

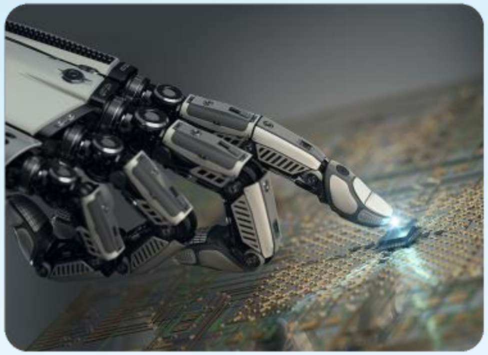

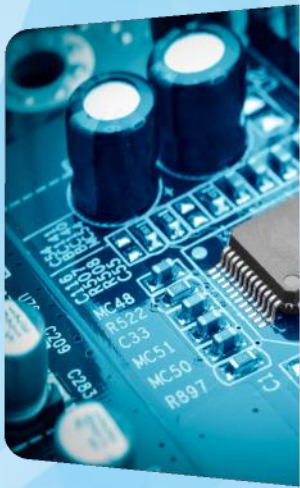

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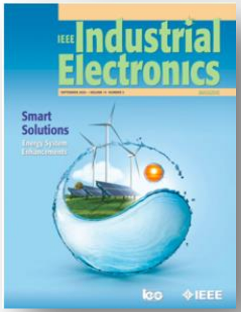

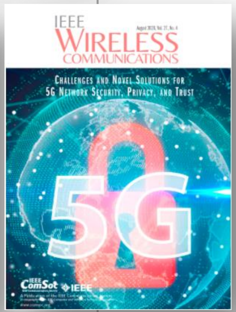

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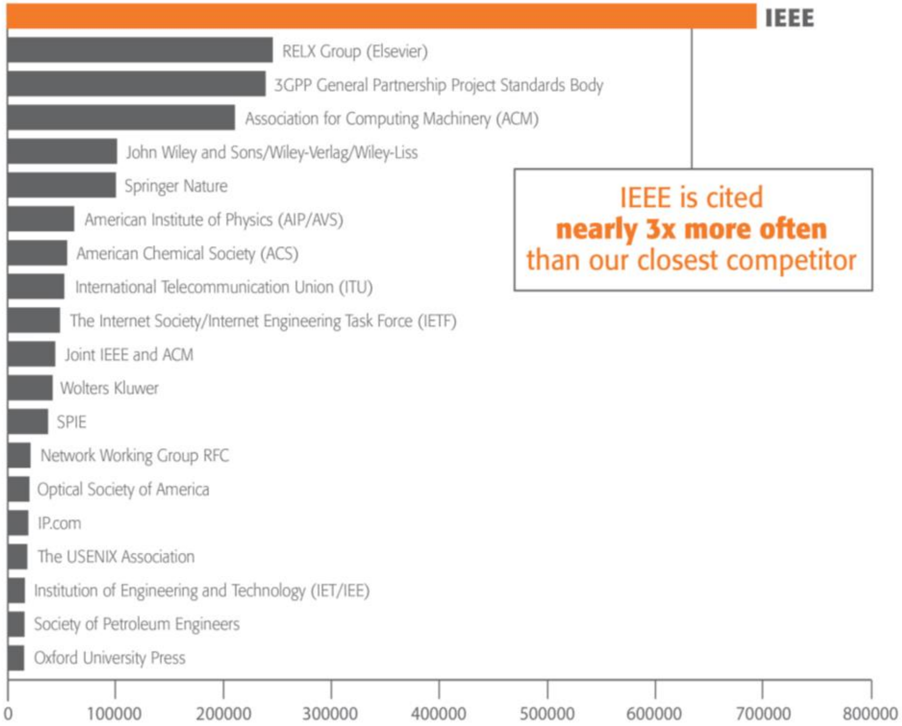

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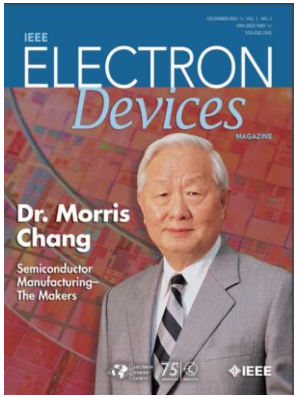

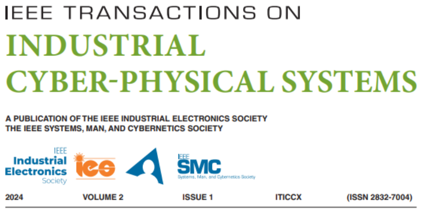

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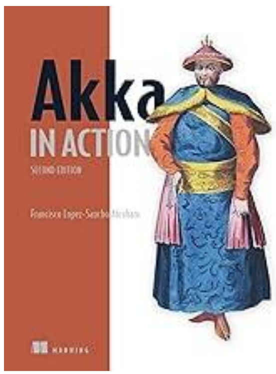

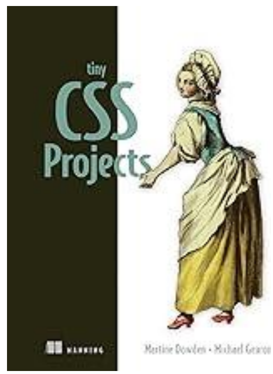

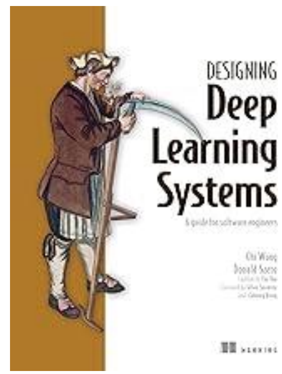

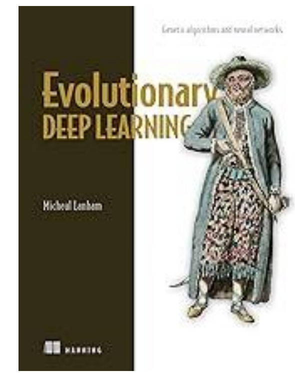

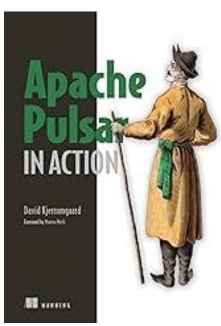

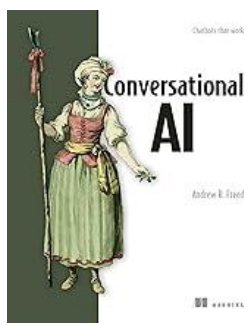

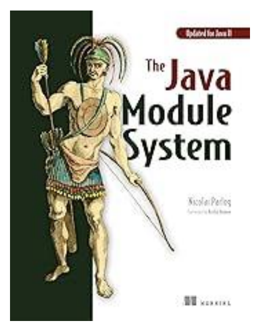

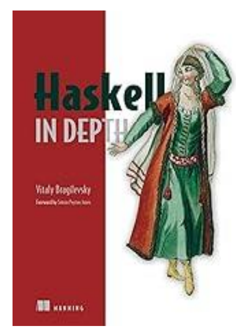

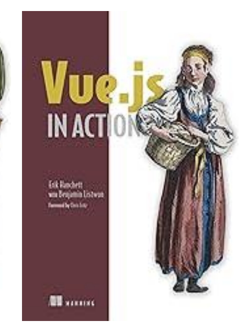

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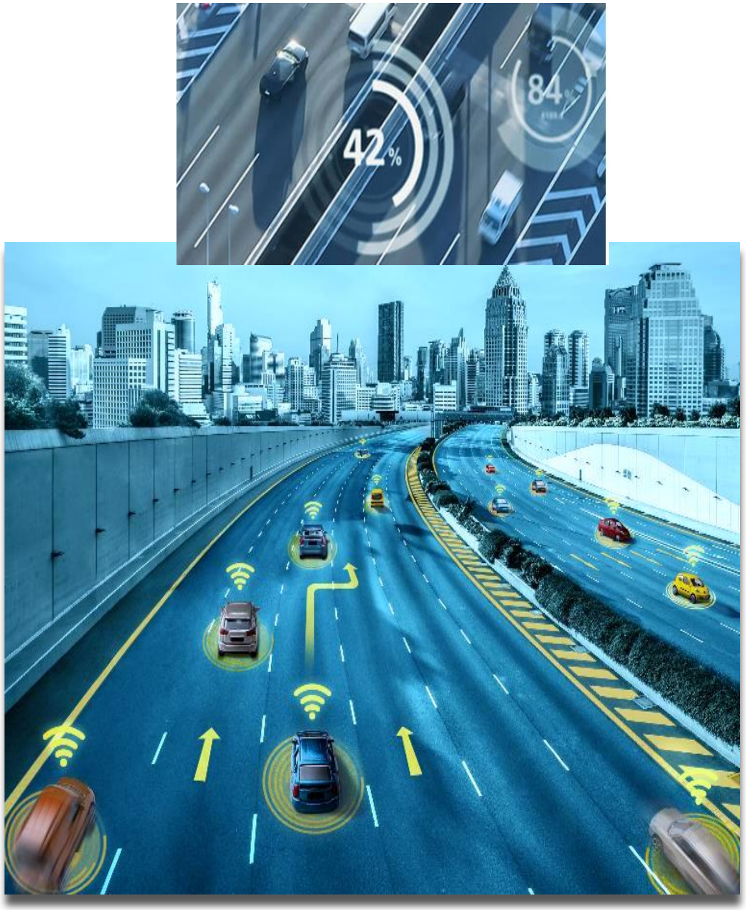

