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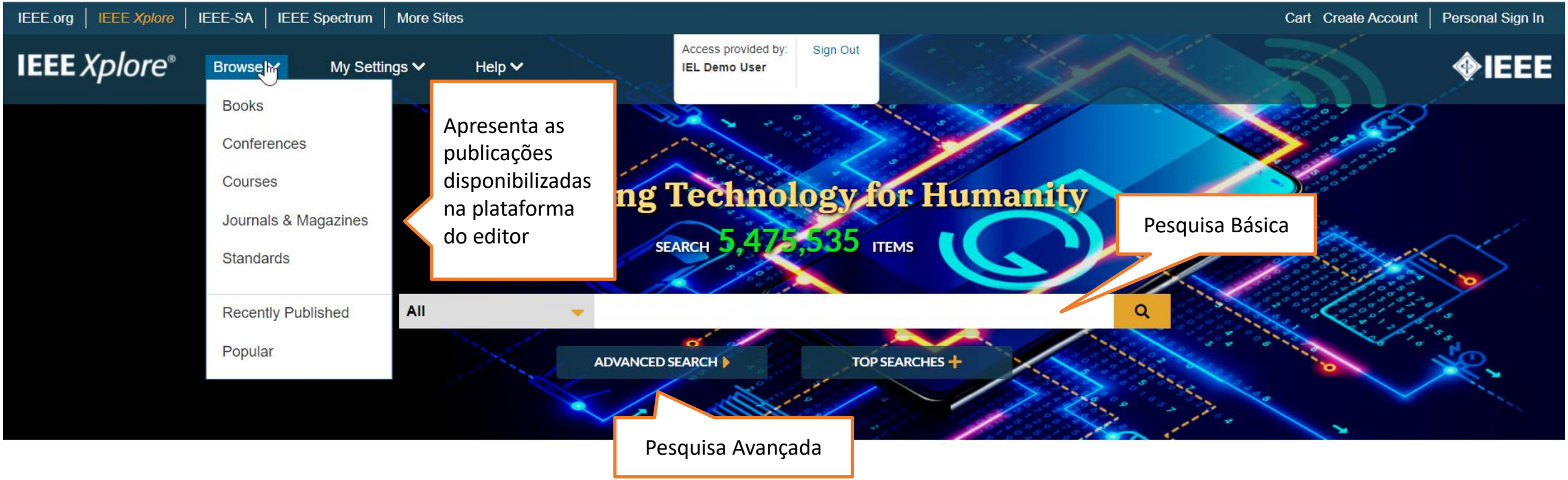

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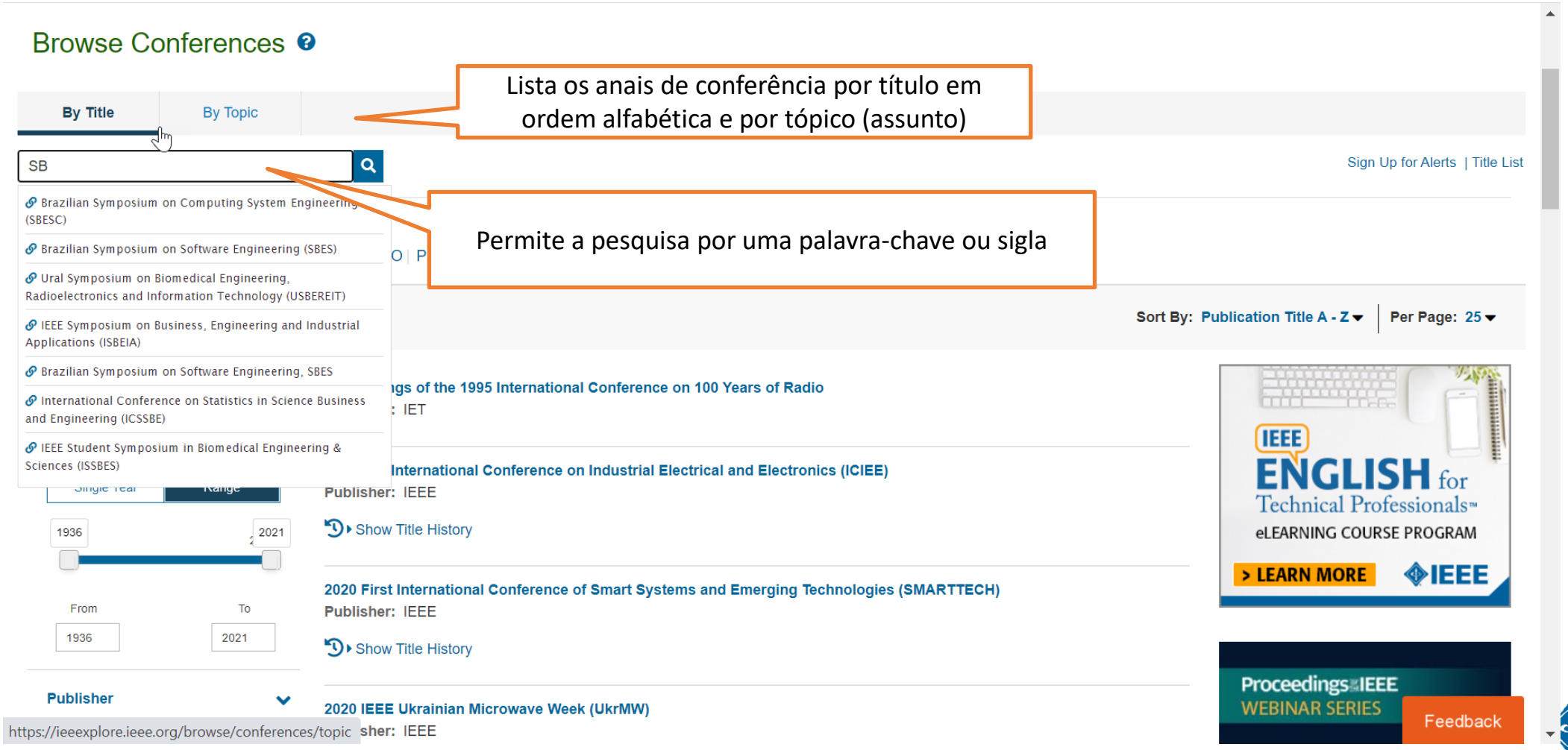

