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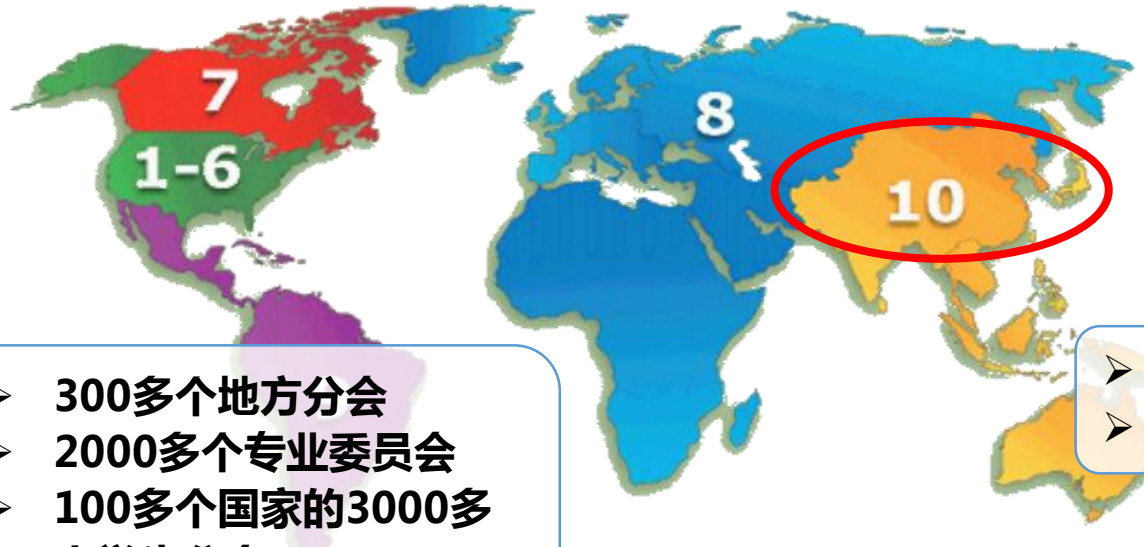

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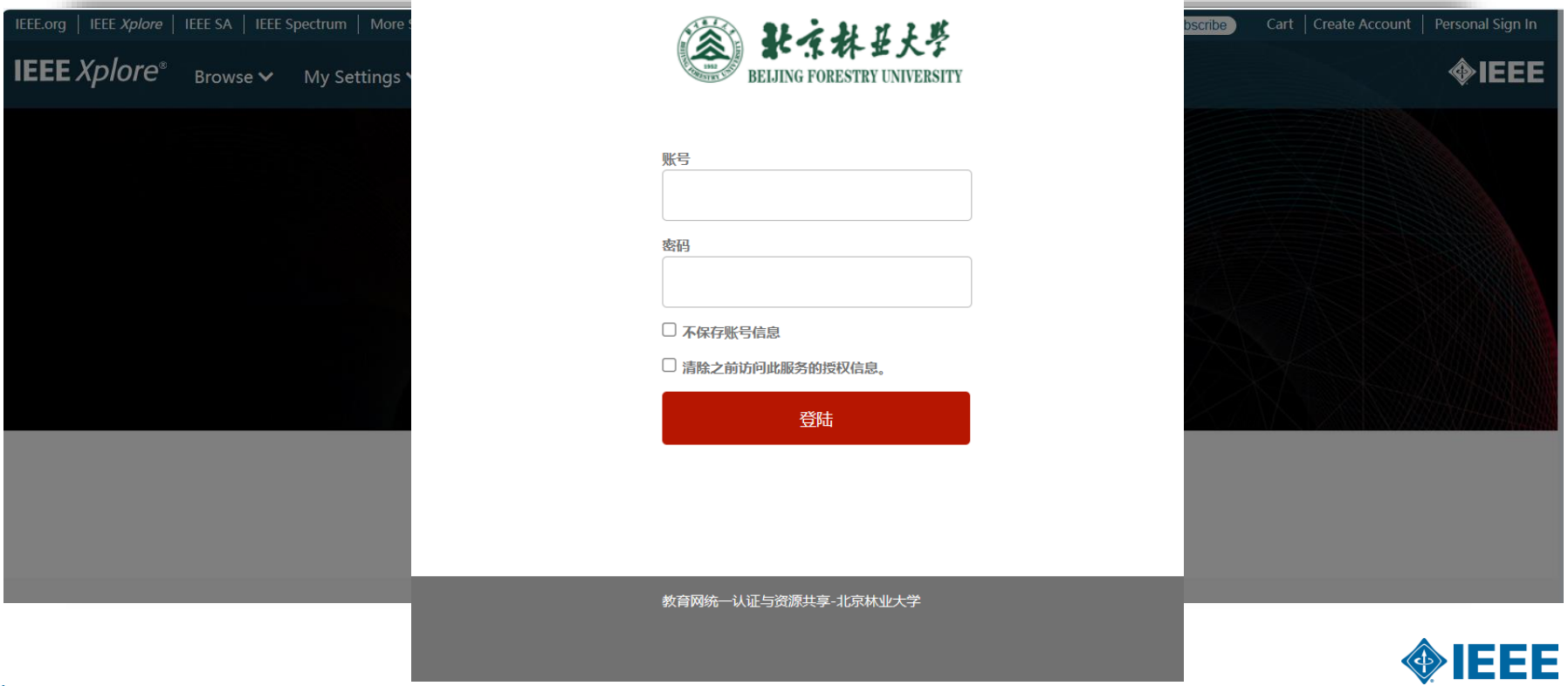

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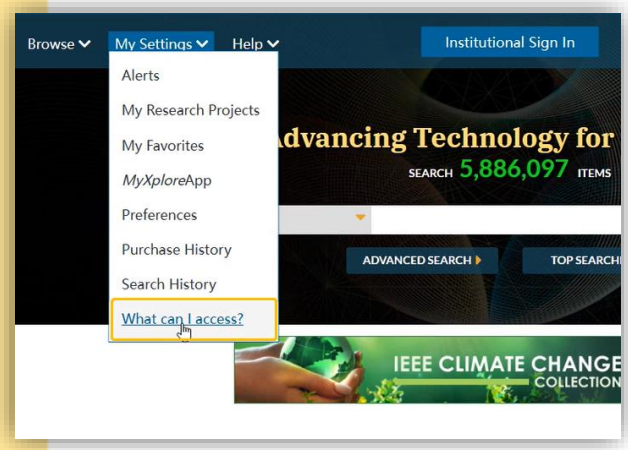

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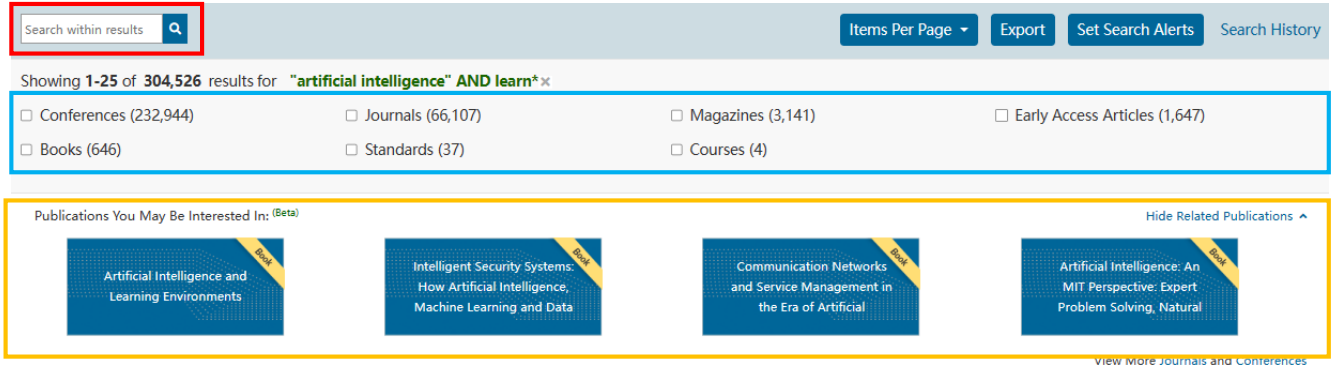

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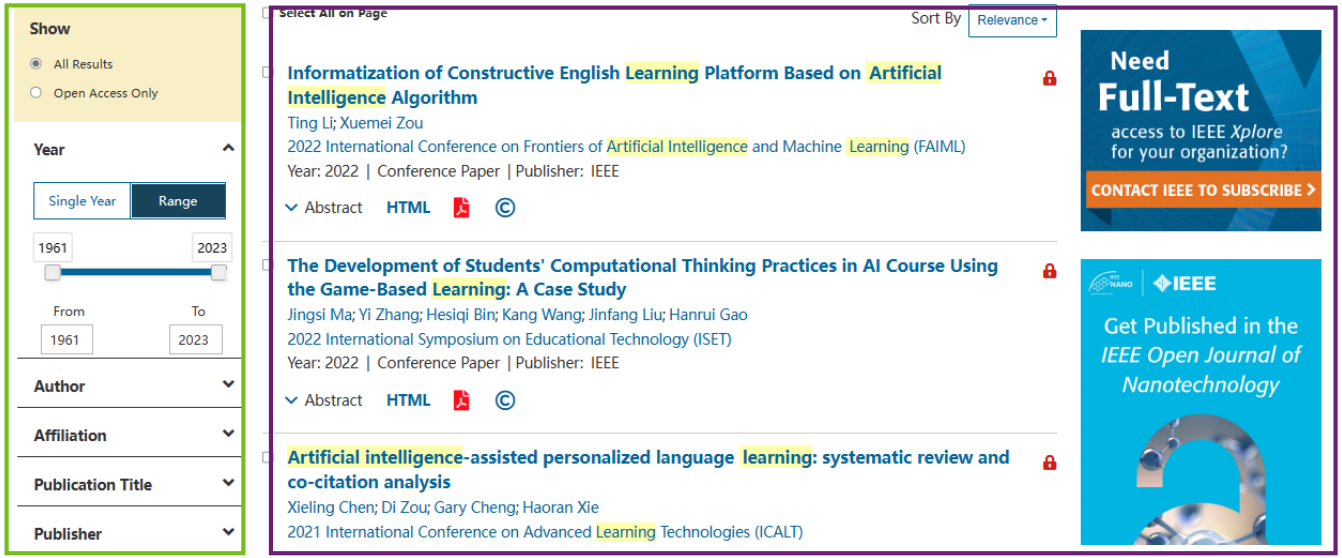