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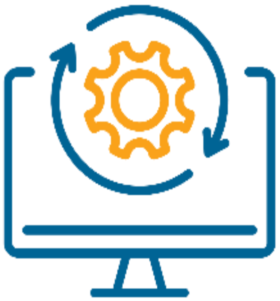

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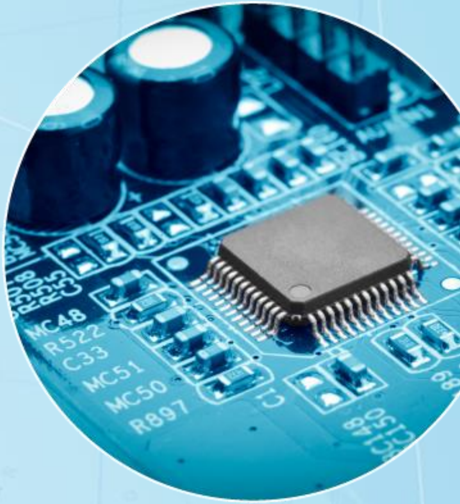

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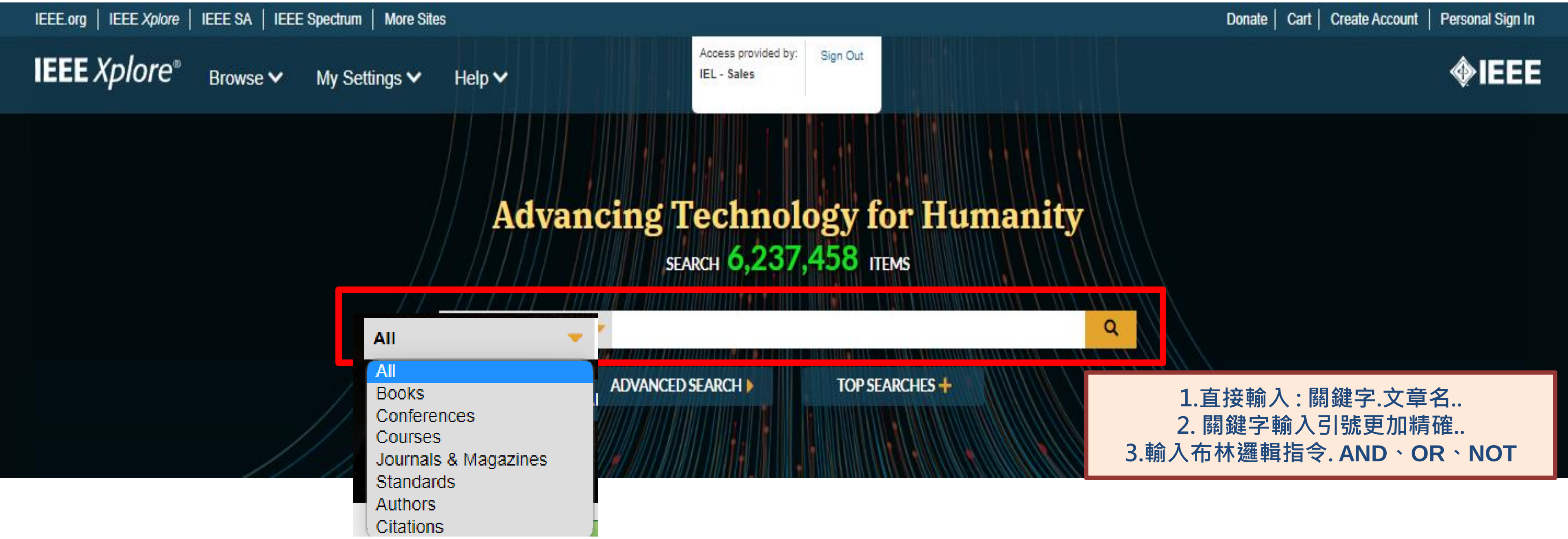

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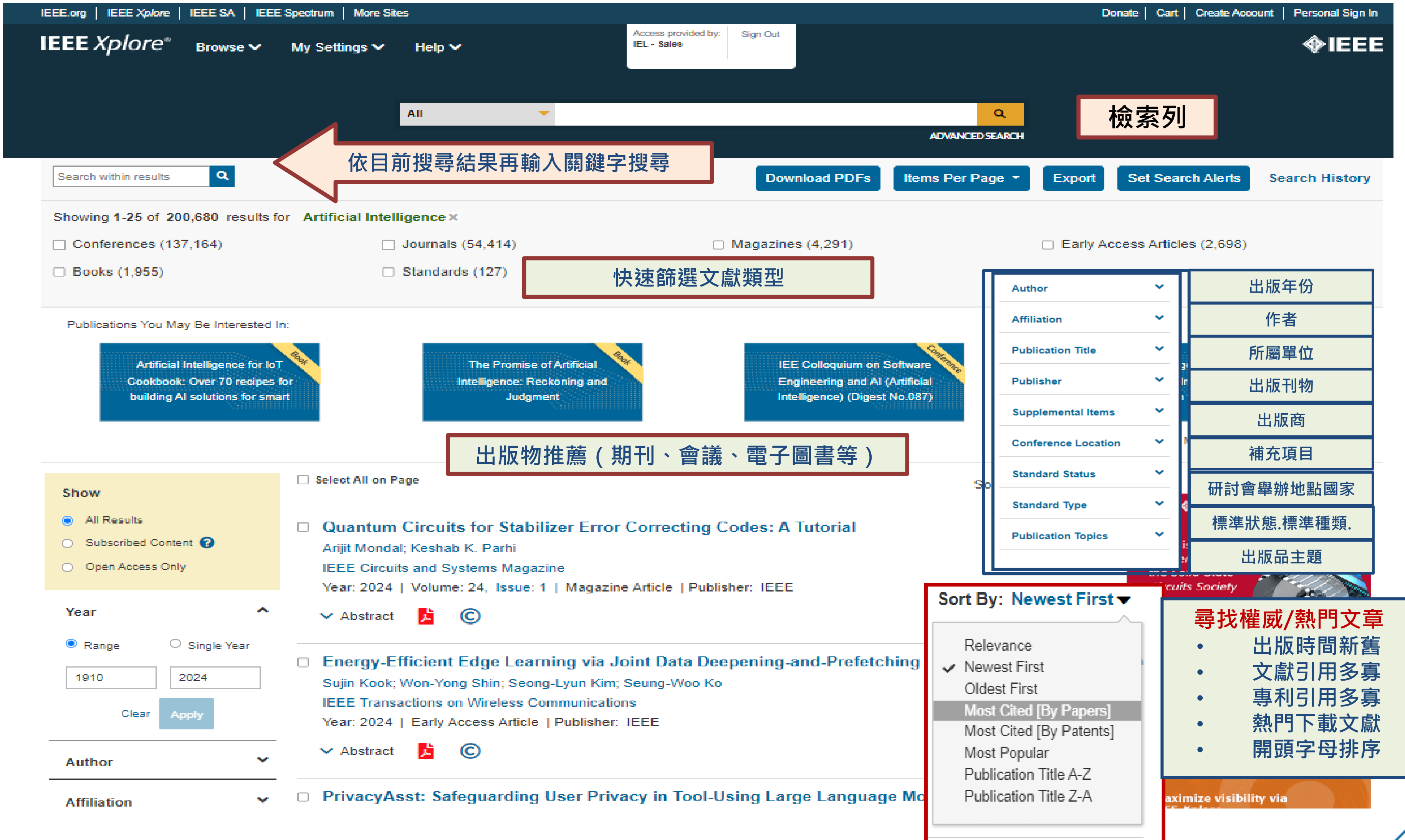