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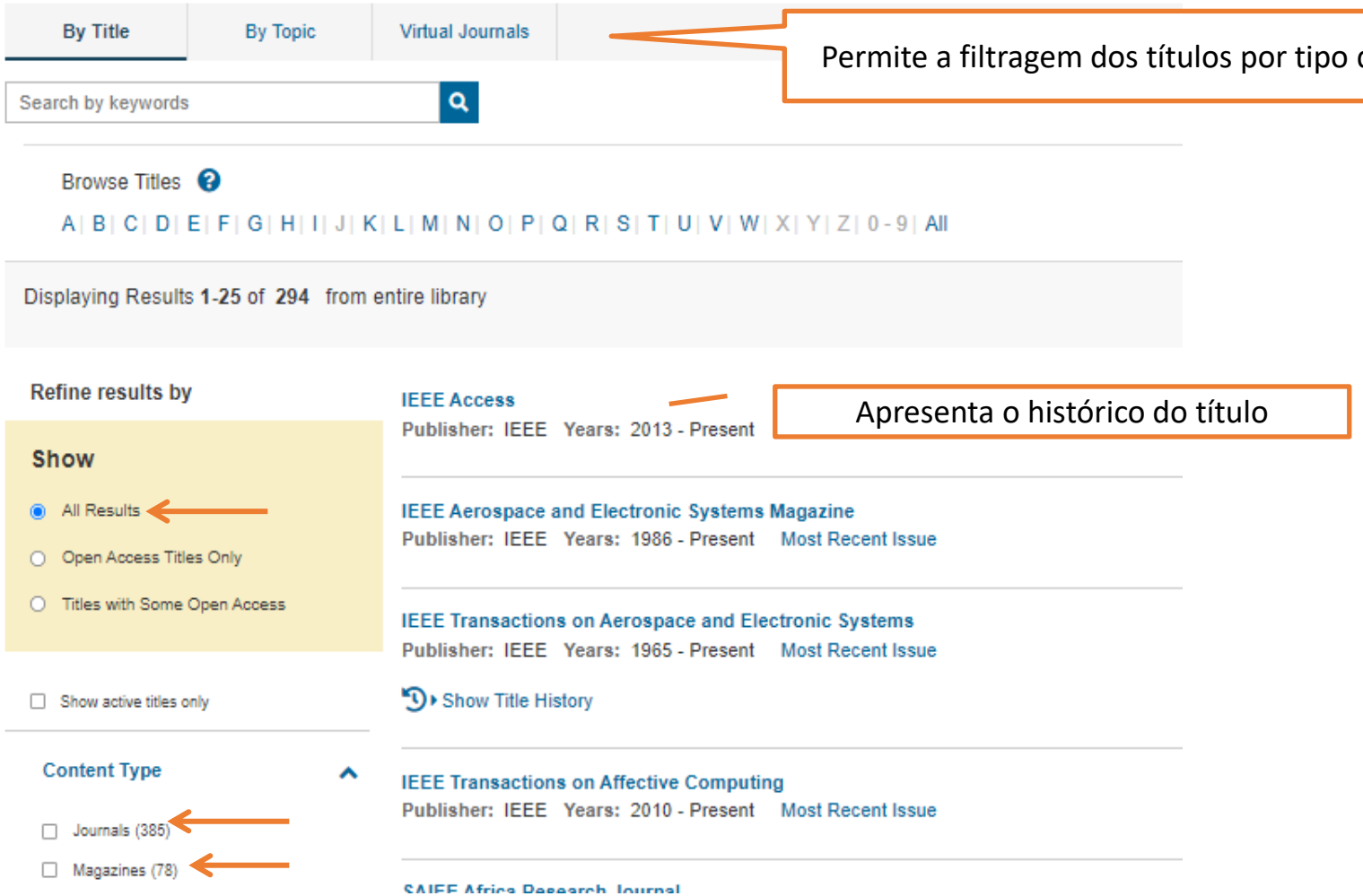