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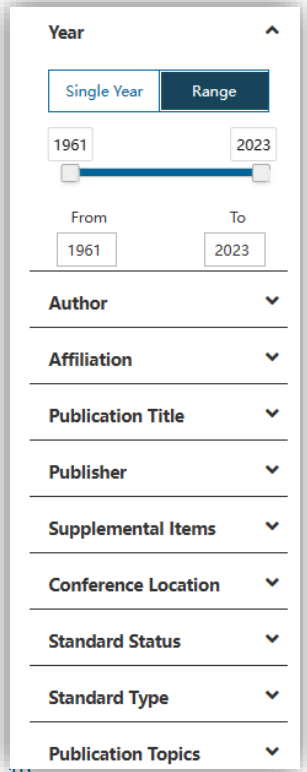
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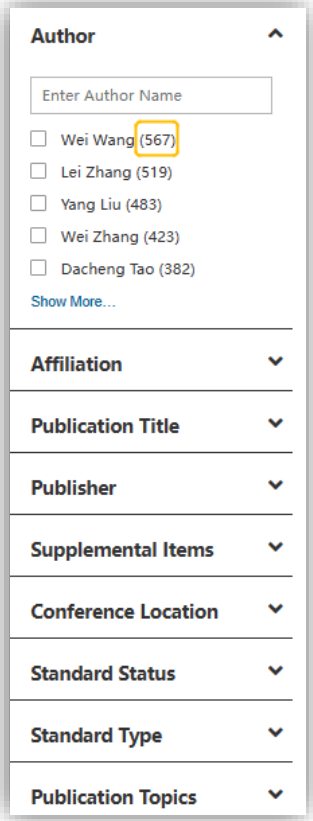
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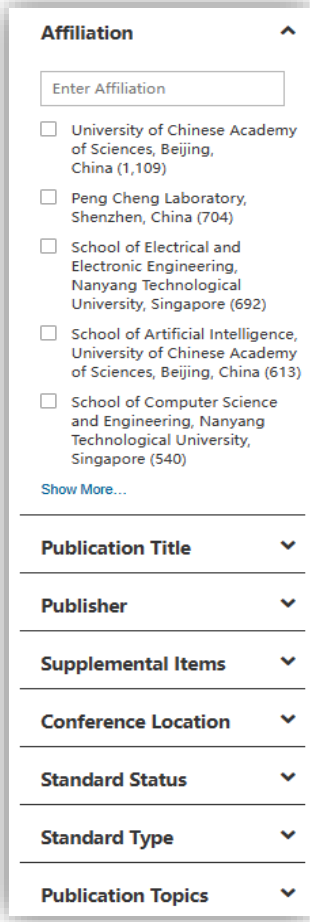
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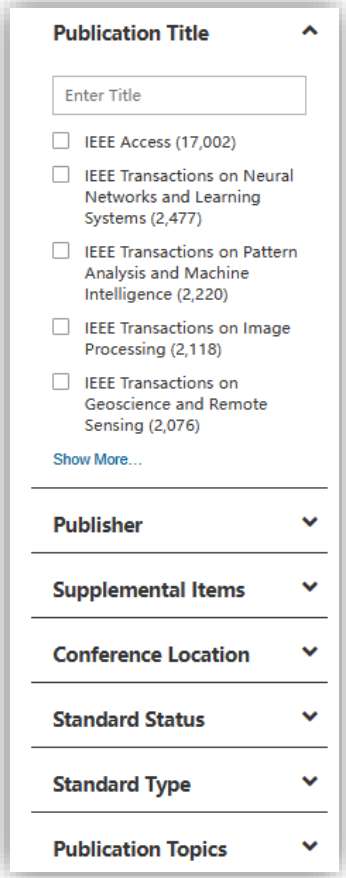
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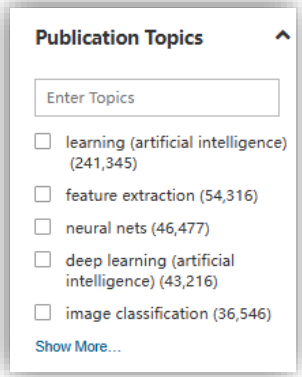
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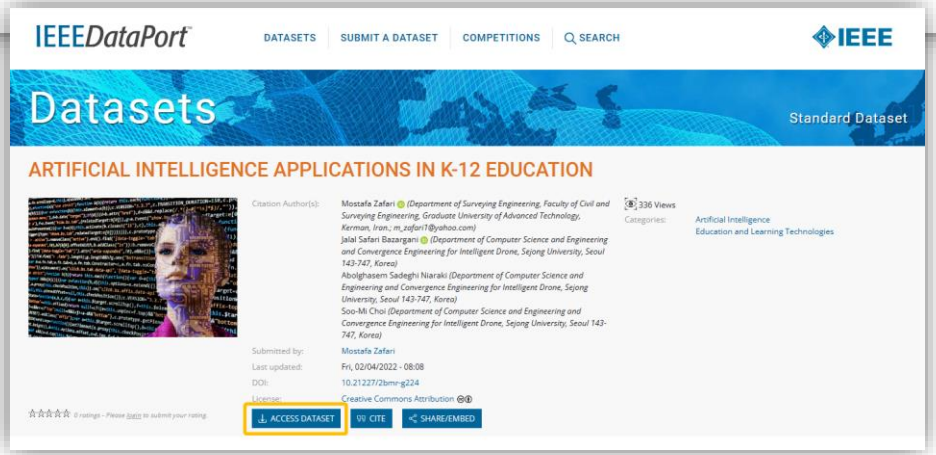

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Emanuel Guberović; Tomislav Lipić; Igor Čavrak

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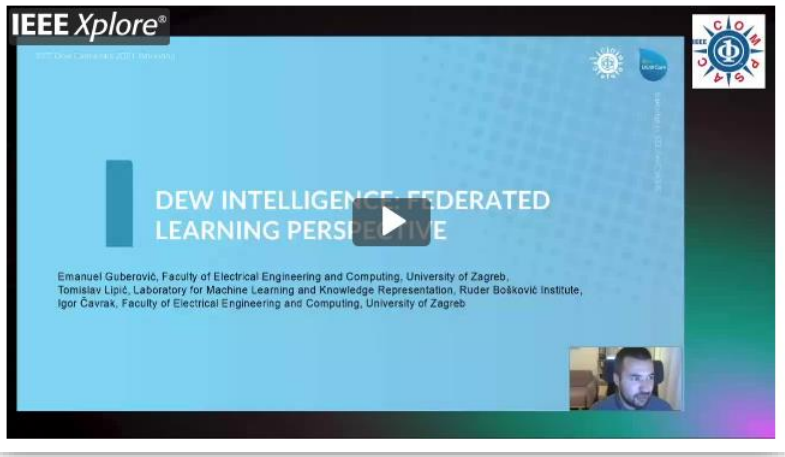

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Dilini Samarasinghe; Michael Barlow; Erandi Lakshika

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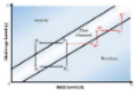

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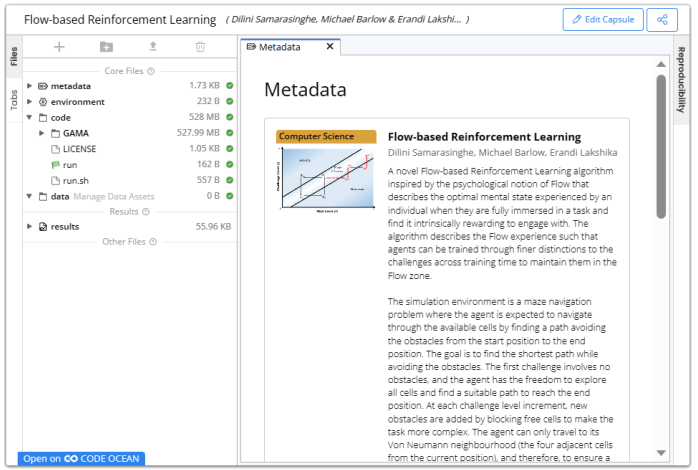

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Dongrui Wu; Ruimin Peng; Jerry M. Mendel

IEEE Computational Intelligence Magazine

Year: 2023 | Volume: 18, Issue: 1 | Magazine Article | Publisher: IEEE

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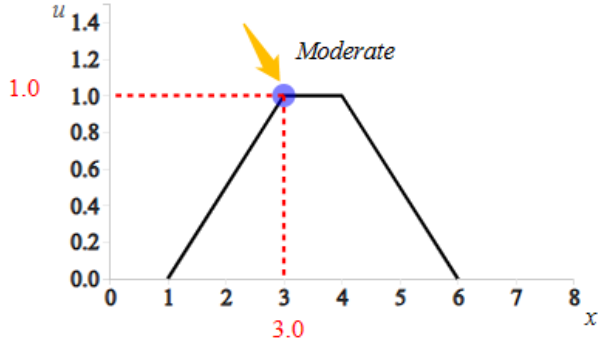

Figure 2: An example of a T1 fuzzy set.