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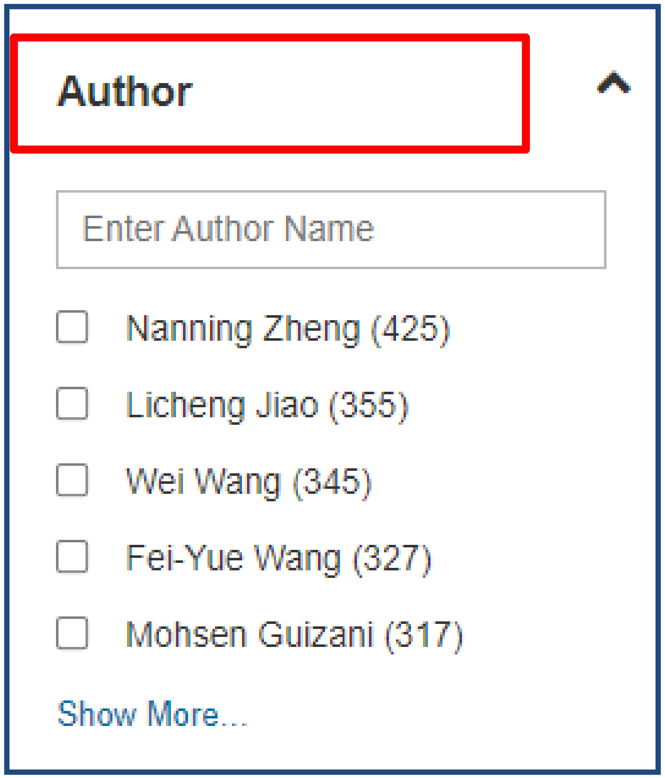

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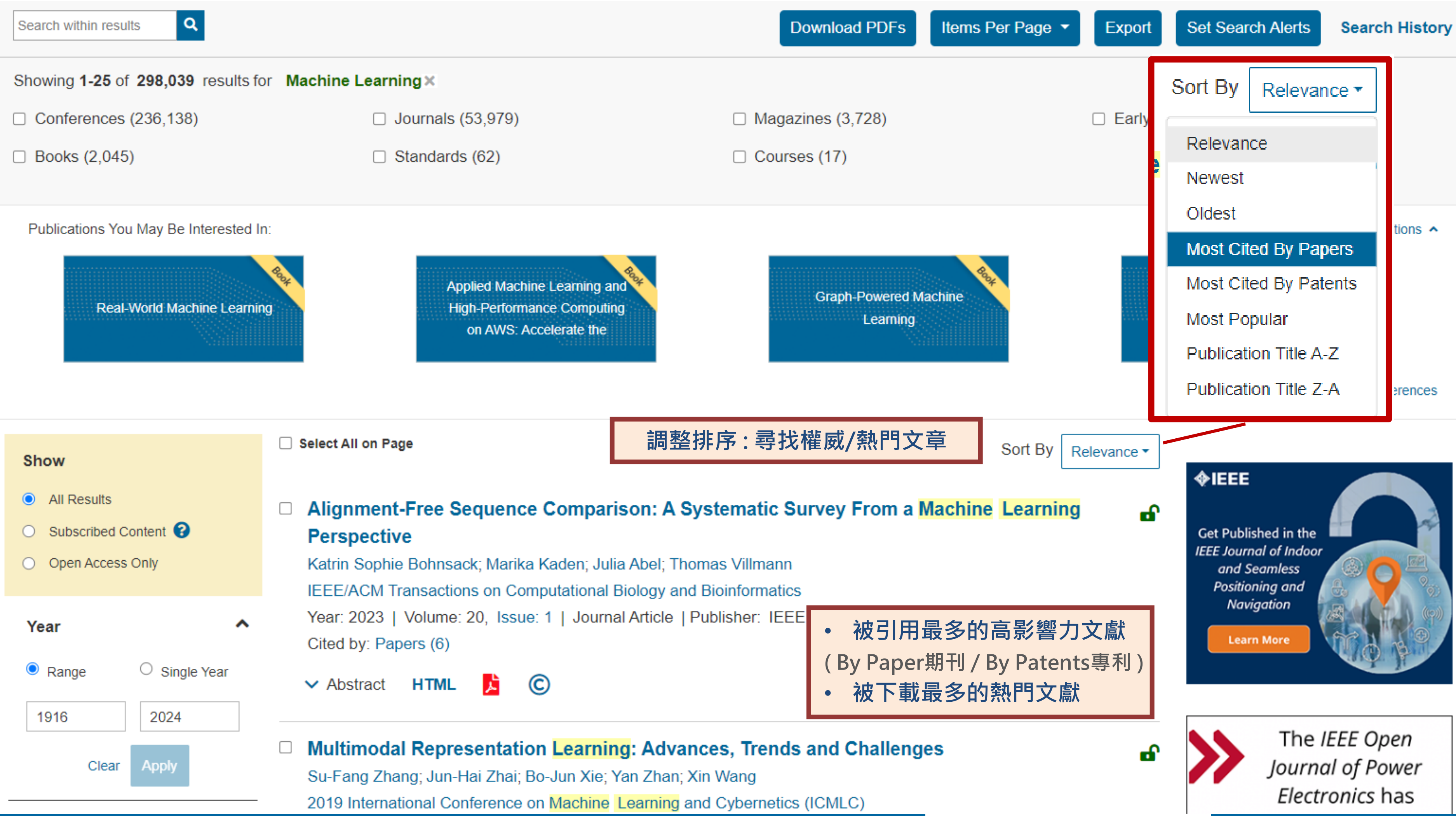

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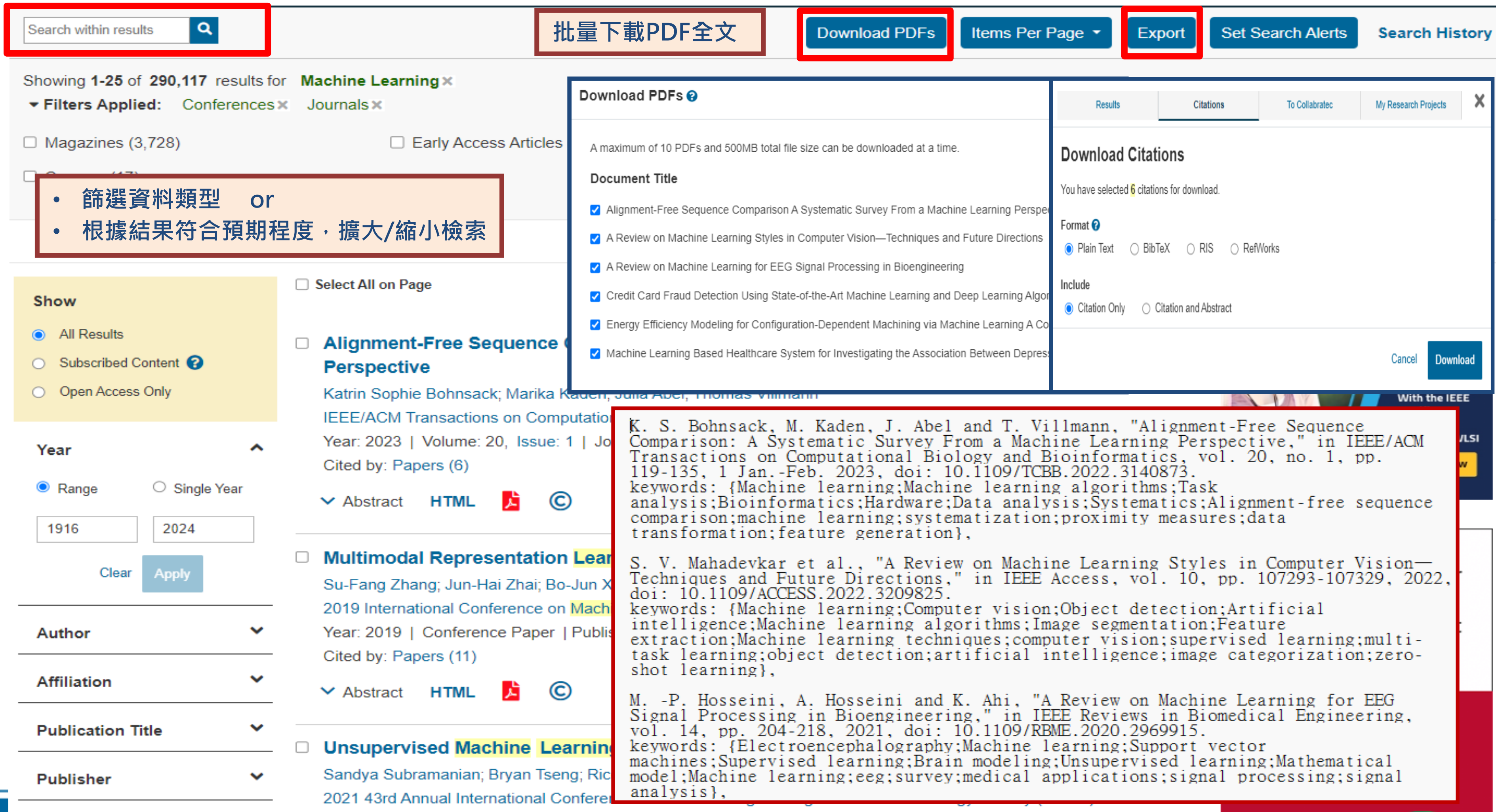