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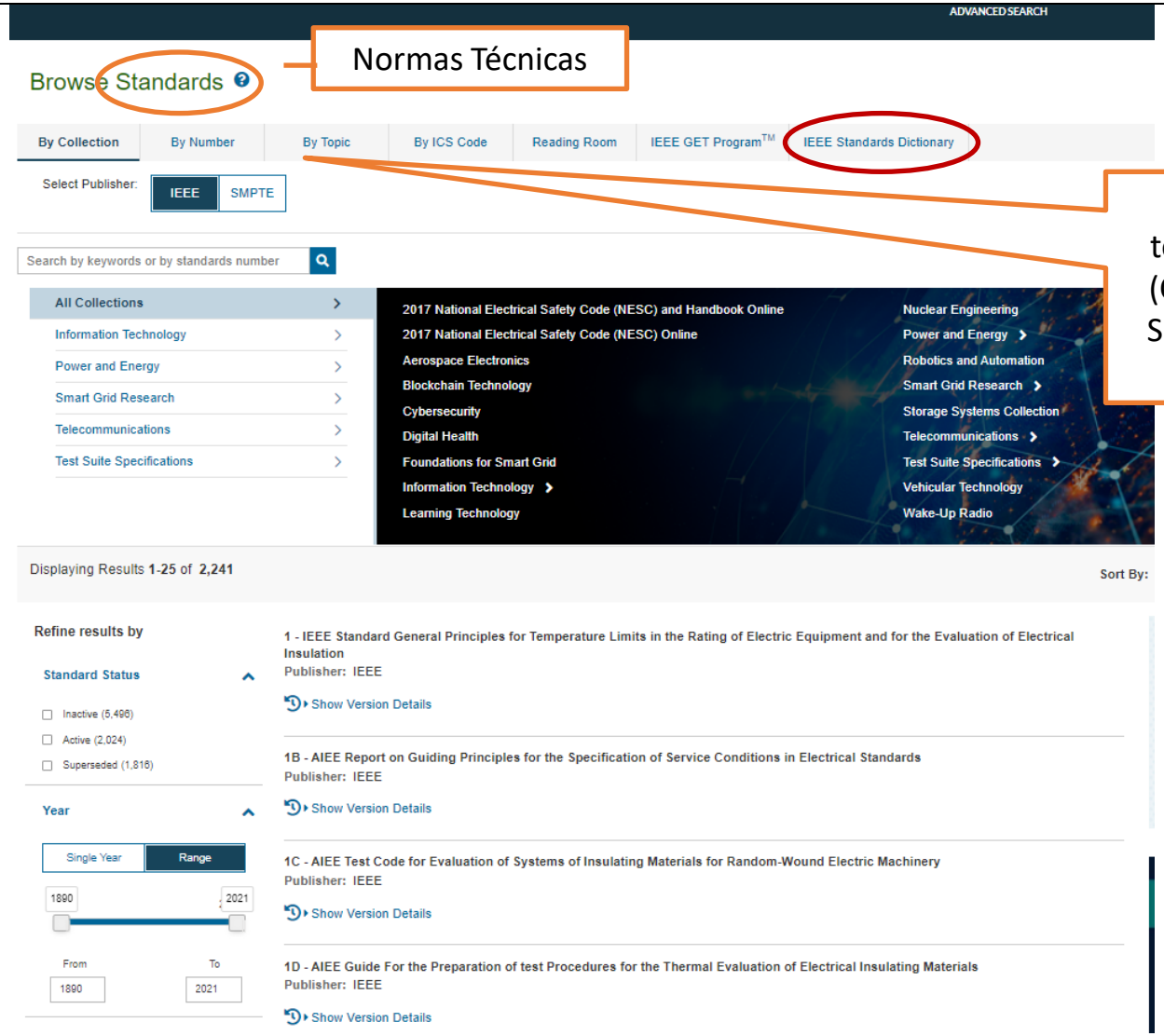