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A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks

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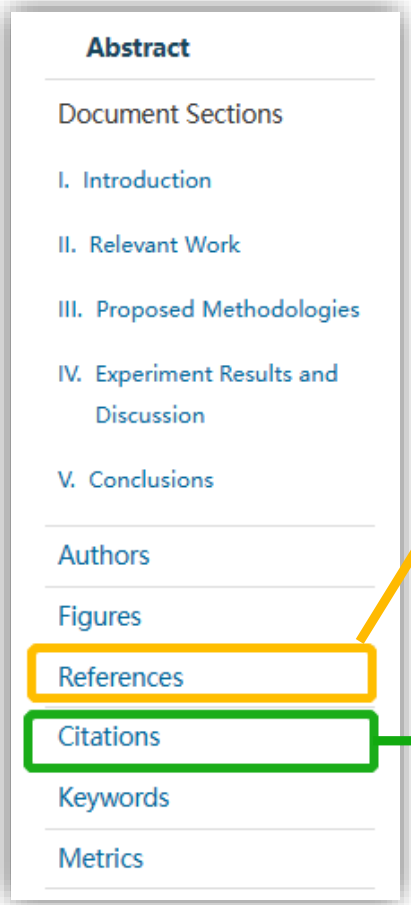

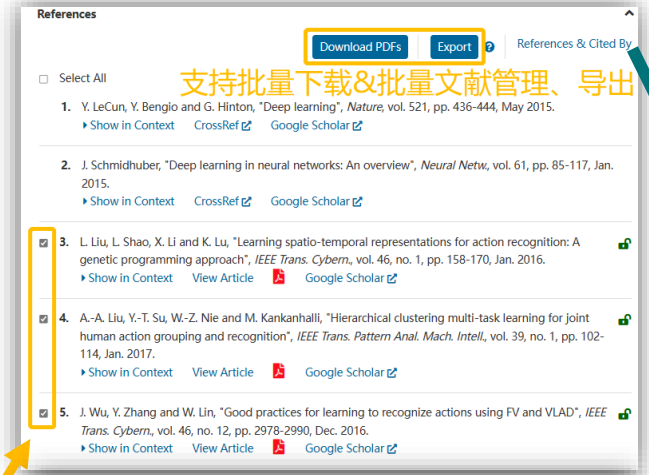

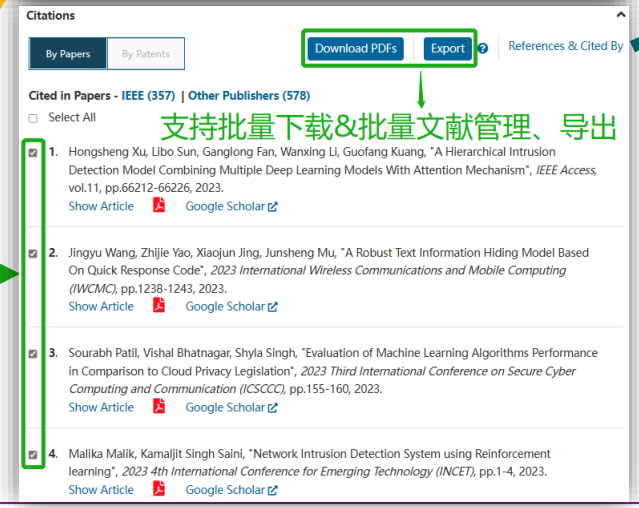

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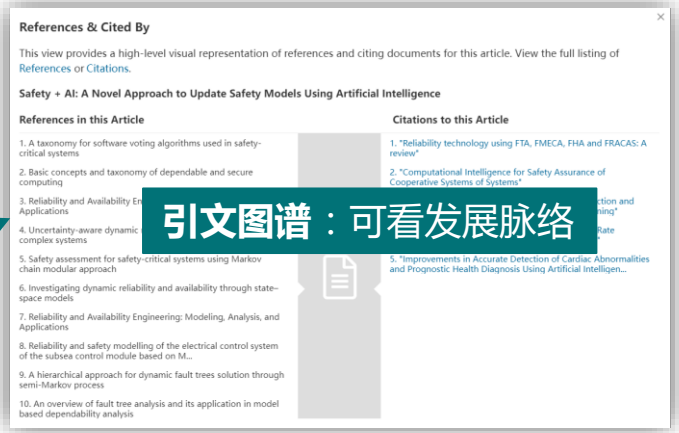

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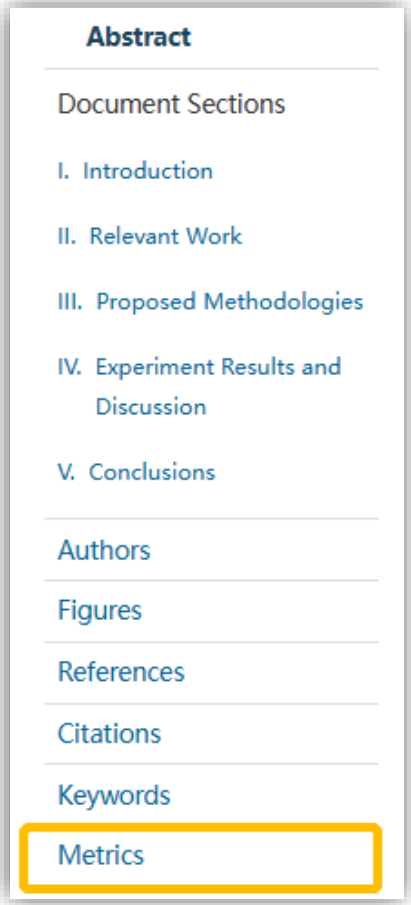

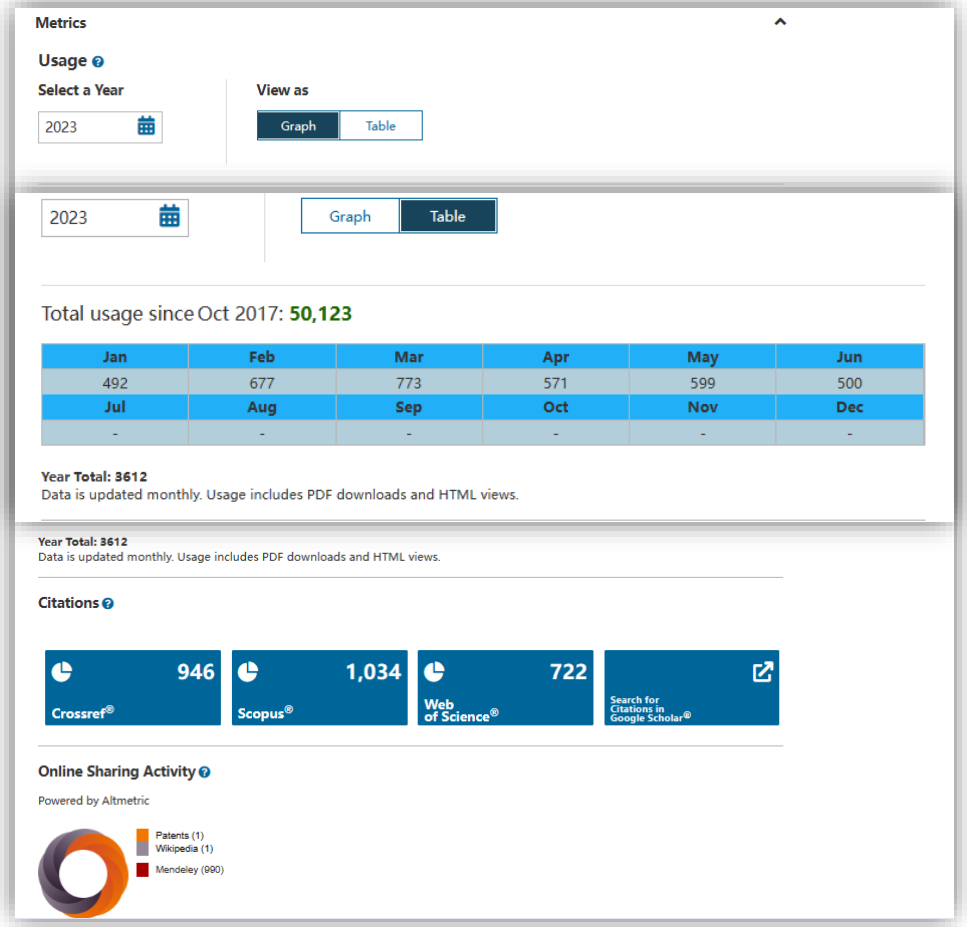

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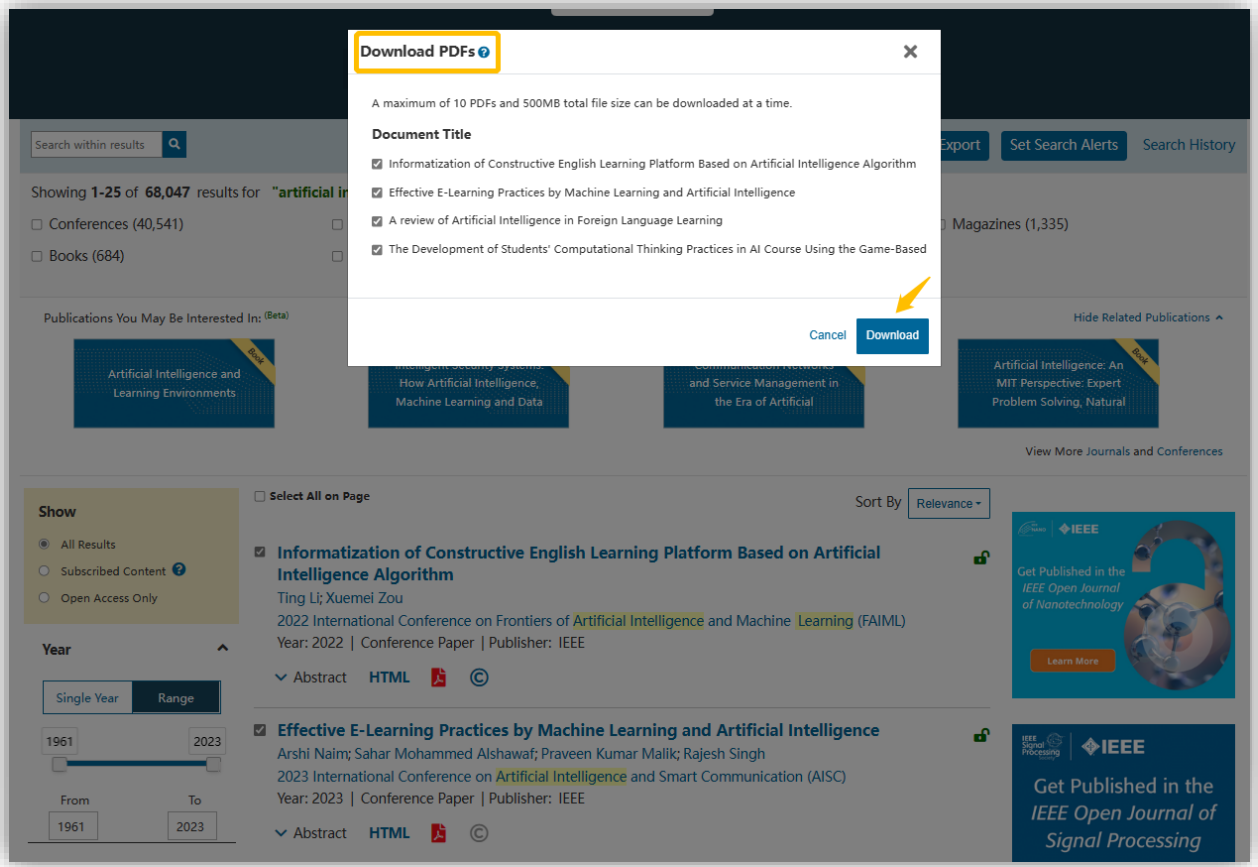

