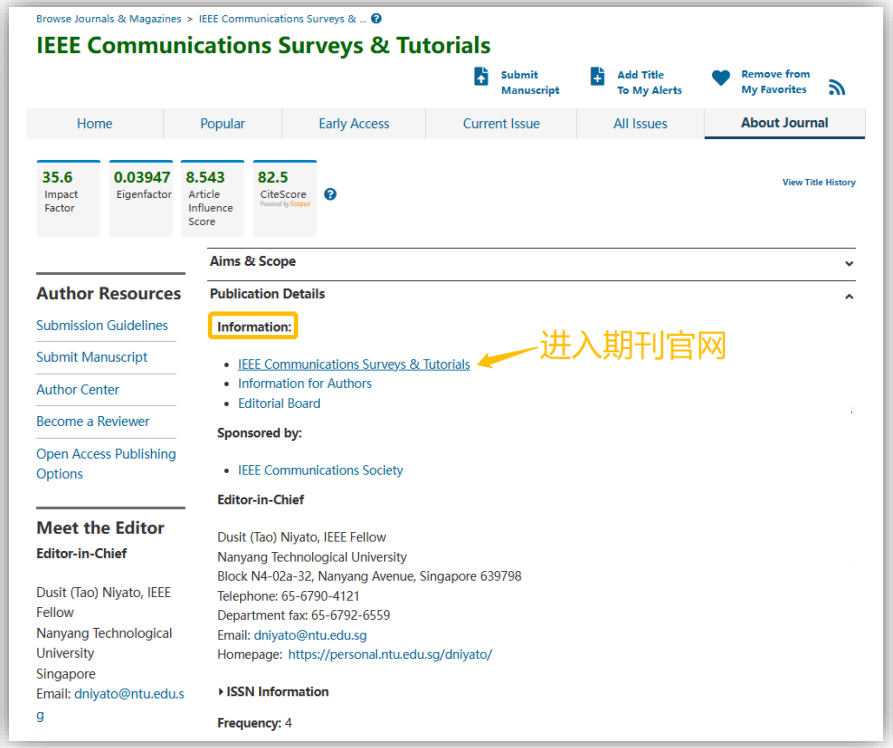

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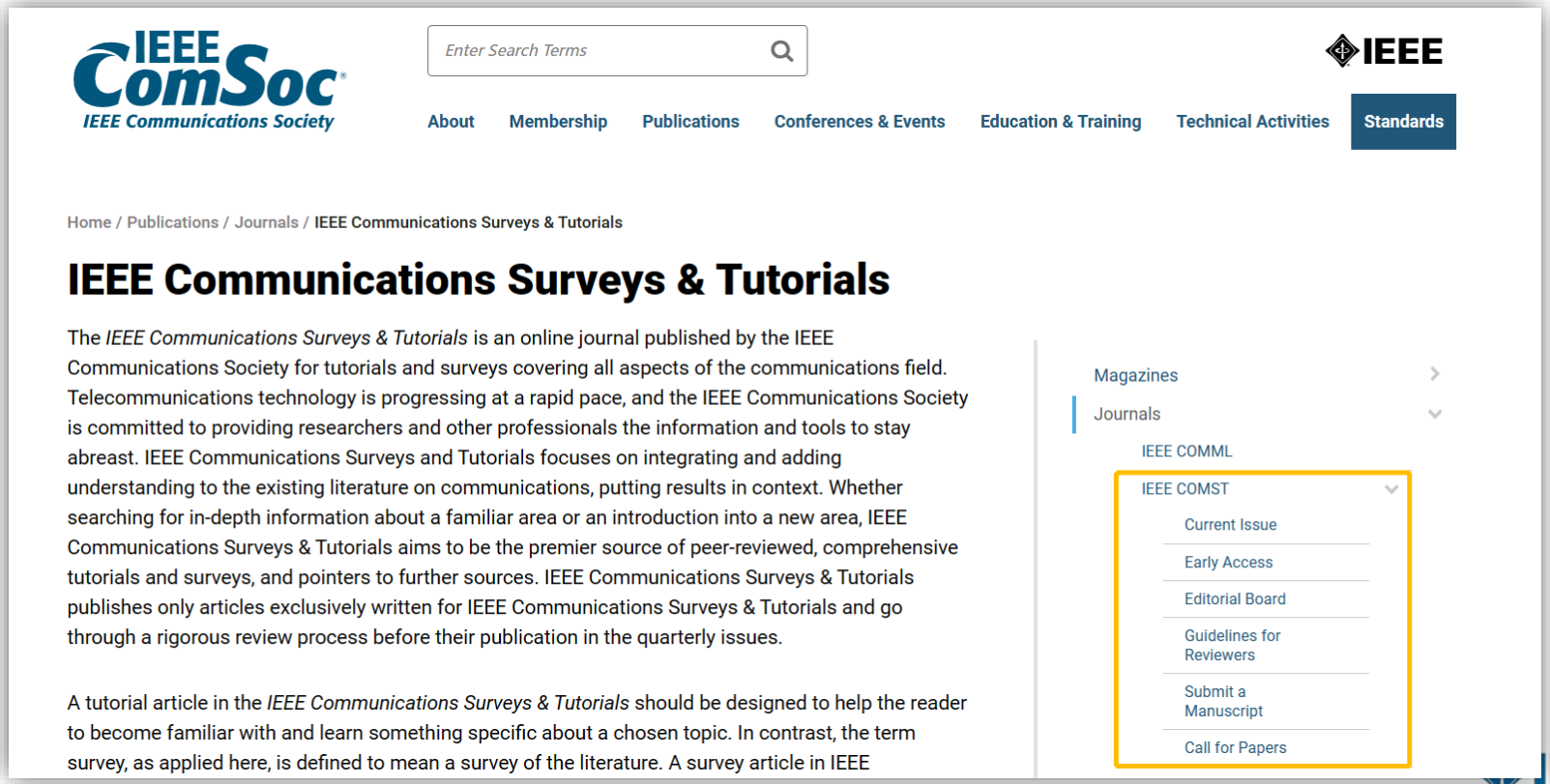