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瞭解作者詳情

Priya Goyal
Facebook AI Research

Priya Goyal received the master's degree in mathematics a
2015. She is currently a research engineer with Facebook A
object detection and object segmentation, high performance
for Deep Learning for accelerating neural networks. She co-
Student Paper Award at ICCV 2017.

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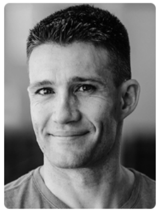

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Biography
Piotr Dollár received the PhD degree from UCSD under the guidance of Serge Belongie, in 2007 and has continued doing research in vision and learning since. He is a research scientist with Facebook AI Research (FAIR) with a focus on computer vision and machine learning. Prior, he spent three years with Microsoft Research (MSR). He helped cofound Anchovi Labs (acquired by Dropbox in 2012) and before that was a postdoc with the Computation Vision Lab at Caltech until 2011. (Based on document published on 23 July 2018).

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Aaron Adcock
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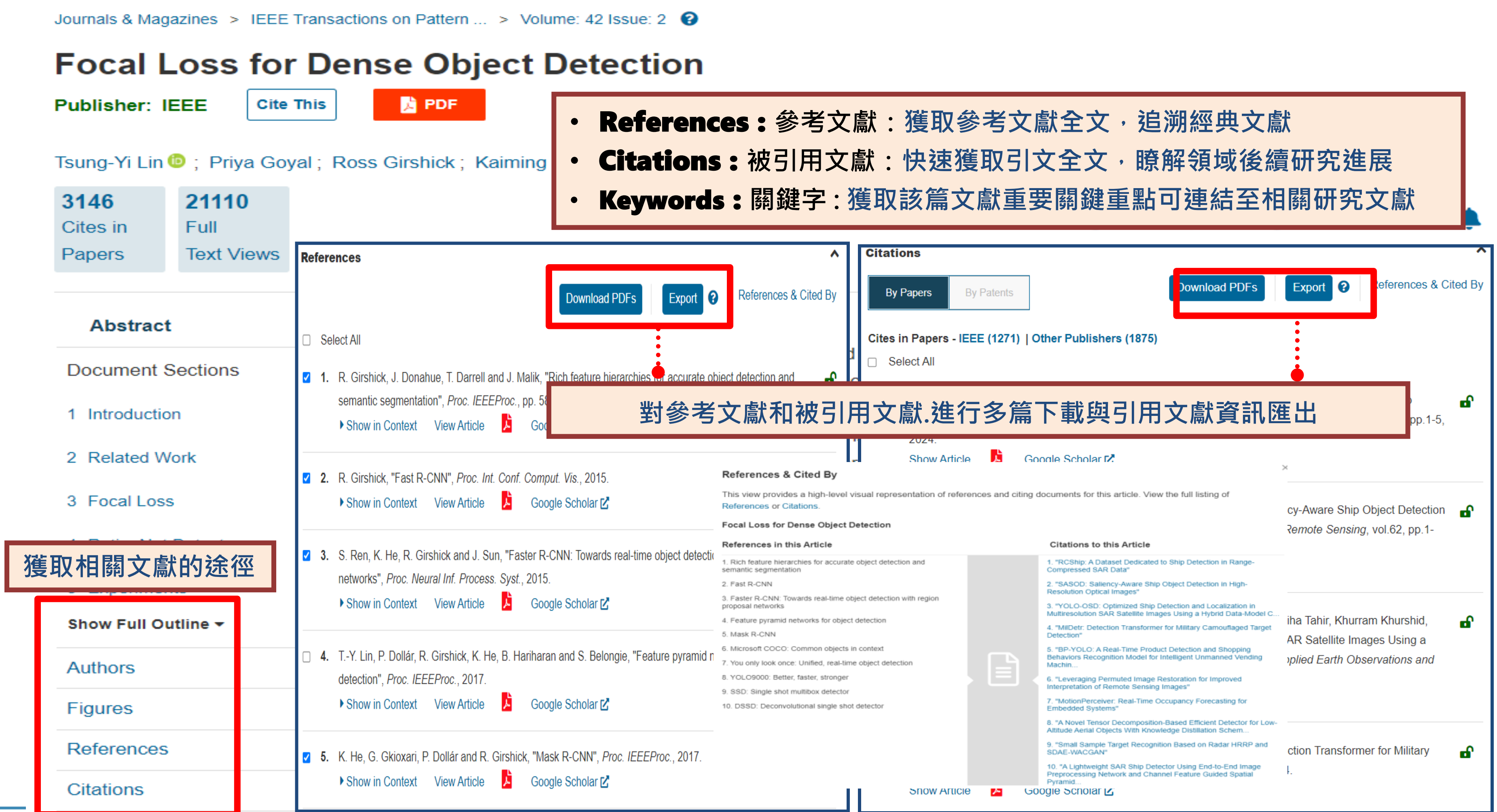

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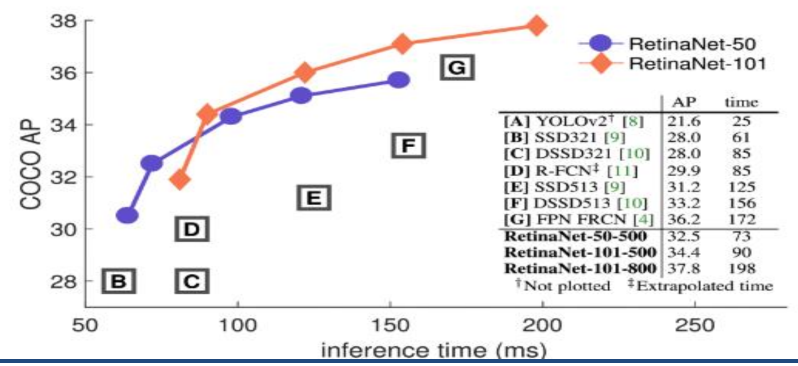

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[3] system from [4]. We show variants of RetinaNet with ResNet-50-FPN (blue circles) and ResNet-101-FPN

3. S. Ren, K. He, R. Girshick and J. Sun, "Faster R-CNN: Towards real-time object detection with region proposal networks", *Proc. Neural Inf. Process. Syst.*, 2015.