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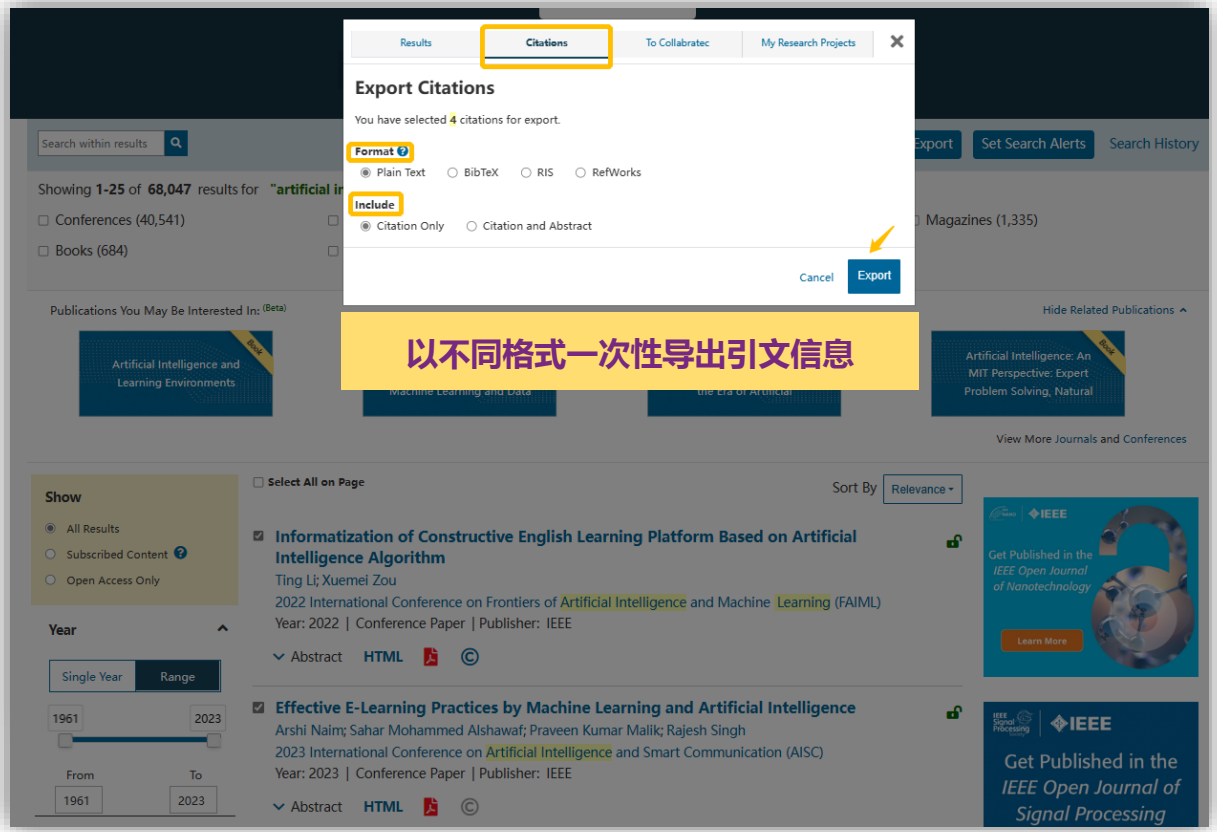
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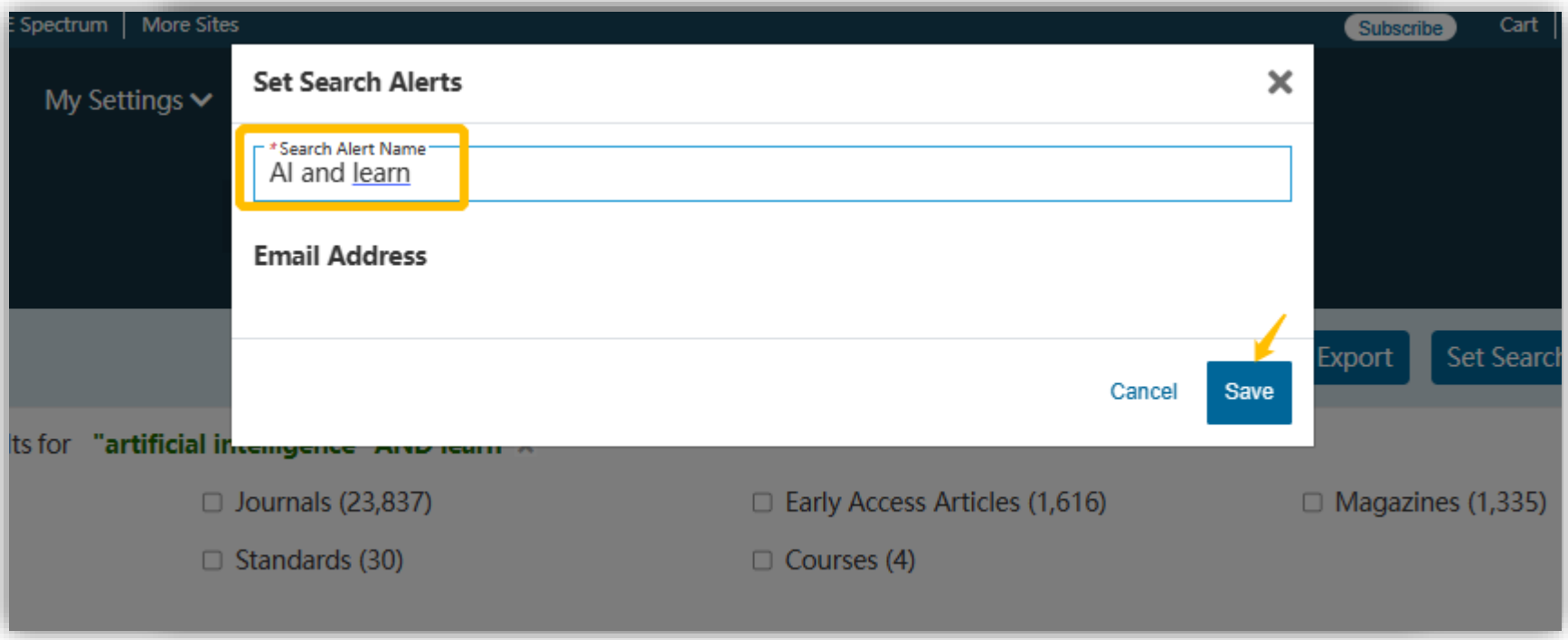

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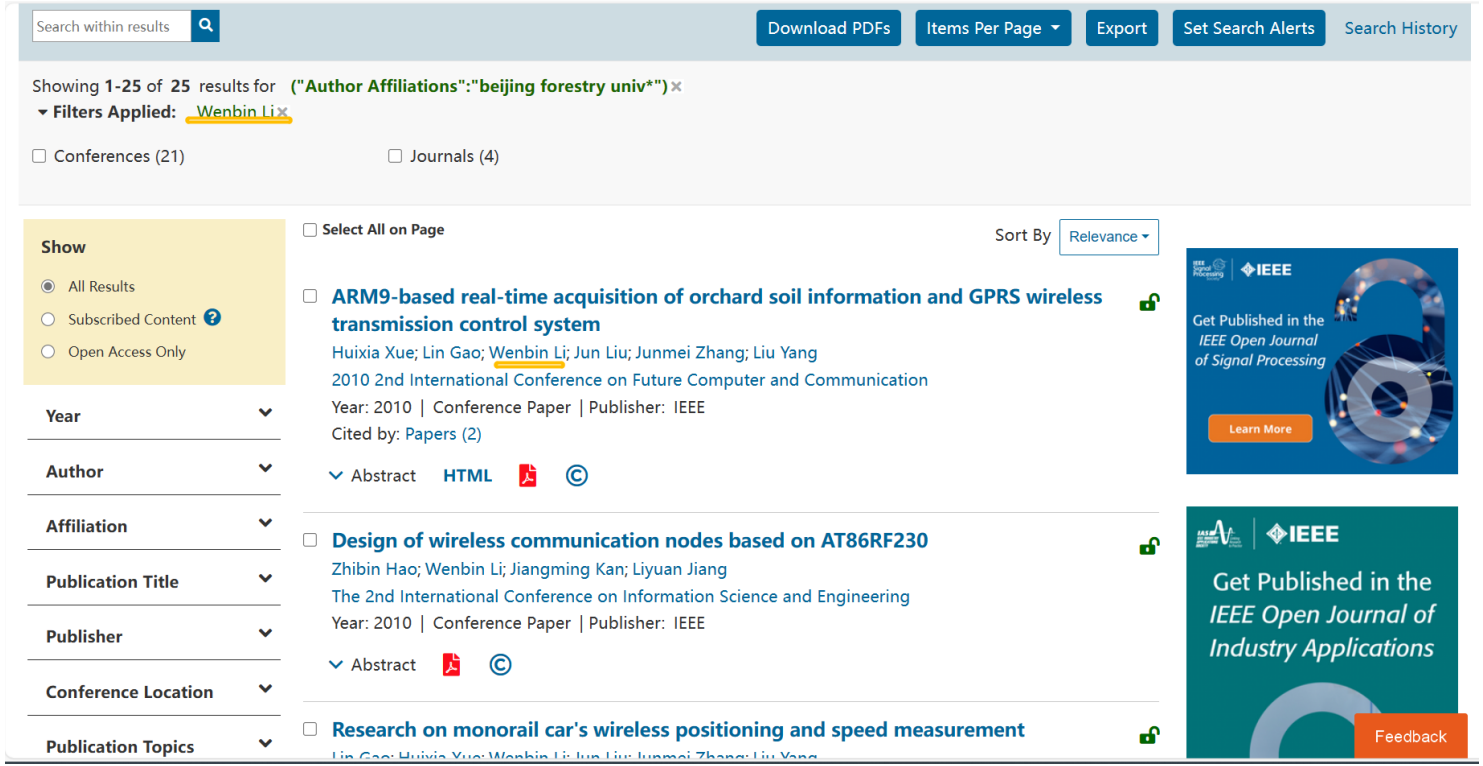

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Biography

Wenbin Li received the B.E. degree from Northeast Forestry University, Harbin, China, the M.S. degree from Shizuoka University, Shizuoka, Japan, and the Ph.D. degree from Ehime University, Ehime, Japan. He is currently a Professor with Beijing Forestry University, Beijing, China. He has published 205 academic articles. His research interests include forestry machinery, ergonomics, and forest environmental information monitoring technology. *(Based on document published on 29 January 2021).*