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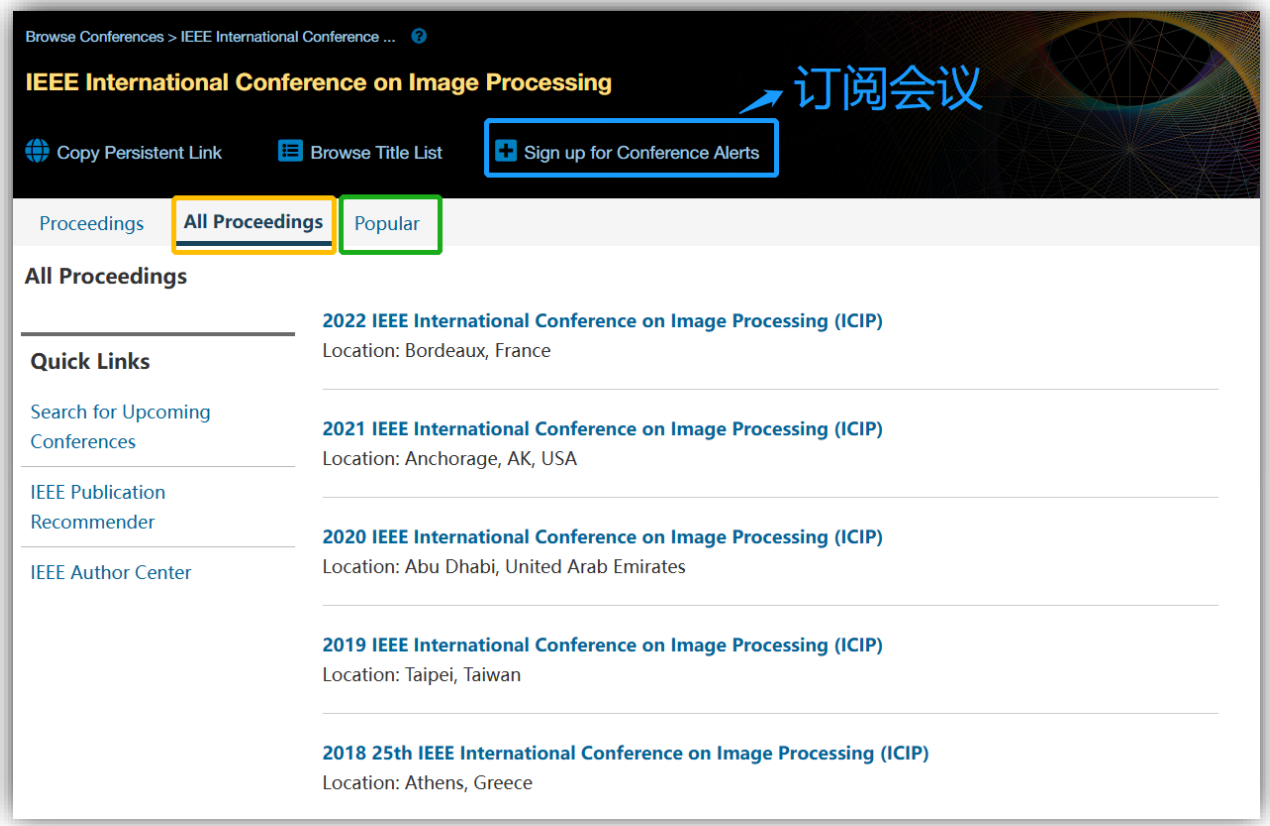
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