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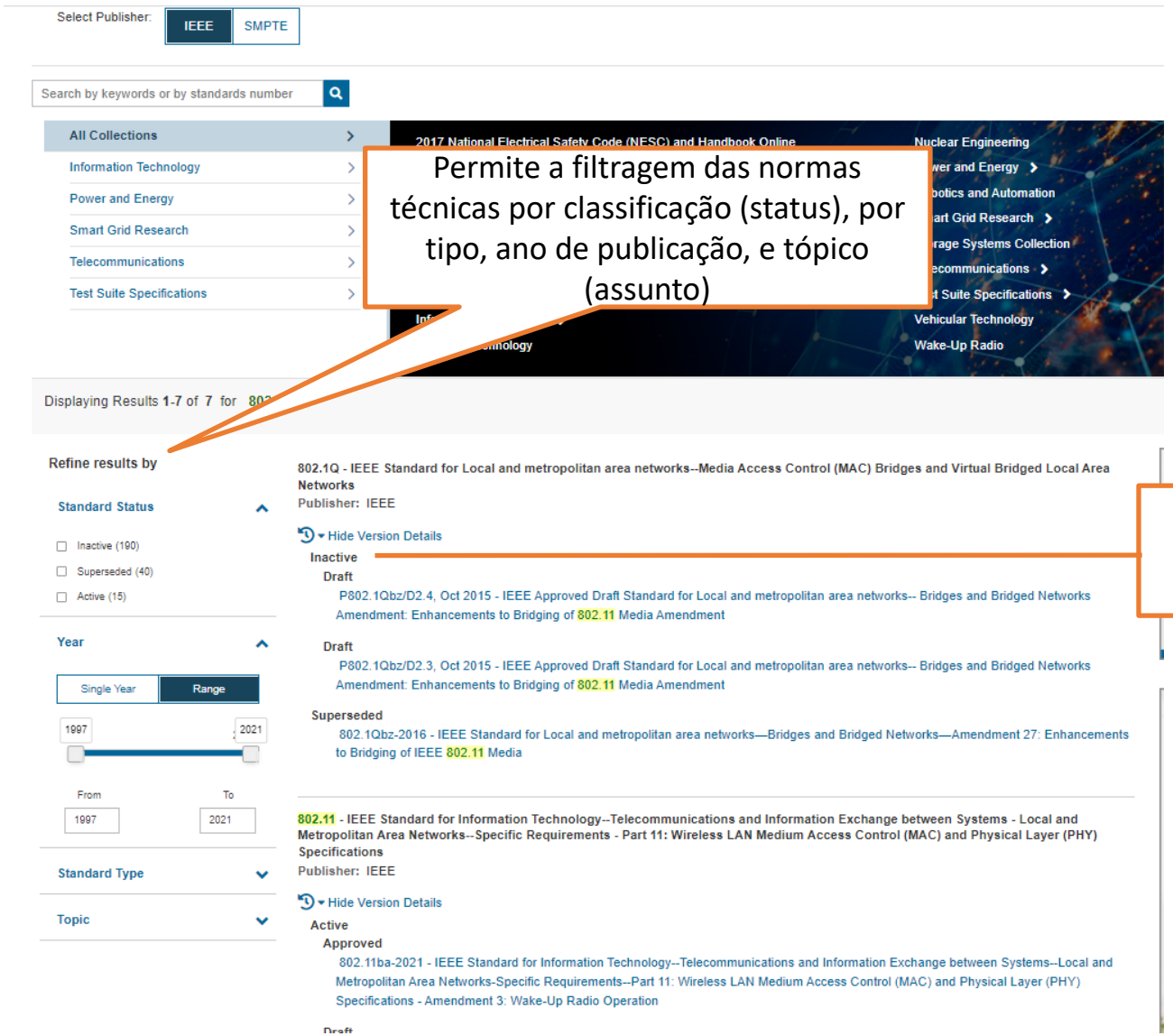

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- A -
- A =
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- A Broad-Based Environment for Test (ABBET)

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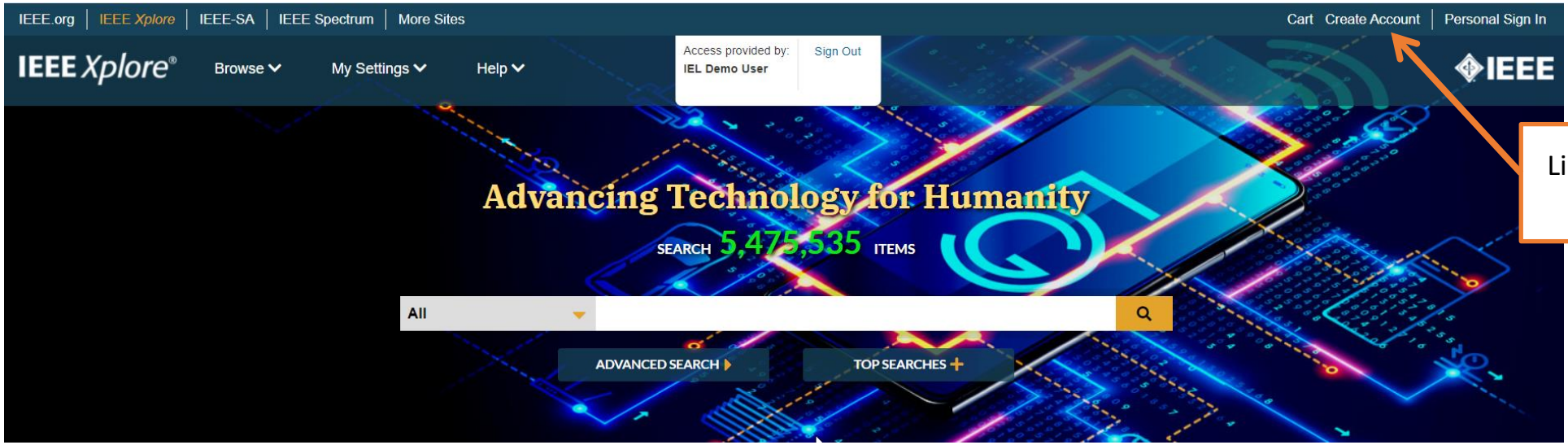