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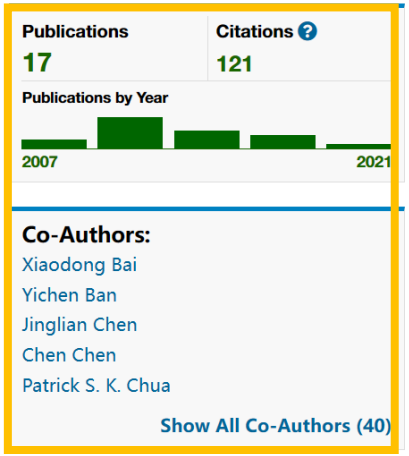

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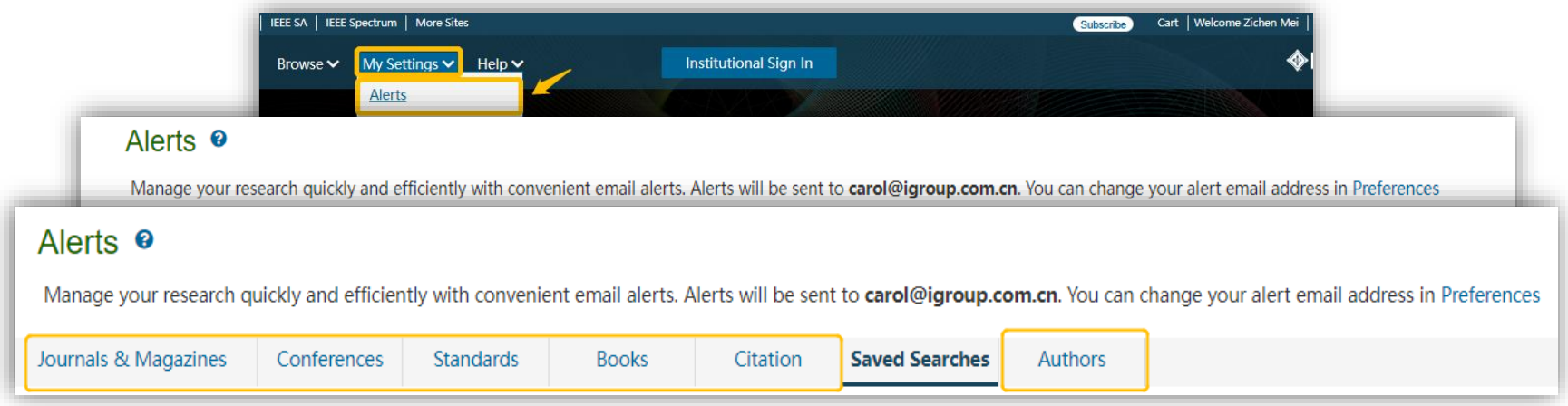

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Publisher: IEEE
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Abstract:
Intrusion detection plays an important role in ensuring information security, and the key technology is to accurately identify various attacks in the network. In this paper, 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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Date of Publication: 12 October 2017
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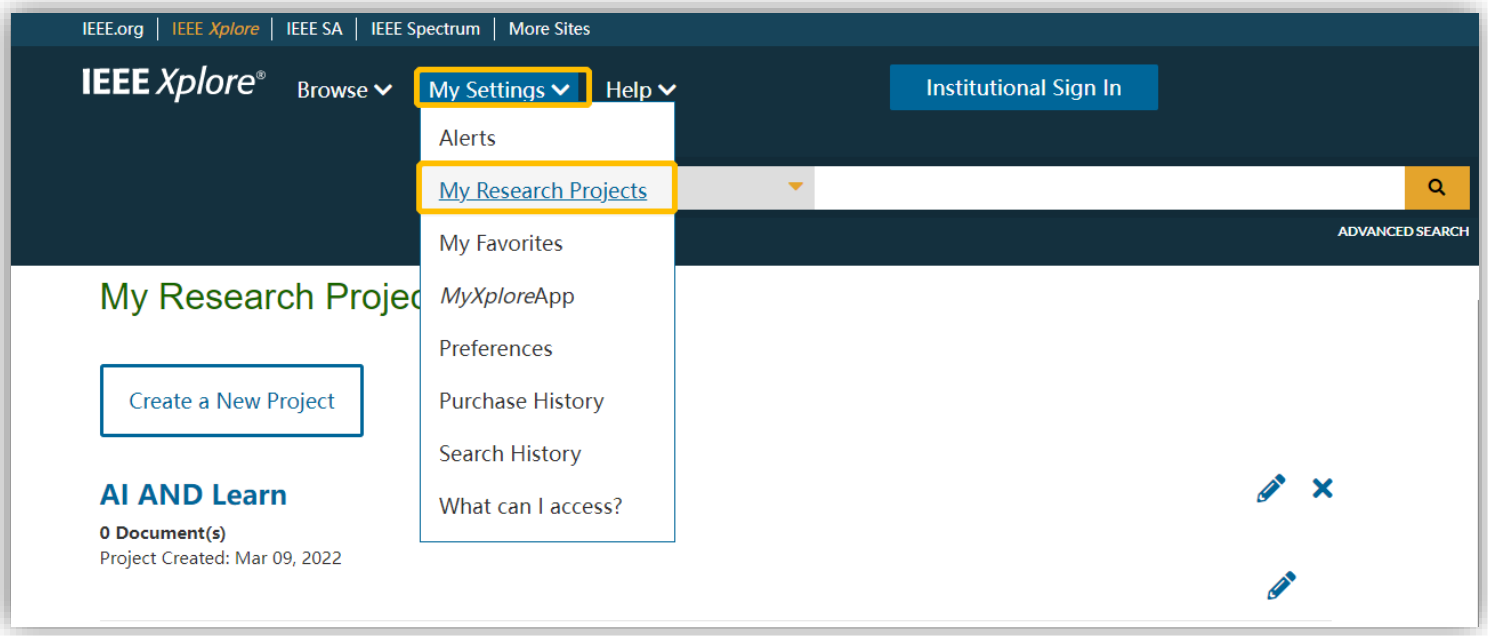

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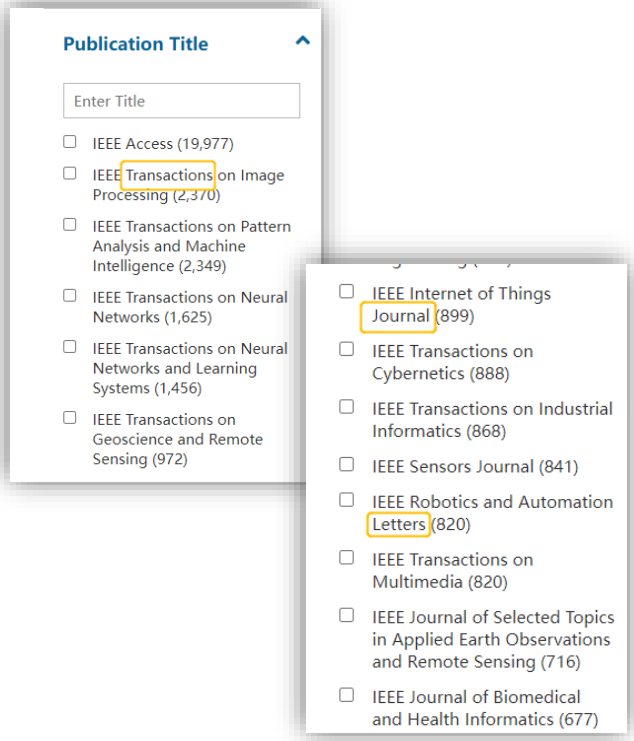

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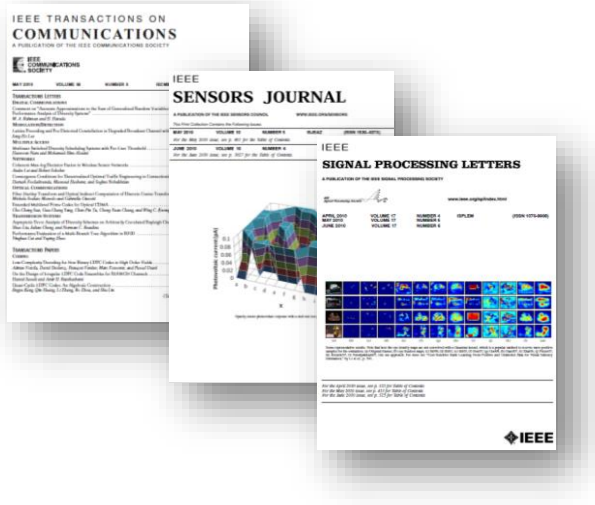

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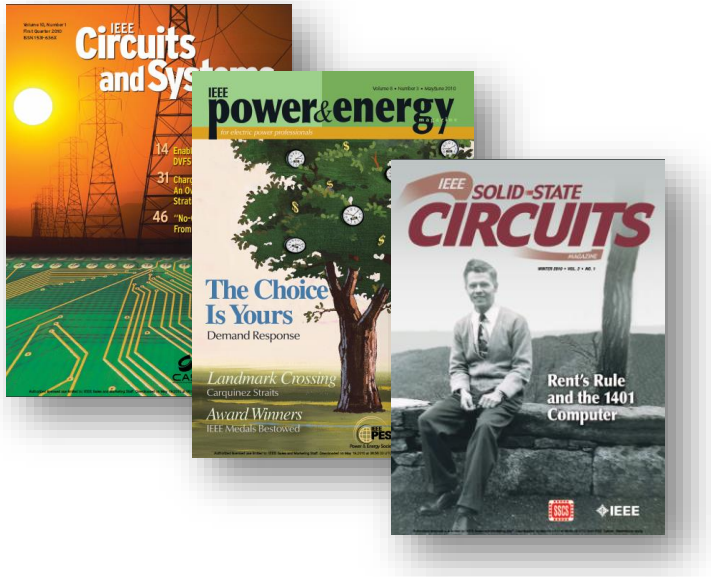