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Zonghan Wu; Shirui Pan; Fengwen Chen; Guodong Long; Chengqi Zhang; Philip S. Yu

IEEE Transactions on Neural Networks and Learning Systems

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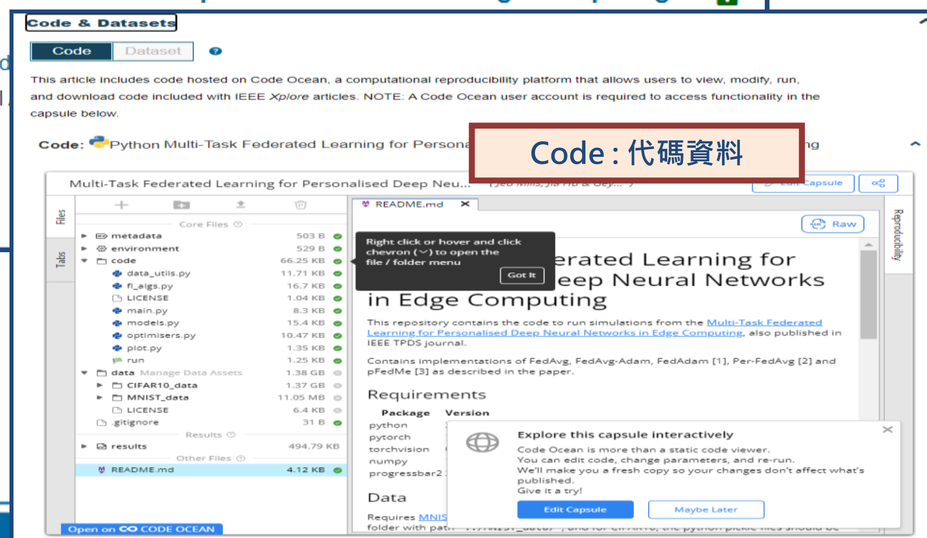

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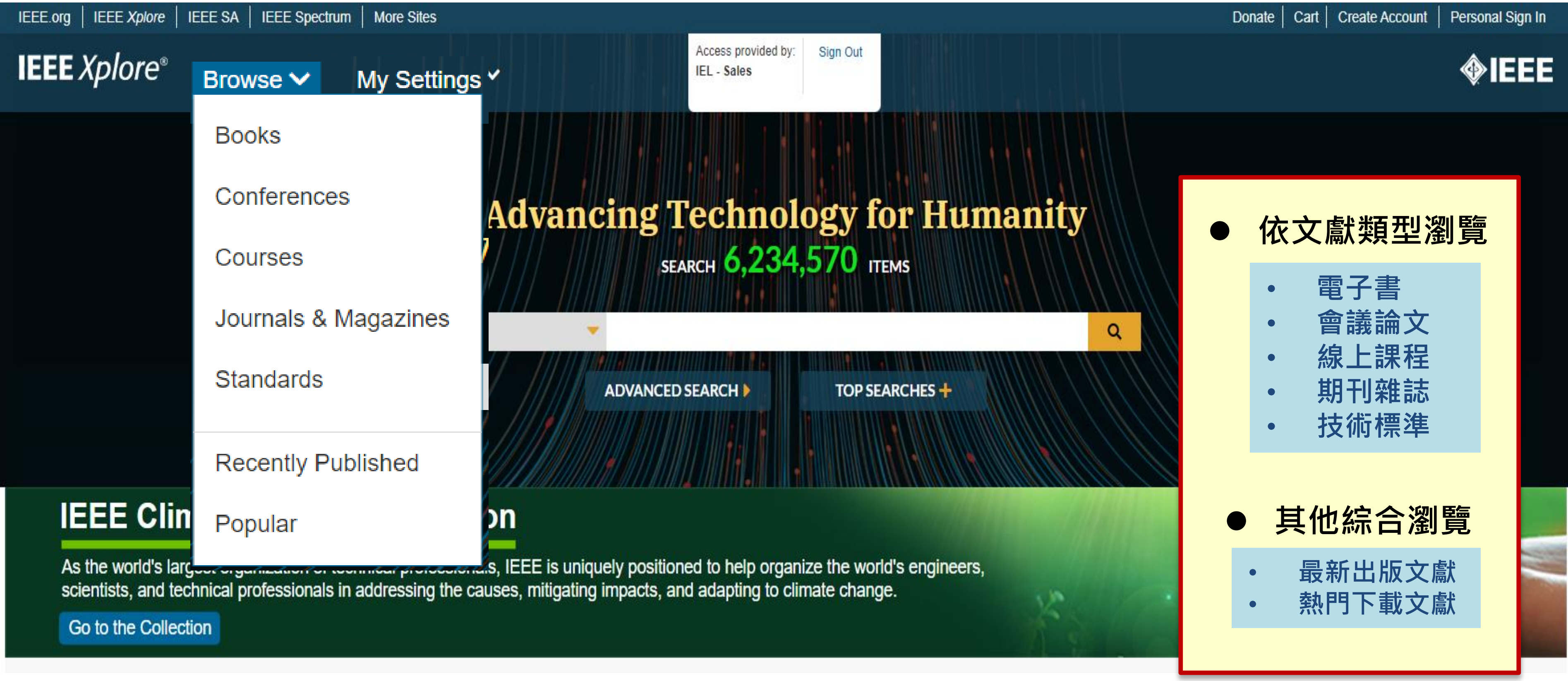

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***Abstract*— Vision transformers (ViTs) have been trending in image classification tasks due to their promising performance when compared with convolutional neural networks (CNNs). As a result, many researchers have tried to incorporate ViTs in hyperspectral image (HSI) classification tasks. To achieve satisfactory performance, close to that of CNNs, transformers need fewer parameters. ViTs and other similar transformers use an external classification (CLS) token, which is randomly initialized and often fails to generalize well, whereas other sources of multimodal datasets, such as light detection and ranging (LiDAR), offer the potential to improve these models by means of a CLS. In this article, we introduce a new multimodal fusion transformer (MFT) network, which comprises a multihead cross-patch attention (mCrossPA) for HSI land-cover classification. Our mCrossPA utilizes other sources of complementary information in addition to the HSI in the transformer encoder to achieve better generalization. The concept of tokenization is used to generate CLS and HSI patch tokens, helping to learn a distinctive representation in a reduced and hierarchical feature space. Extensive experiments are carried out on widely used benchmark datasets, i.e., the University of Houston (UH), Trento, University of Southern Mississippi Gulfpark (MUUFL), and Augsburg. We compare the results of the proposed MFT model with other state-of-the-art transformers, classical CNNs, and conventional classifiers models. The superior performance achieved by the proposed model is due to the use of mCrossPA. The source code will be made available publicly at https://github.com/AnkurDeria/MFT.**

I. Introduction and Contributions

PHENOMENA, such as climate change or desertification, have led to a drastic growth in the popularity of Earth observation (EO) via remote sensing (RS). These tasks include (but are not limited to) land-cover classification [1], [2], [3], forestry [4], mineral exploration and mapping, object/target detection [5], [6], environmental monitoring [7], urban planning [8], biodiversity conservation, and disaster response and management. All of these tasks have been explored in the past few decades using data coming from single EO sensors, i.e., hyperspectral imaging (HSI) instruments, which can simultaneously provide rich spectral and spatial information [9]. However, such single-sensor data tend not sufficient to identify and recognize objects of interest.

Recent advances in RS technology have increased the availability of multisensor data, allowing for multiple representations of the same geographical region. Depending on the sensors' characteristics, the captured data can provide information with different characteristics for the same observed land-cover region. For example, synthetic-aperture radar (SAR) data provide the amplitude and phase geometrical information, while light detection and ranging (LiDAR)

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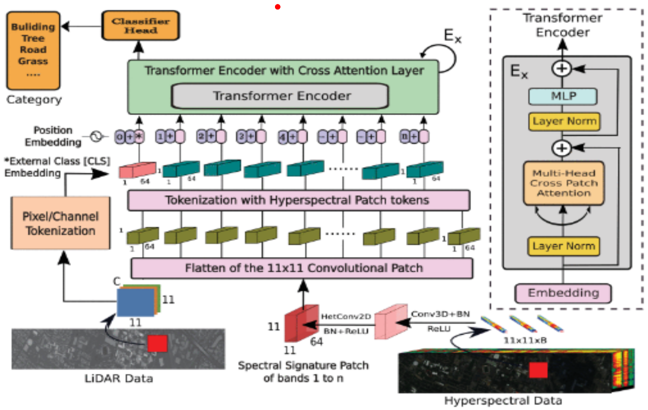

Graphical representation of the proposed MFT network for HSI and LiDAR data fusion.