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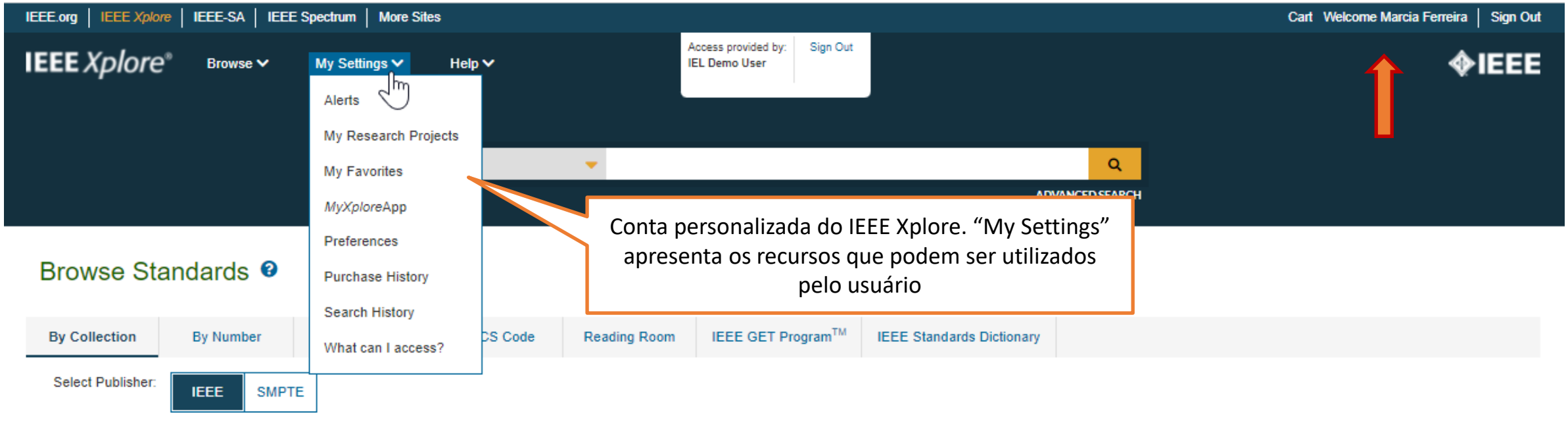

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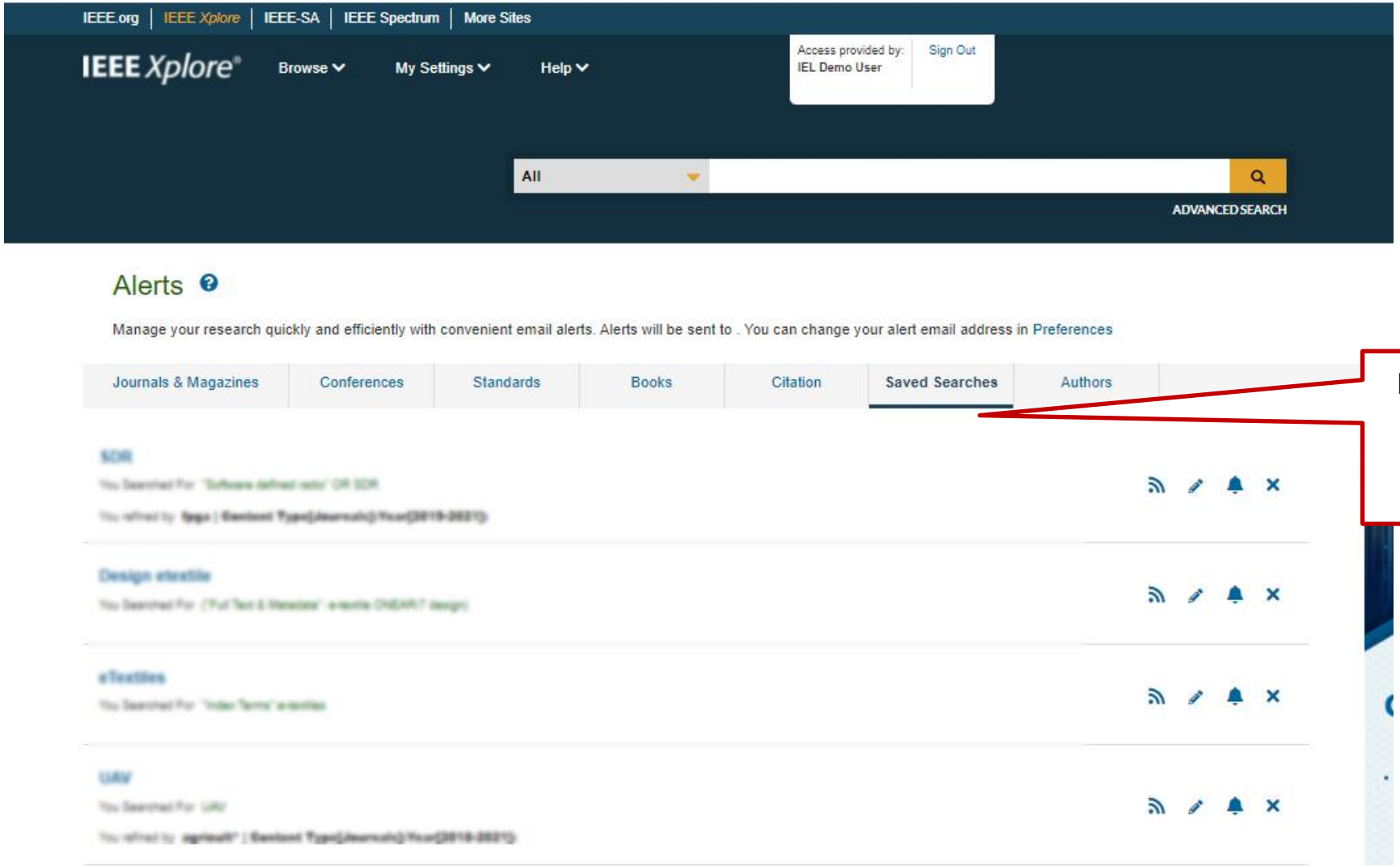