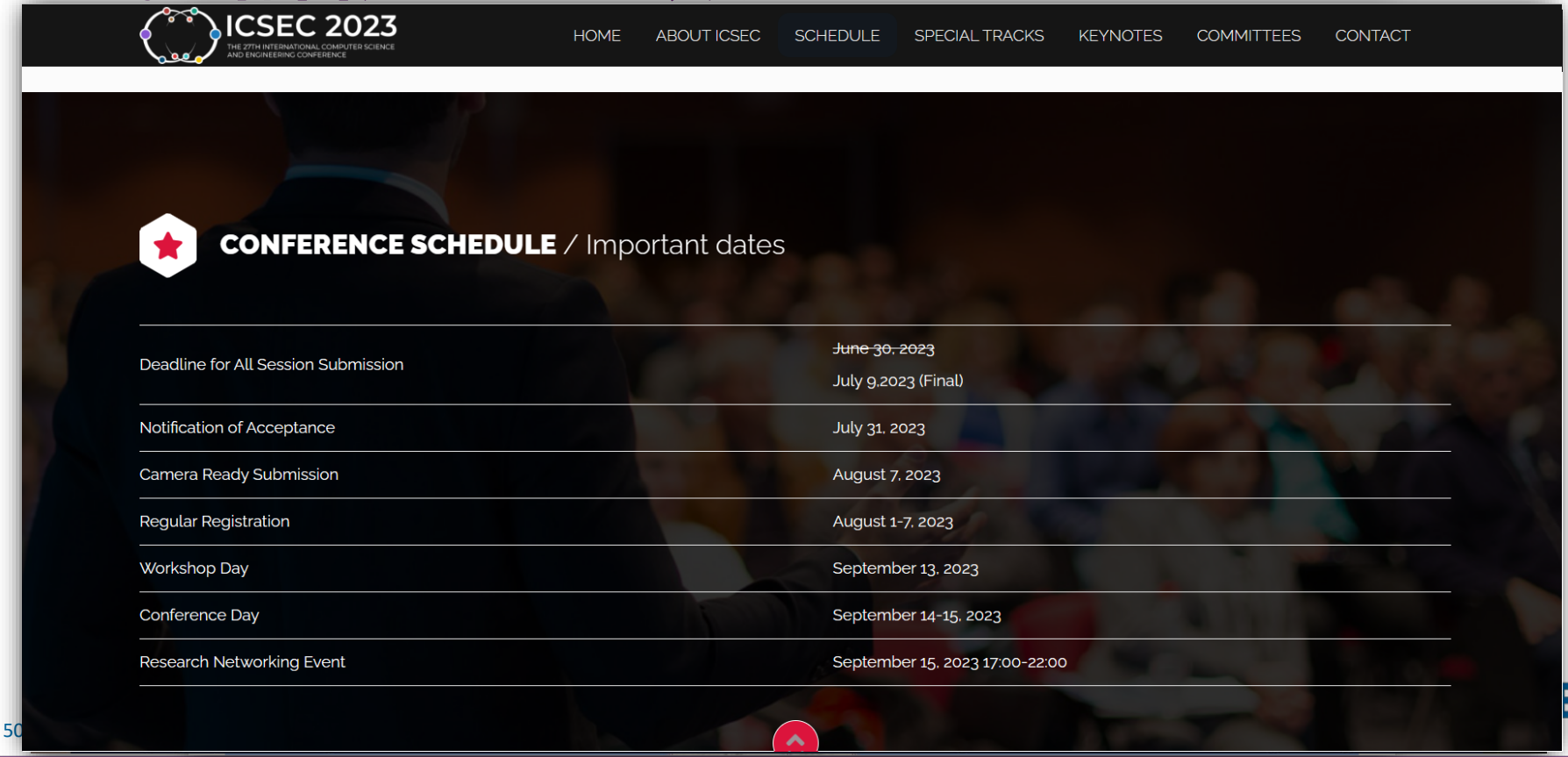

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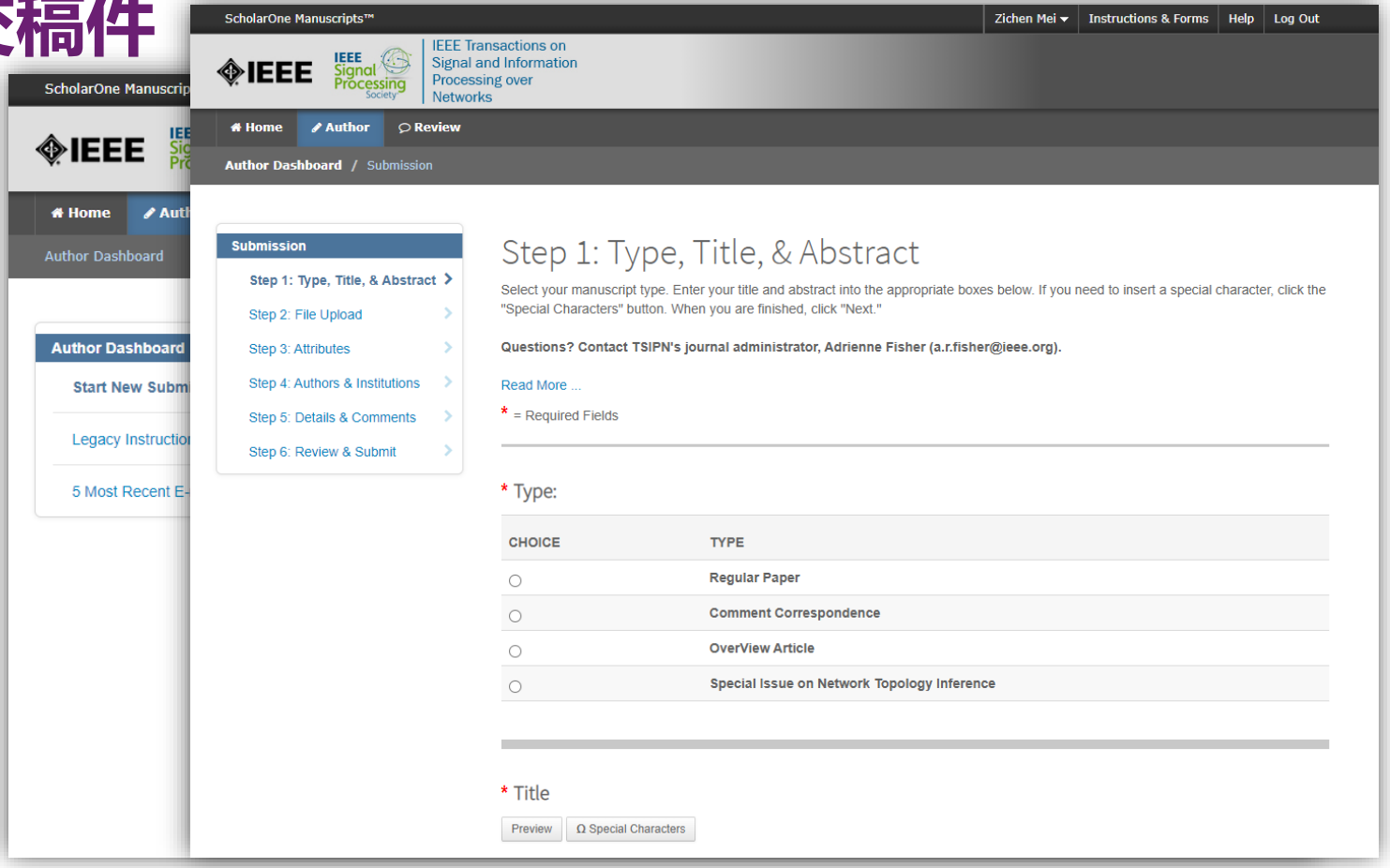