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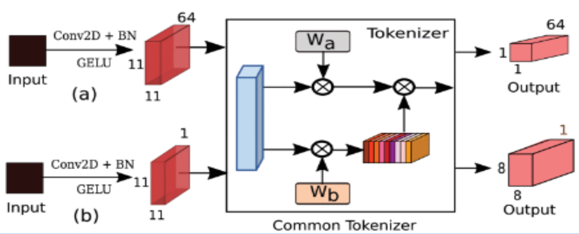

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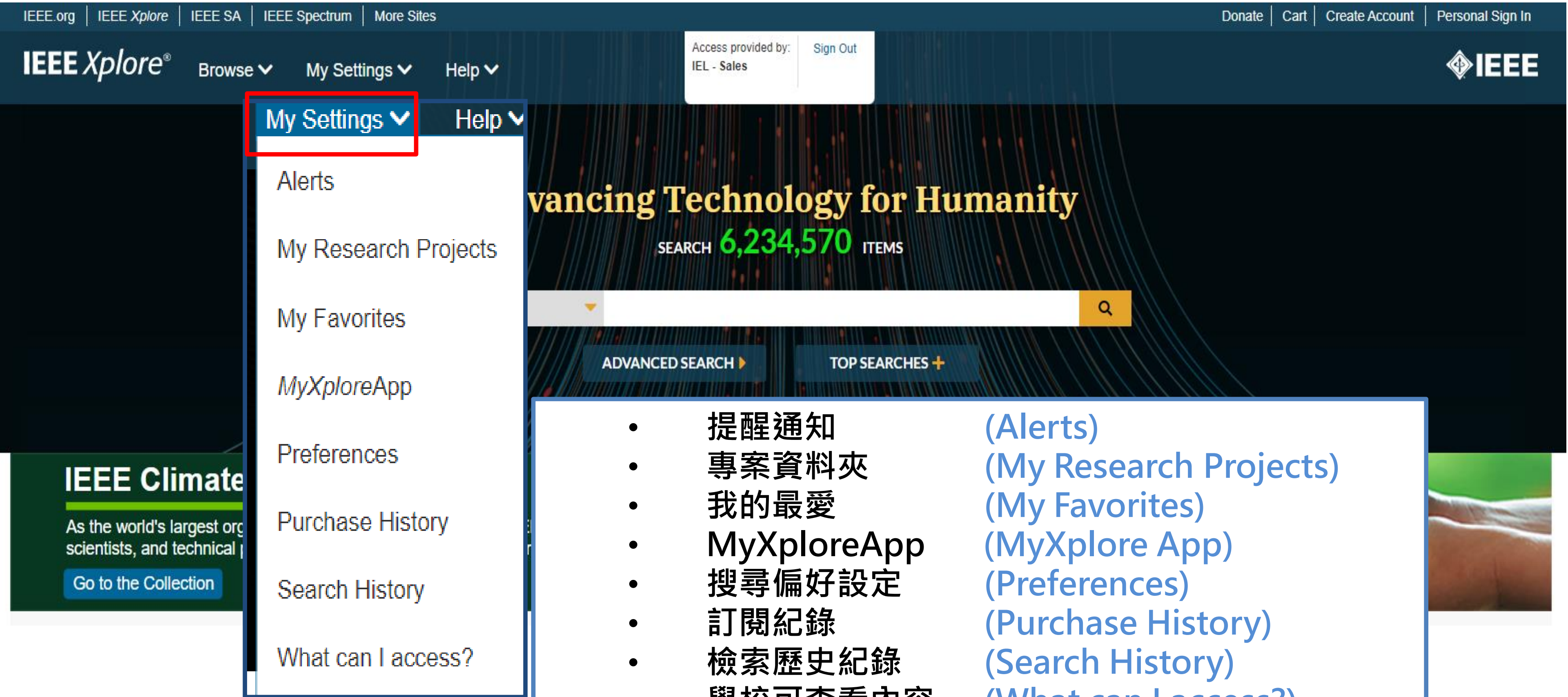

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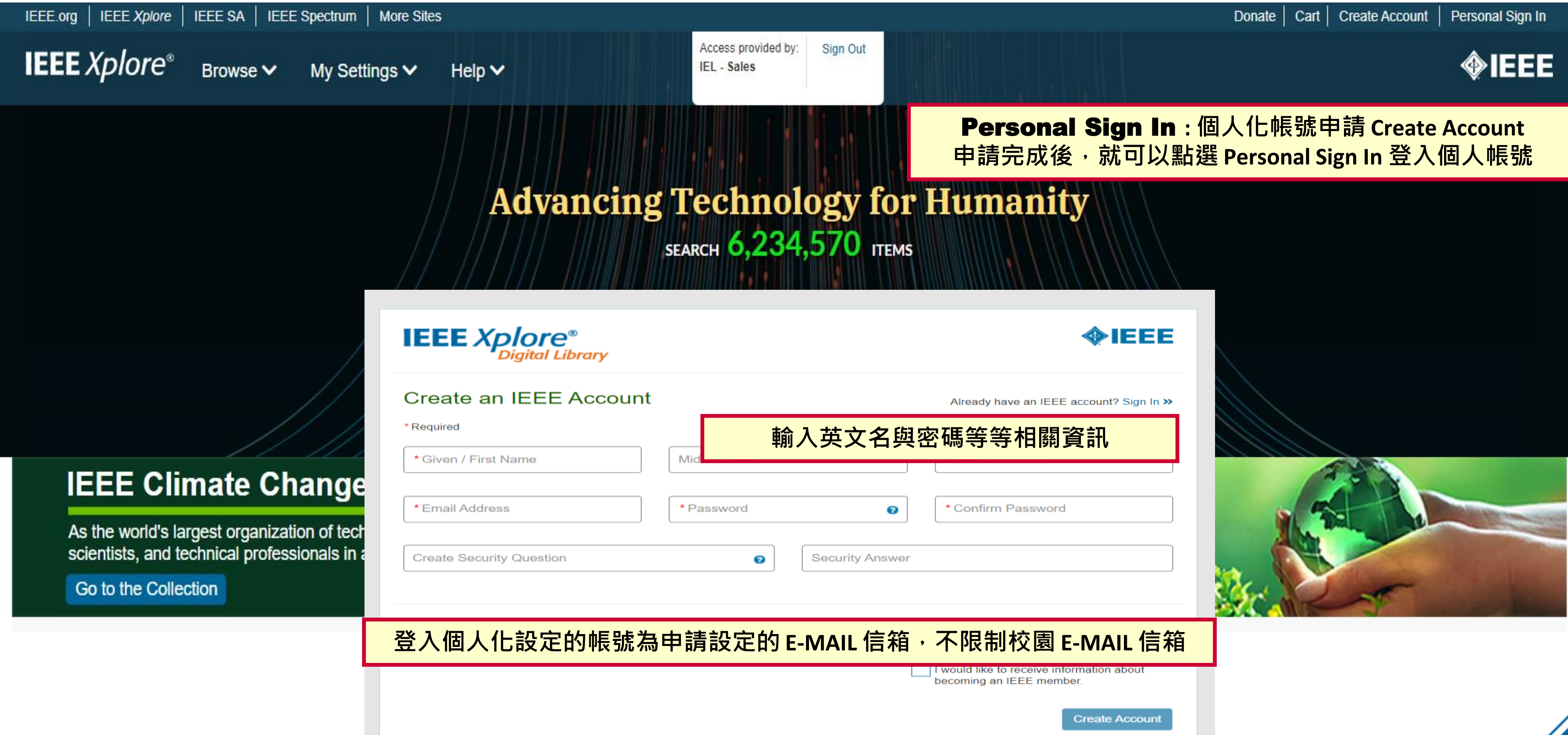