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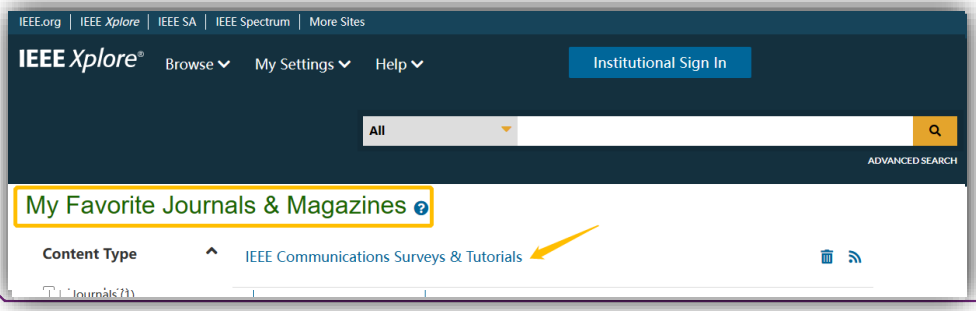
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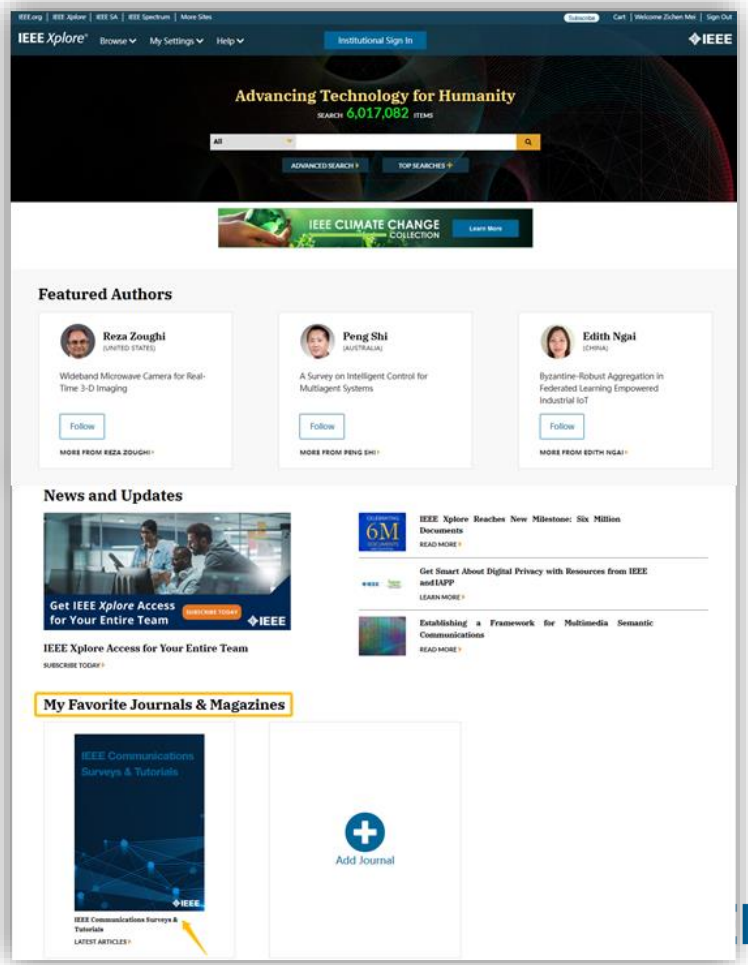
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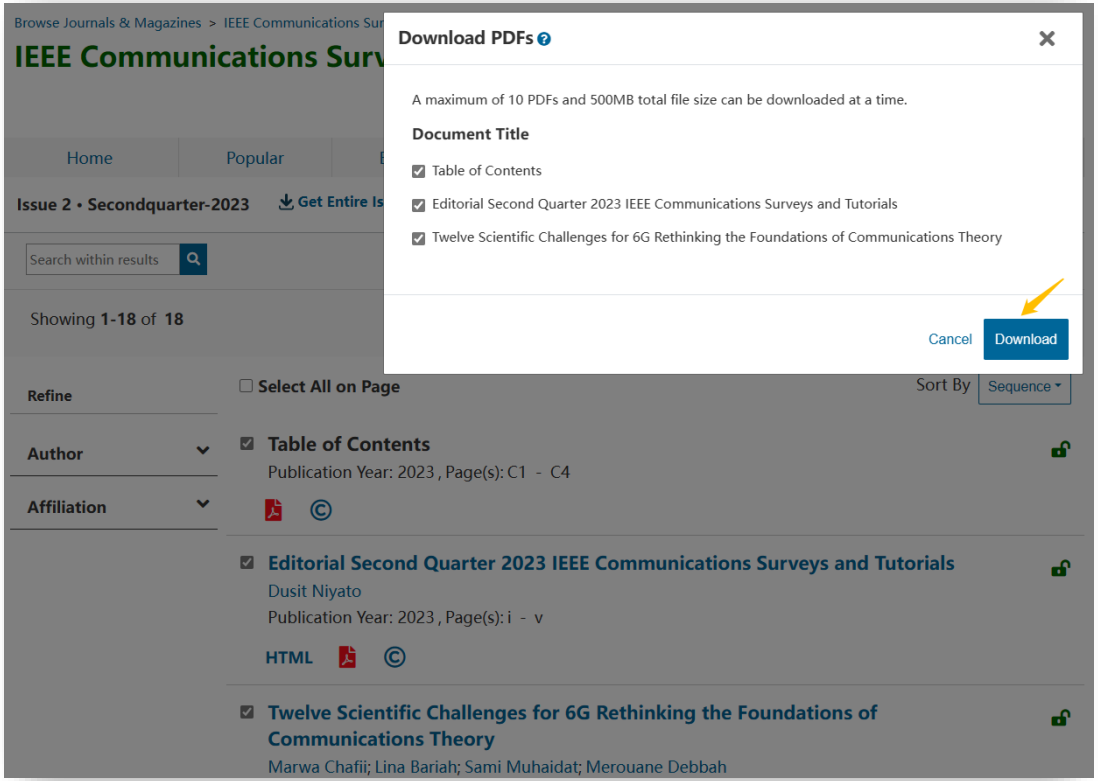
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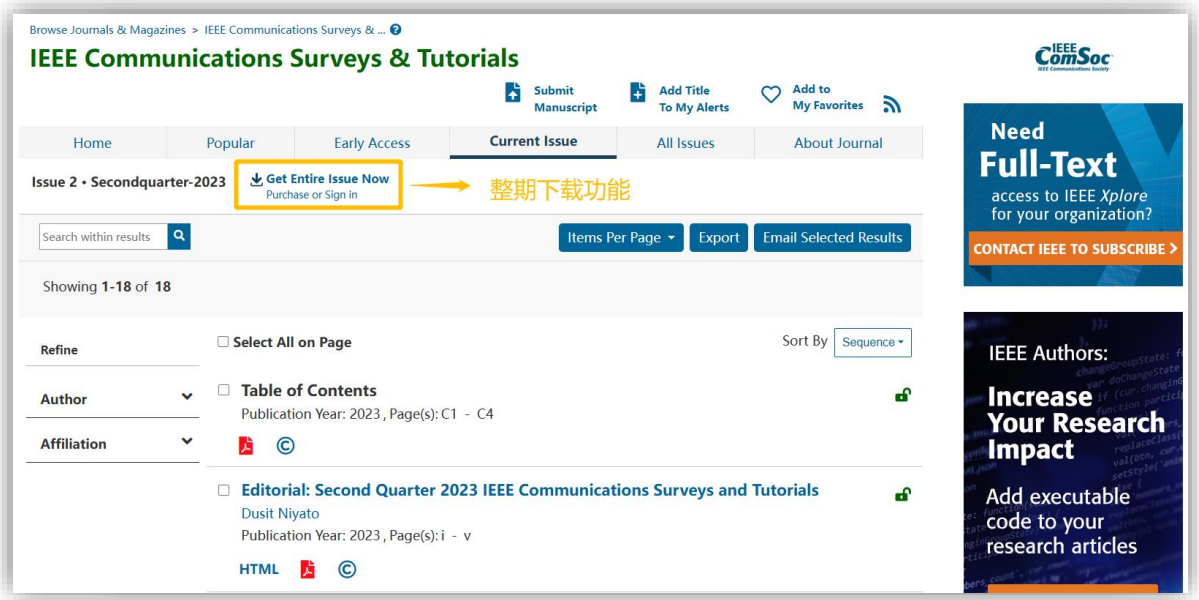
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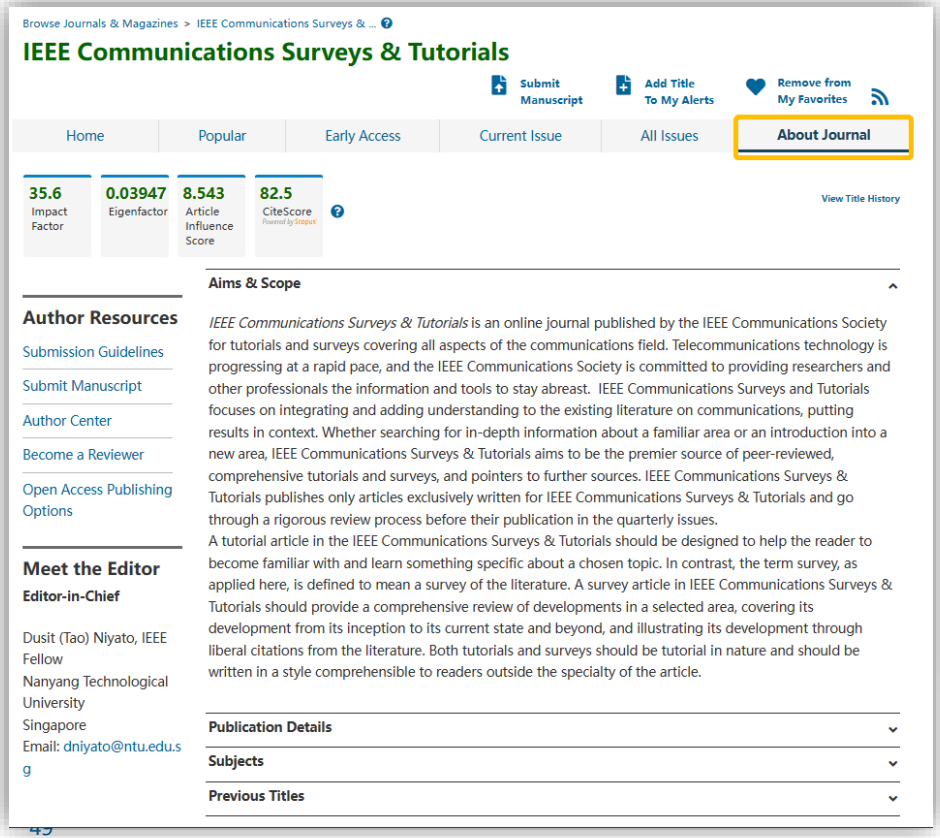