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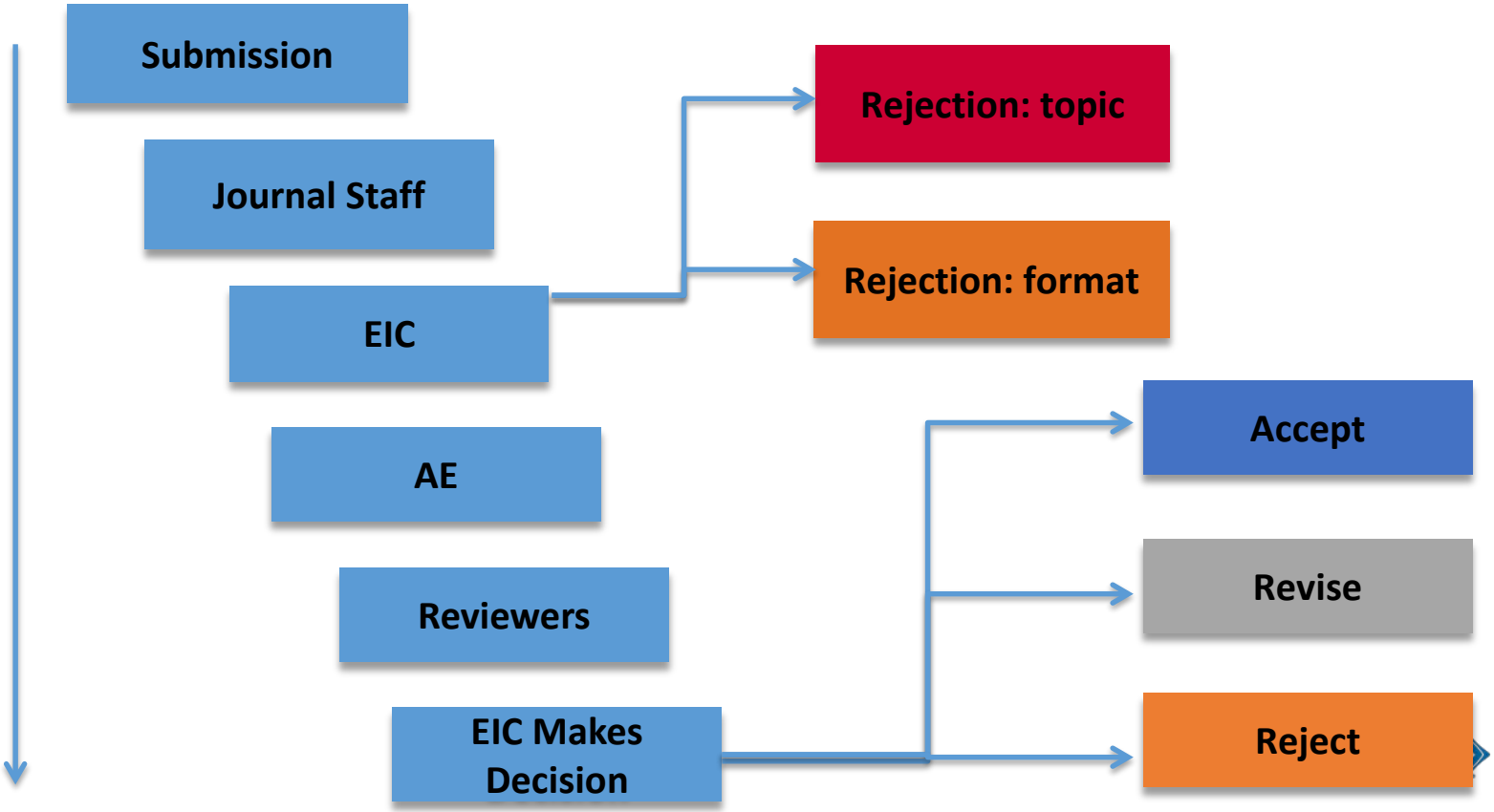

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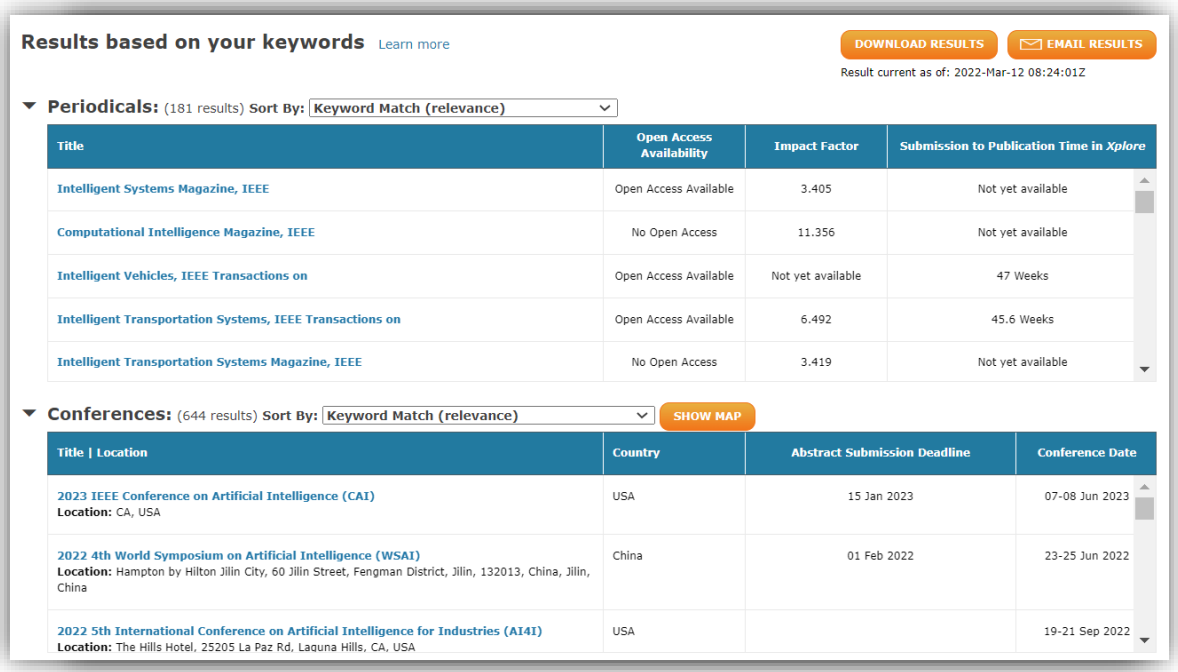

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2022 5th International Conference on Artificial Intelligence for Industries (AI4I) **Location:** The Hills Hotel, 25205 La Paz Rd, Laguna Hills, CA, USA	USA		19-21 Sep 2022

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