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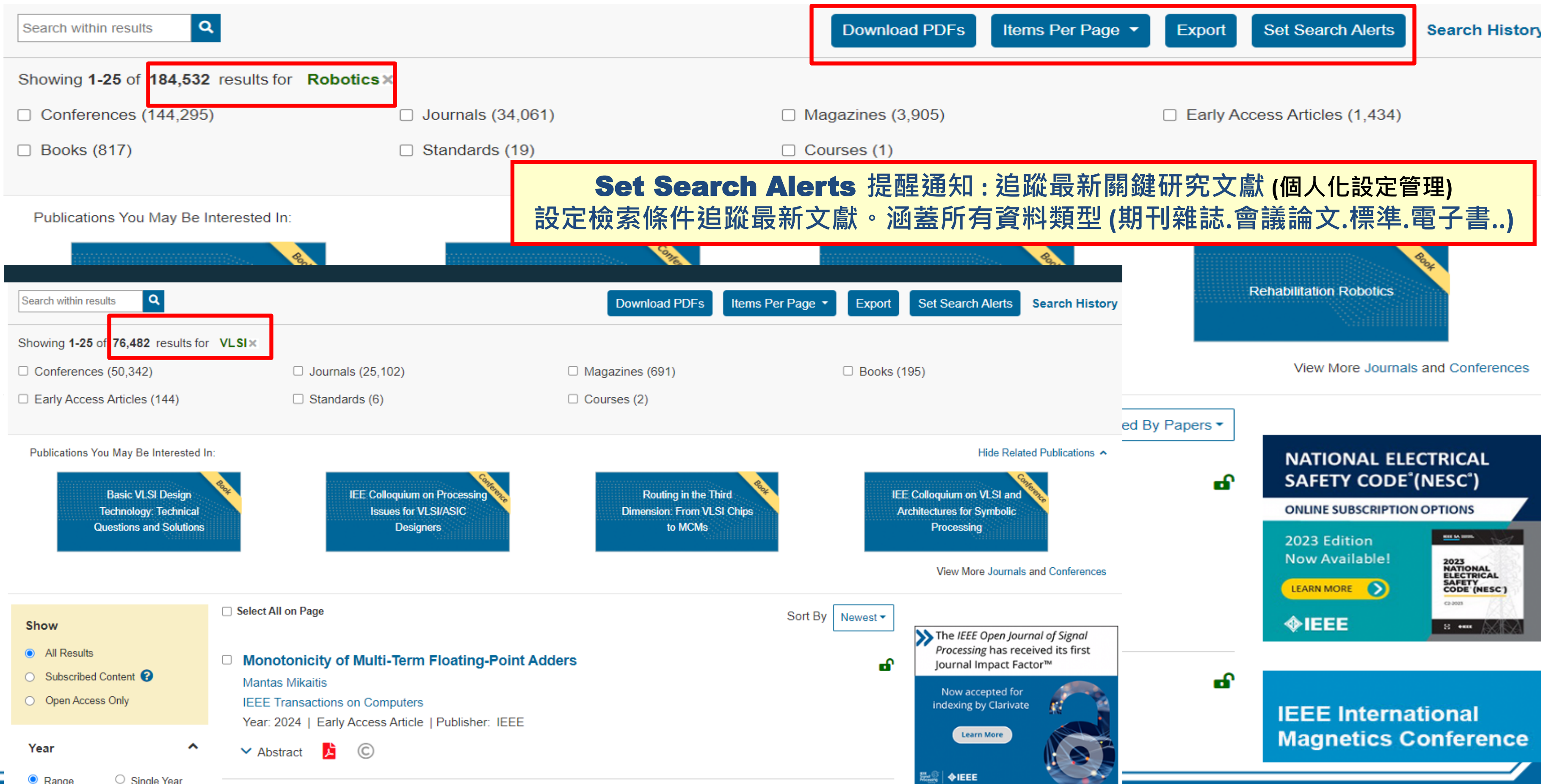

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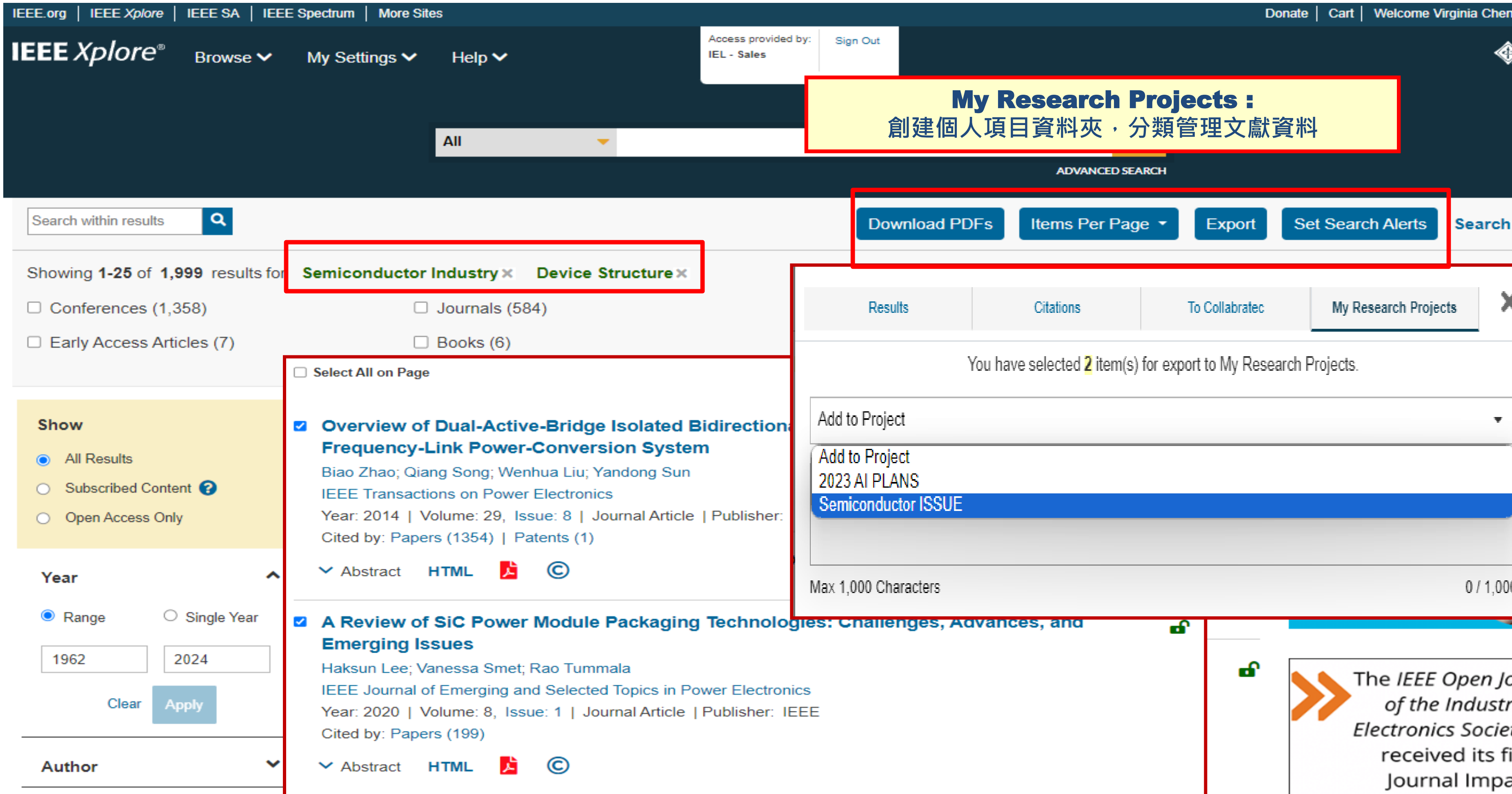

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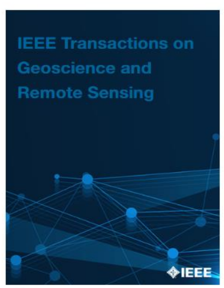

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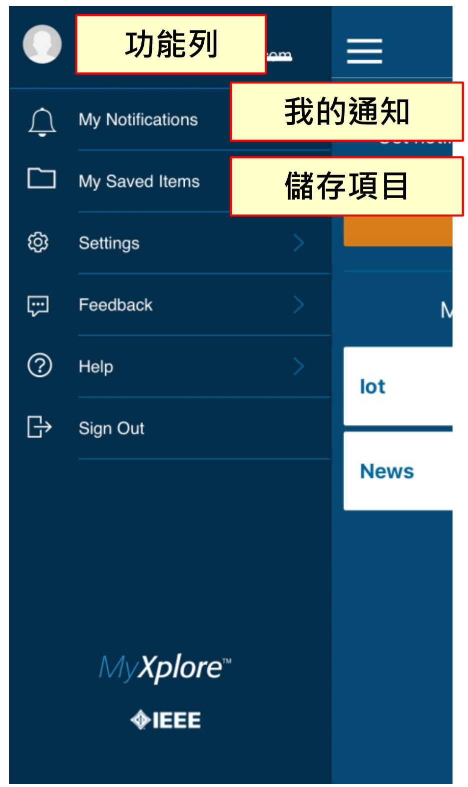