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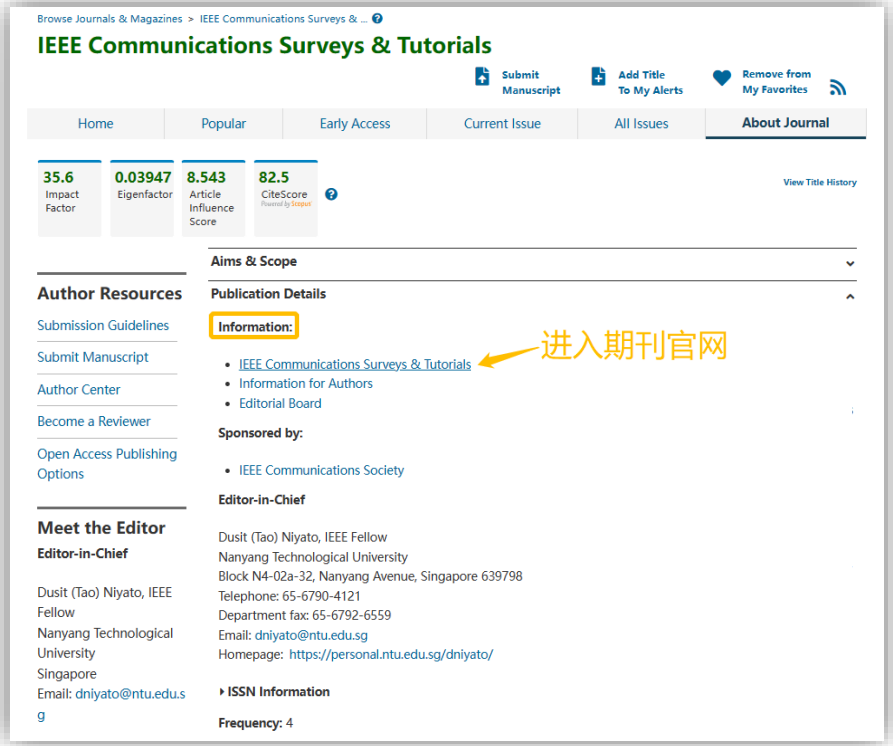

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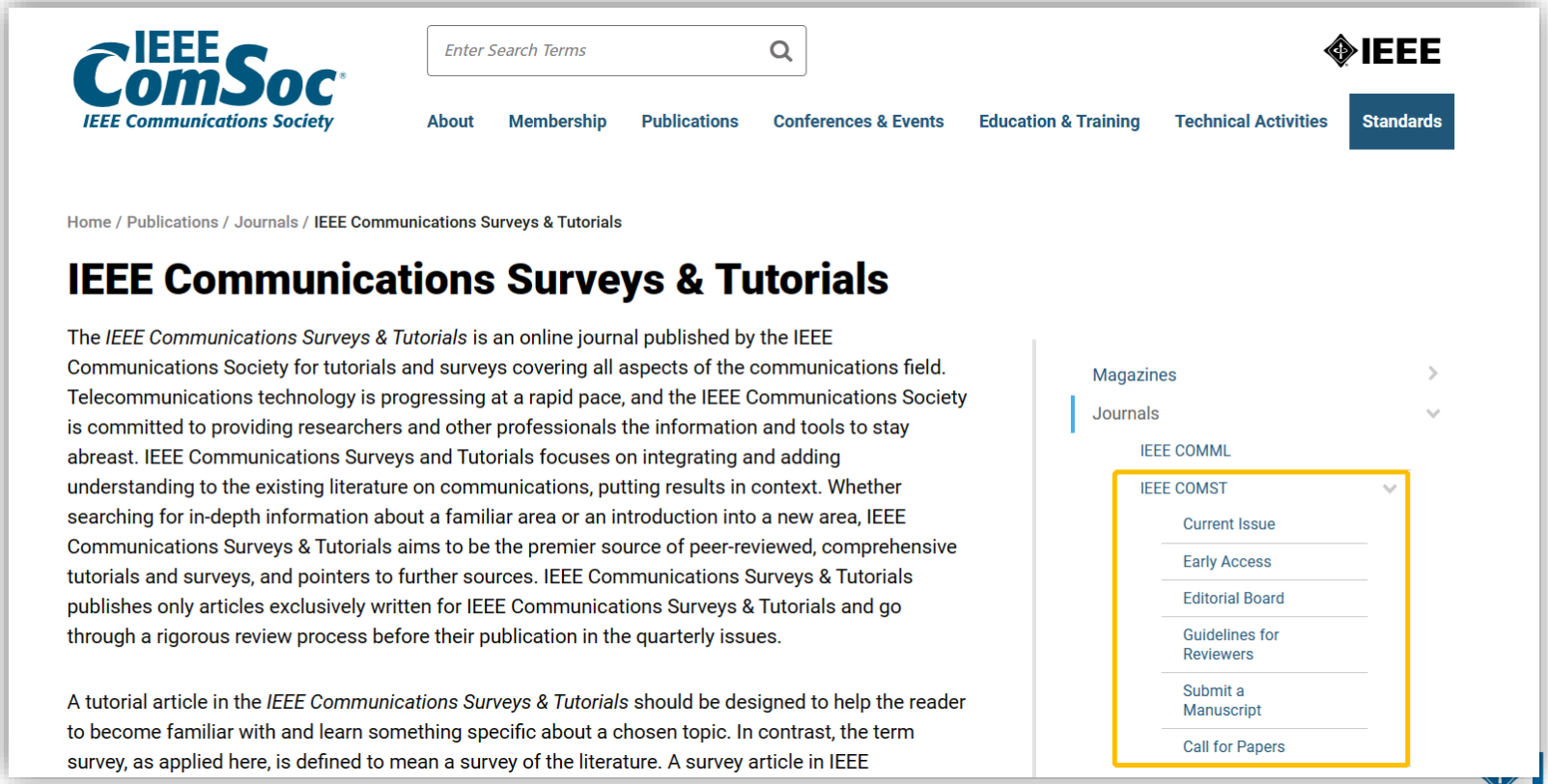
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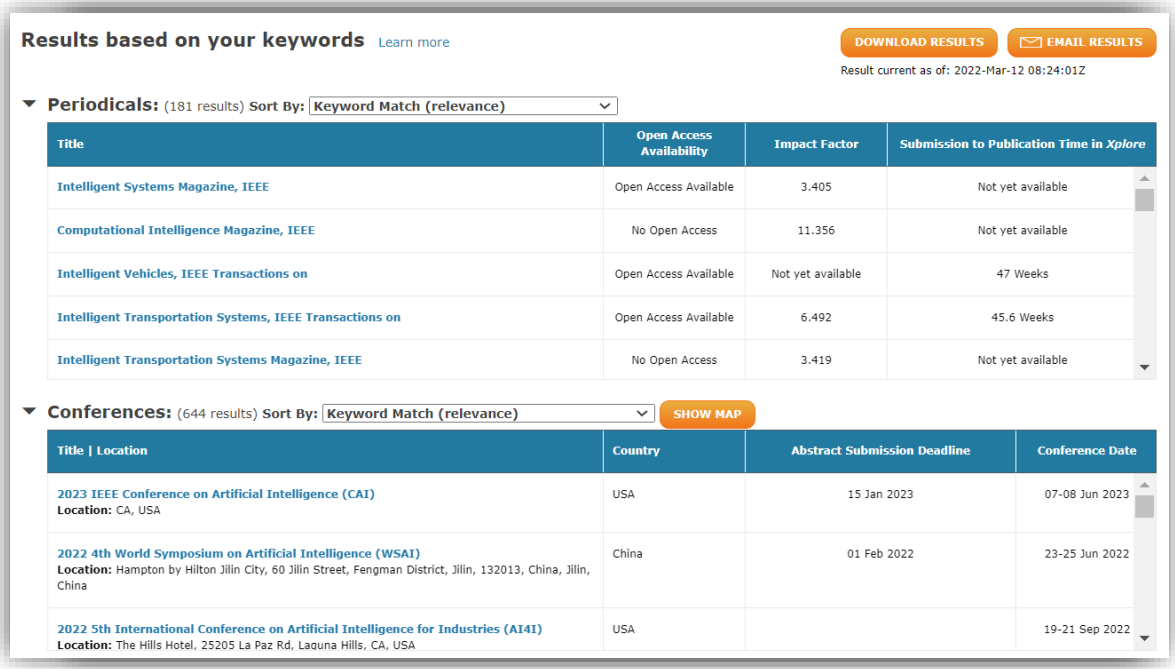