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Affiliation
Federal University of Piauí (UFPI), Brazil;
Instituto de Telecomunicações, Portugal

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Biography
Joel J. P. C. Rodrigues [S'01, M'06, SM'06, F'20] is a professor at the Federal University of Piauí, Brazil; and senior researcher at the Instituto de Telecomunicações, Portugal. He has been professor at the National Institute of Telecommunications, Brazil; University of Beira Interior (UBI), Portugal, and visiting professor at the University of Fortaleza (UNIFOR), Brazil. He received the Academic Title of Aggregated Professor in computer science and engineering from UBI, the Habilitation in computer science and engineering from the University of Haute Alsace, France, a PhD degree in computer science and engineering and an MSc degree from the UBI, and a five-year BSc degree (licentiate) in computer science and engineering from the University of Coimbra, Portugal. His main research interests include IoT and sensor networks, e-health technologies, vehicular communications, and mobile and ubiquitous computing. Prof. Rodrigues is the leader of the Next Generation Networks and Applications (NetGNA) research group (CNPq), an IEEE Distinguished

Publications 475 | **Citations** 5,486

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Co-Authors:

Diego A. A. Santos
Lucas R. Abbade
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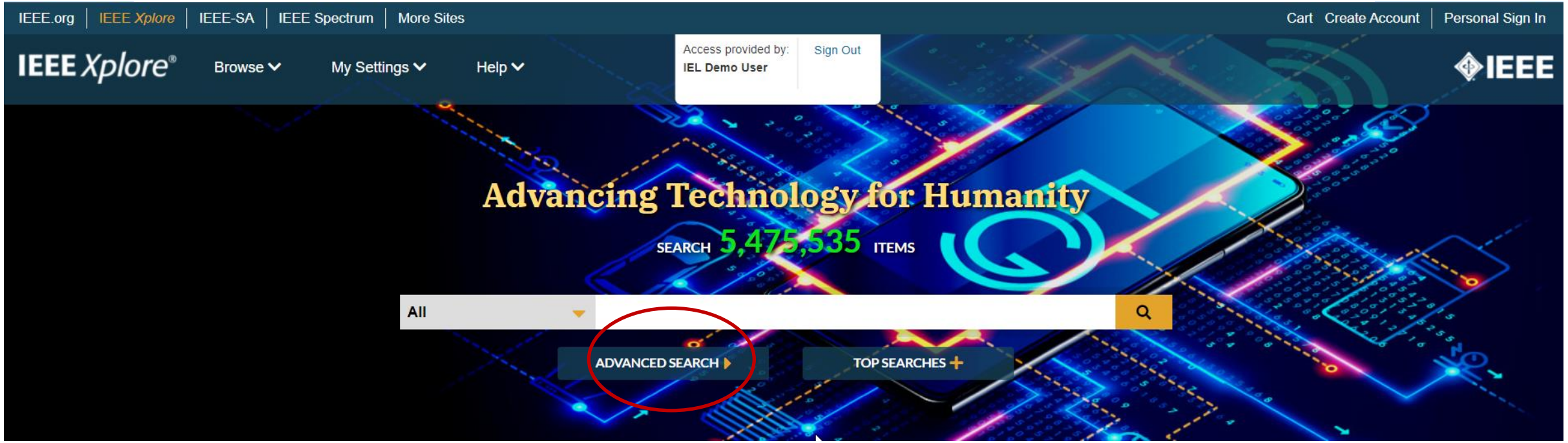