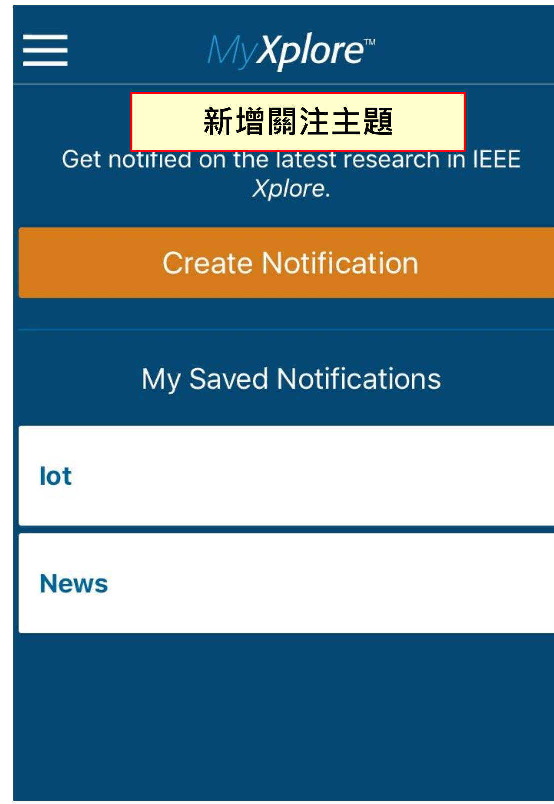

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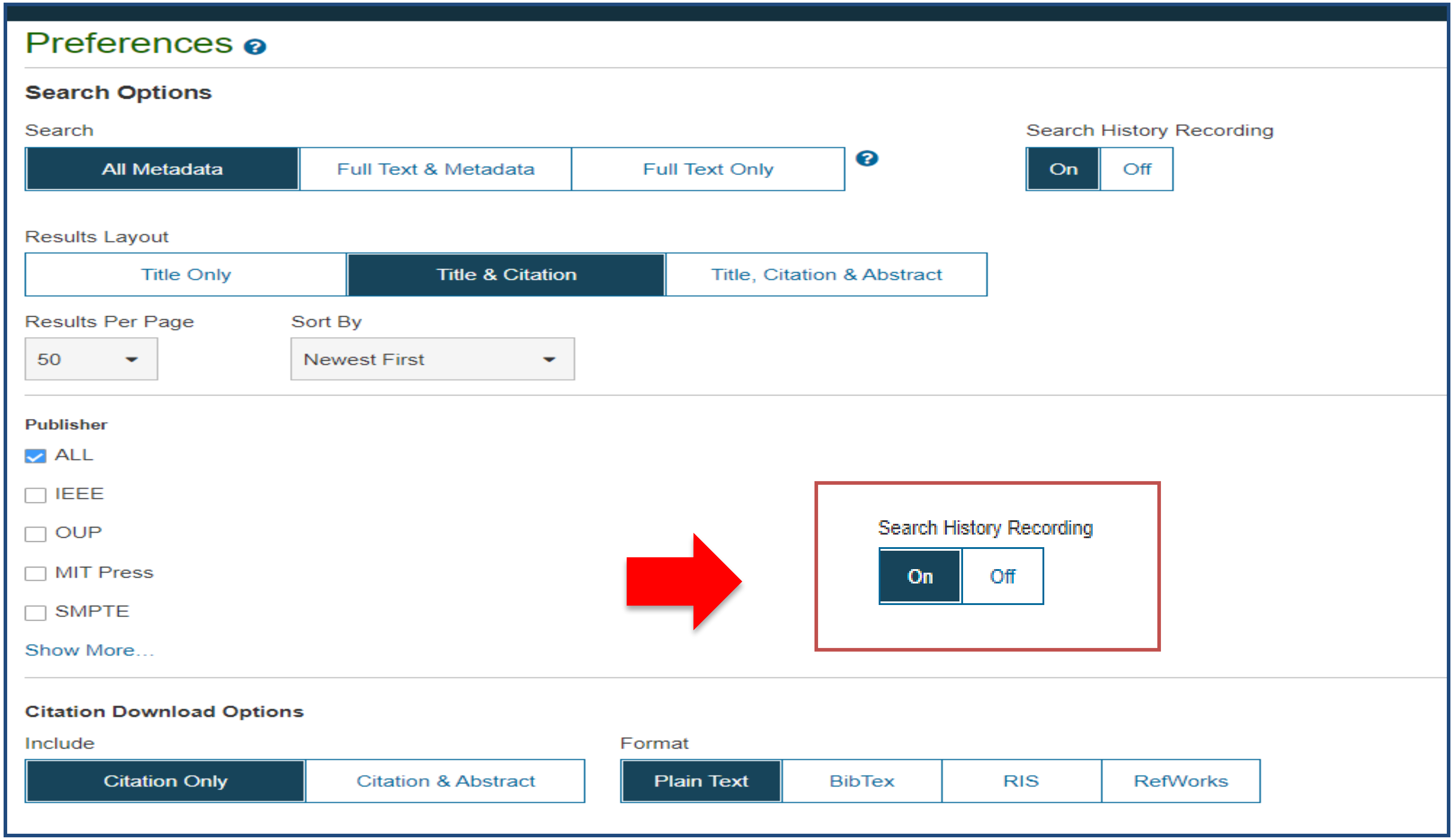

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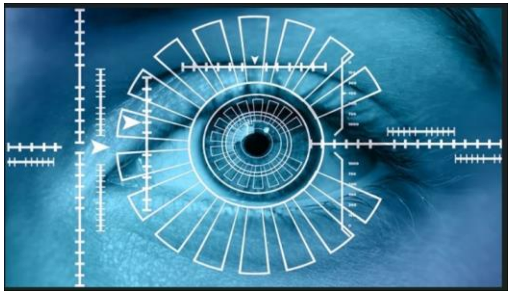

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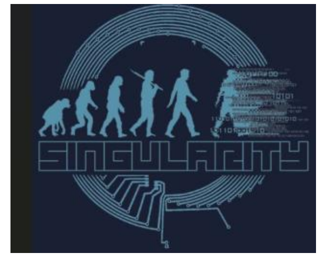

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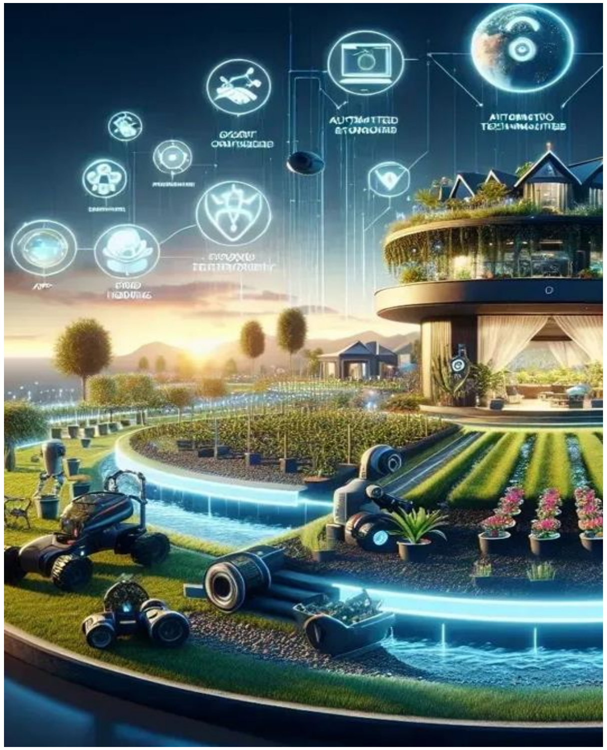

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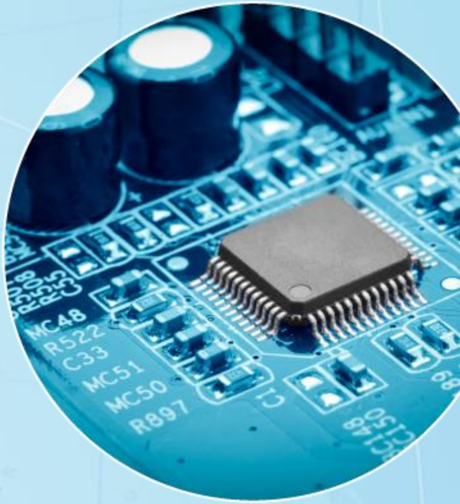

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