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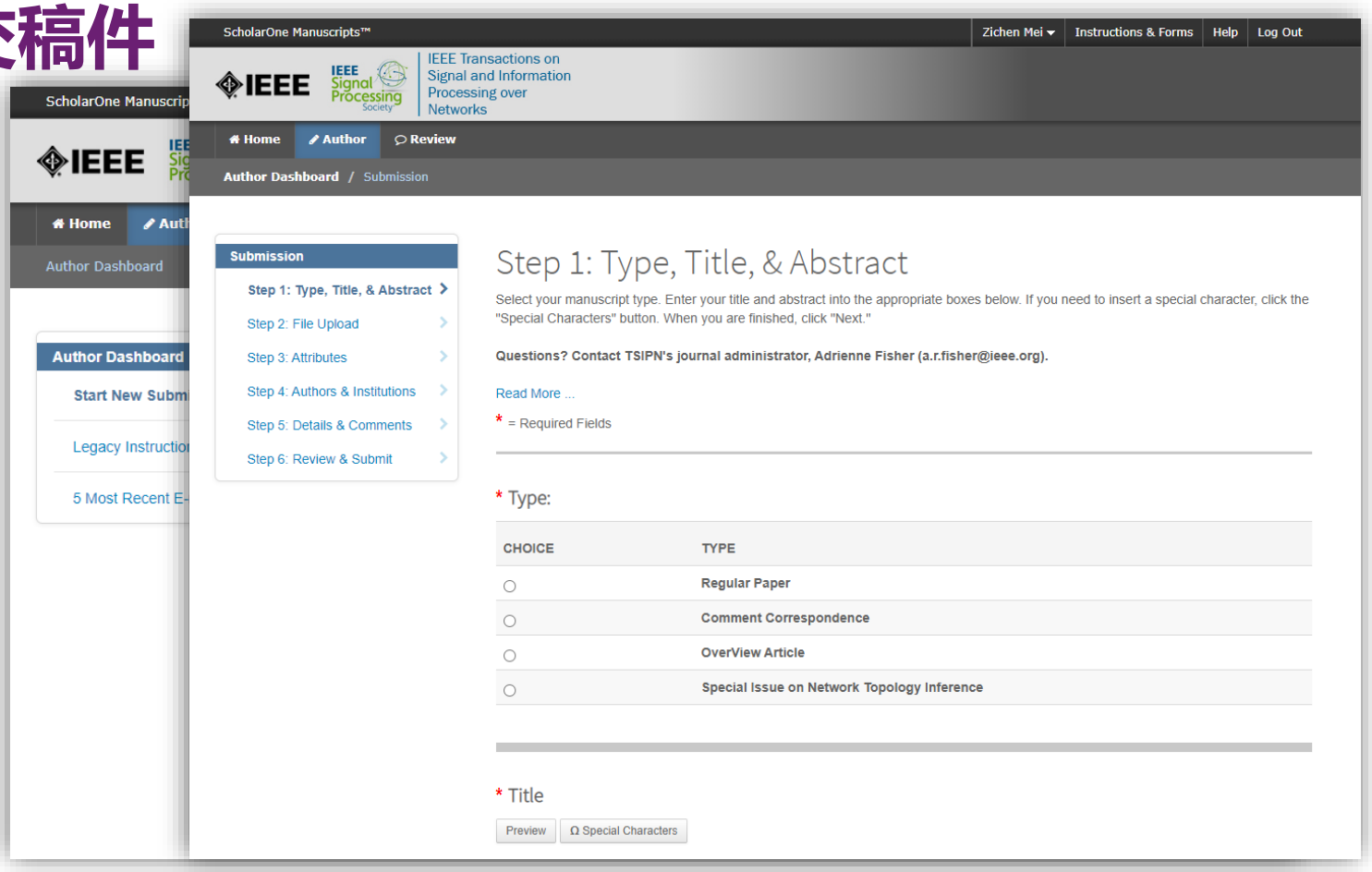
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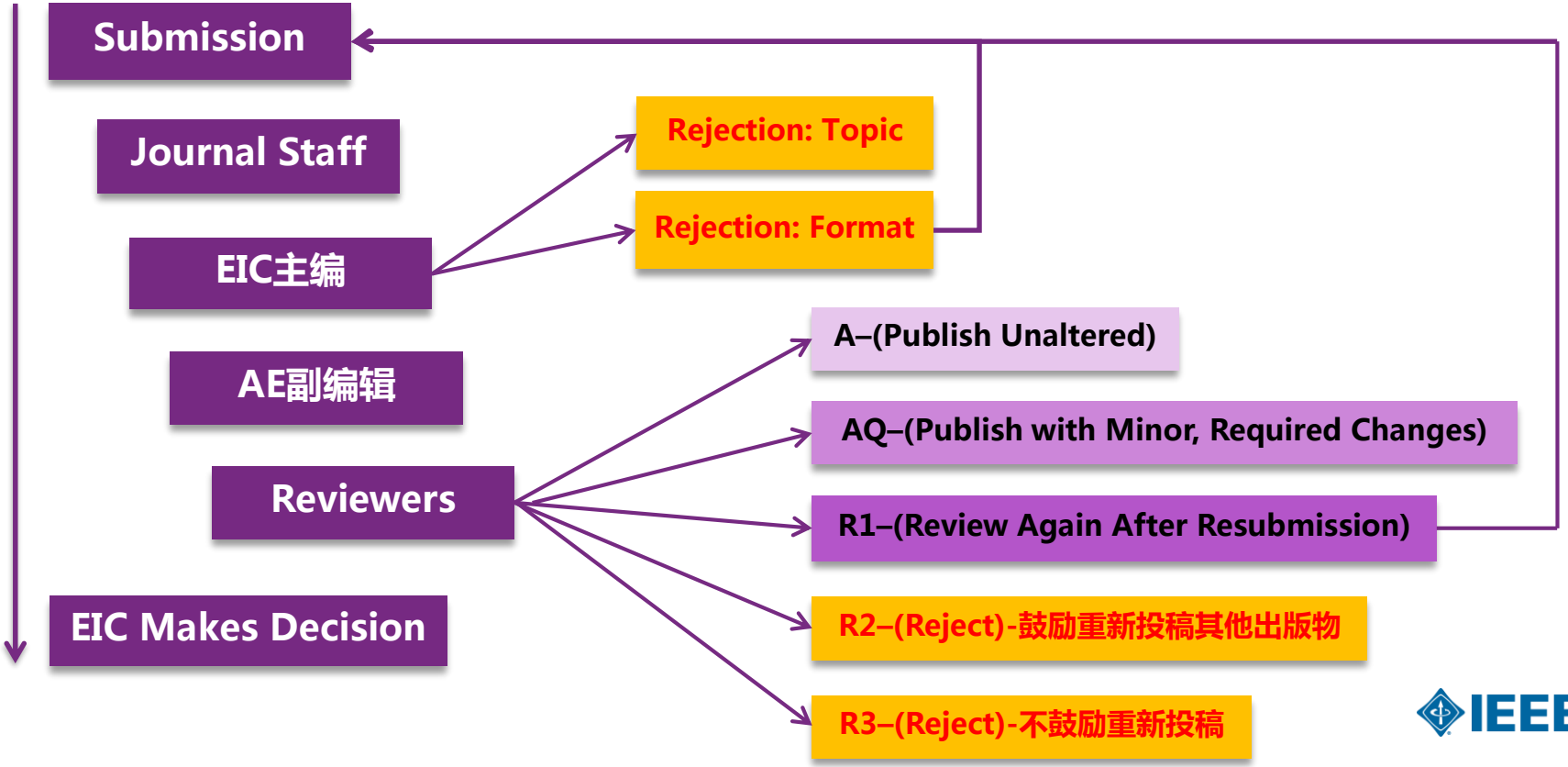
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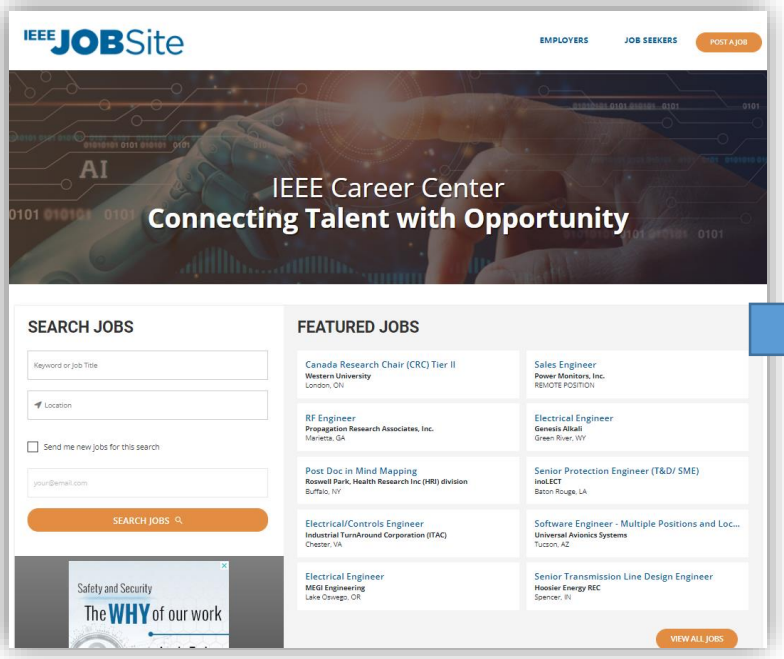

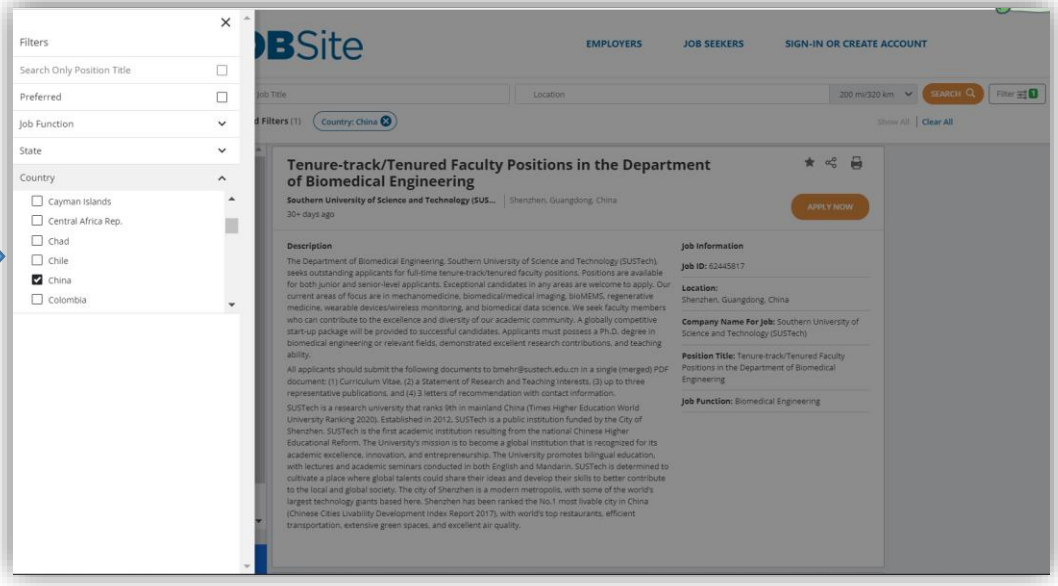

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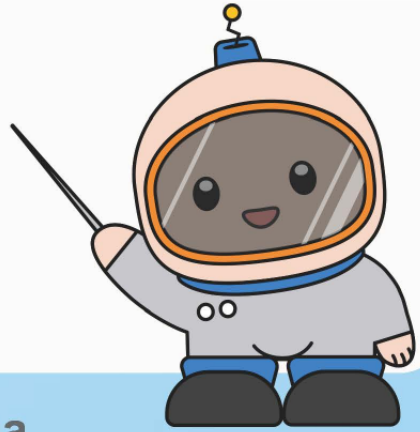

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主题三：IEEE 步履不停：领航开放科学之路	10 月 19 日，19:00–20:00
主题四：IEEE 投稿攻略，攻克投稿壁垒	10 月 26 日，19:00–20:00
主题五：IEEE 科技论文发表锦囊	11 月 2 日，19:00–20:00
主题六：善用 IEEE 衔接学业与职业发展	11 月 16 日，19:00–20:00
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