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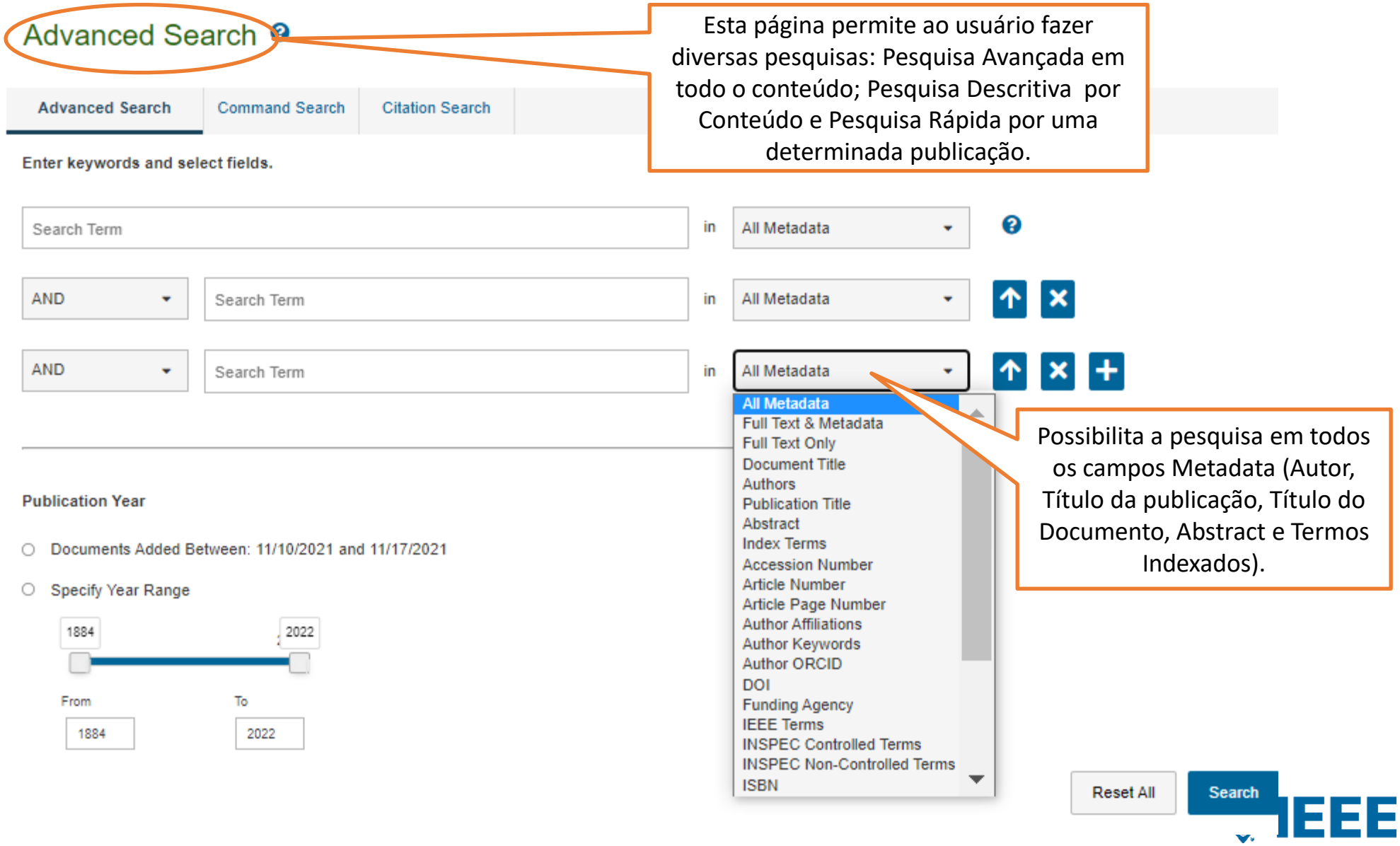

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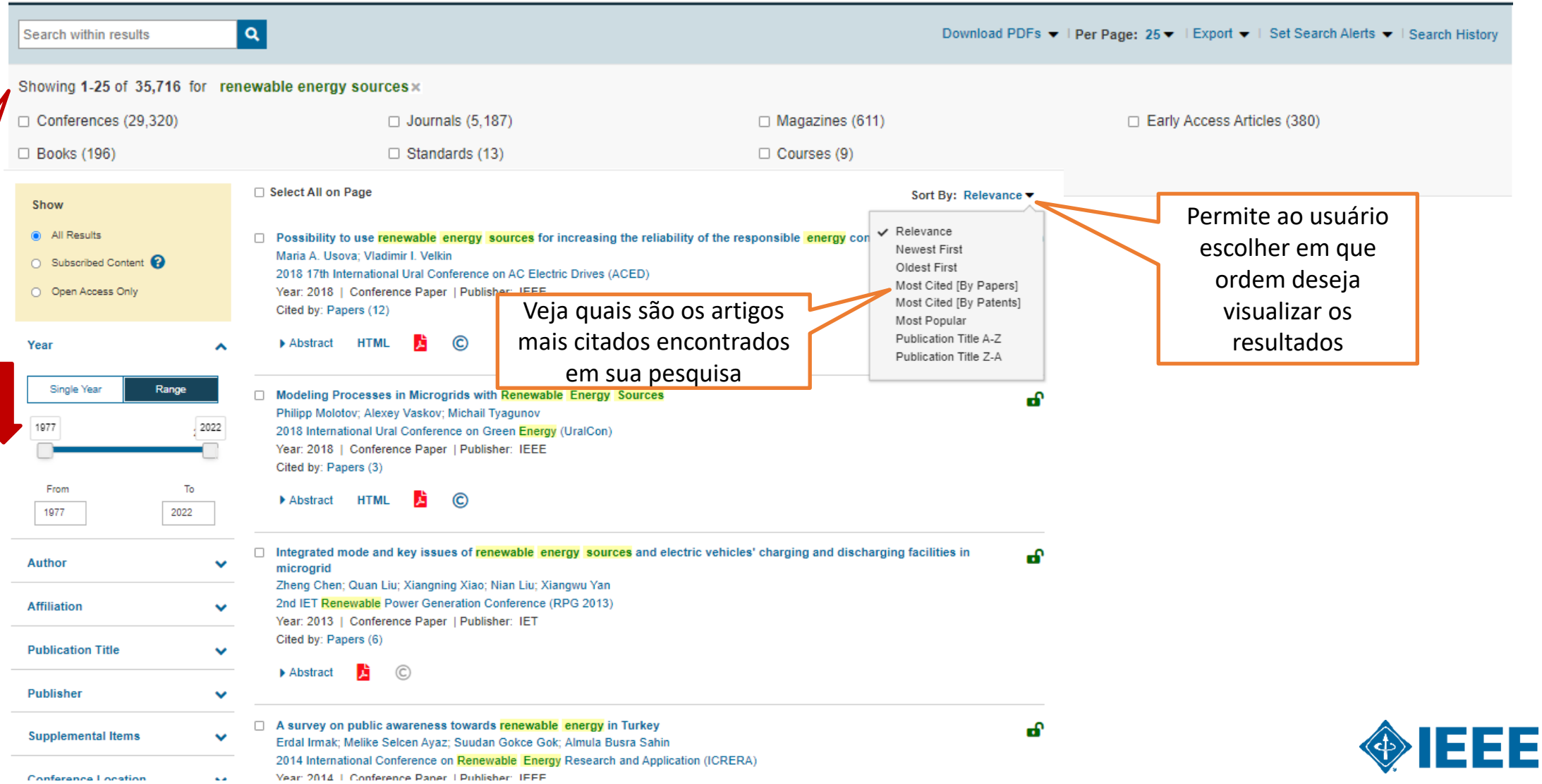

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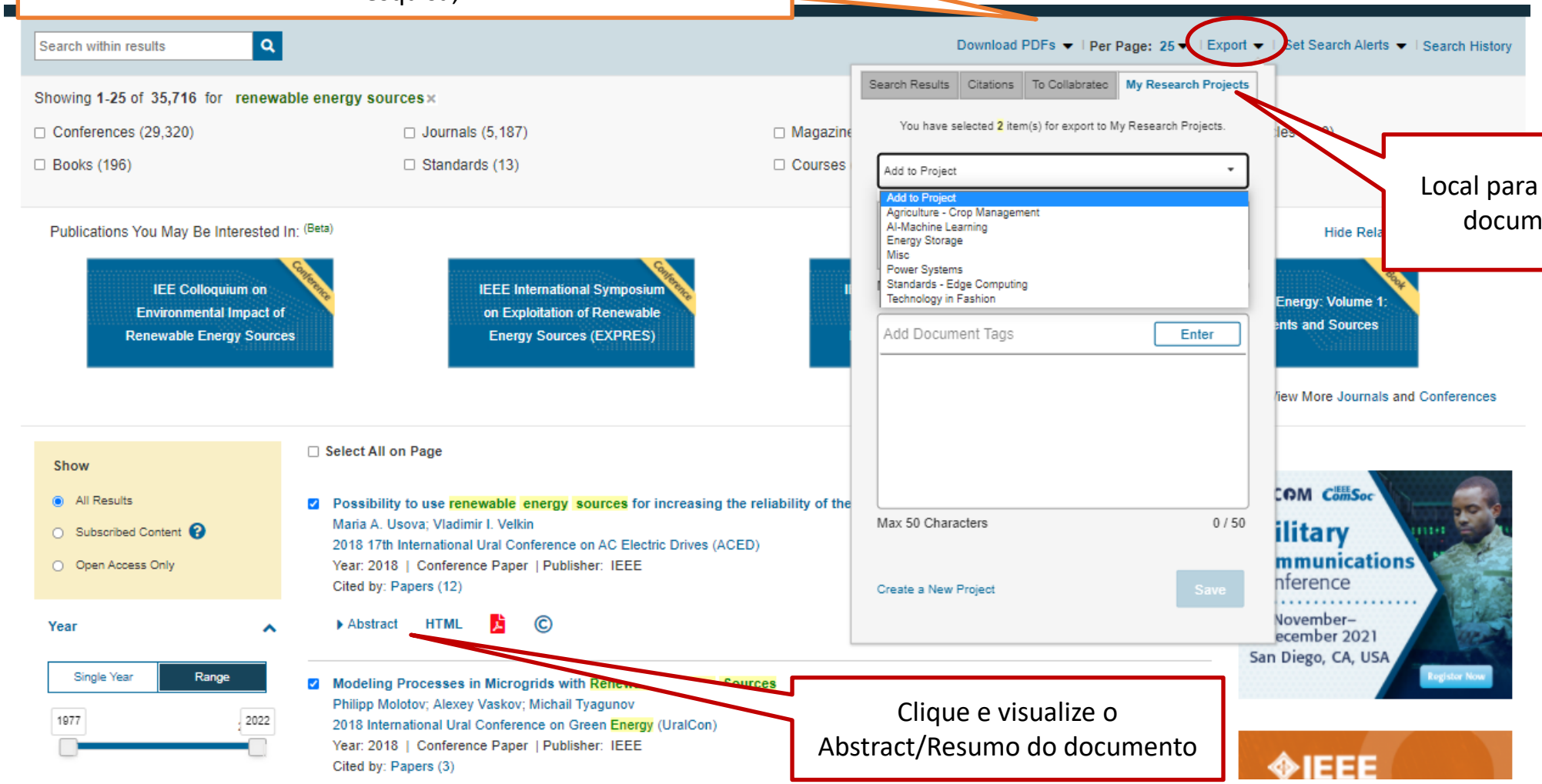

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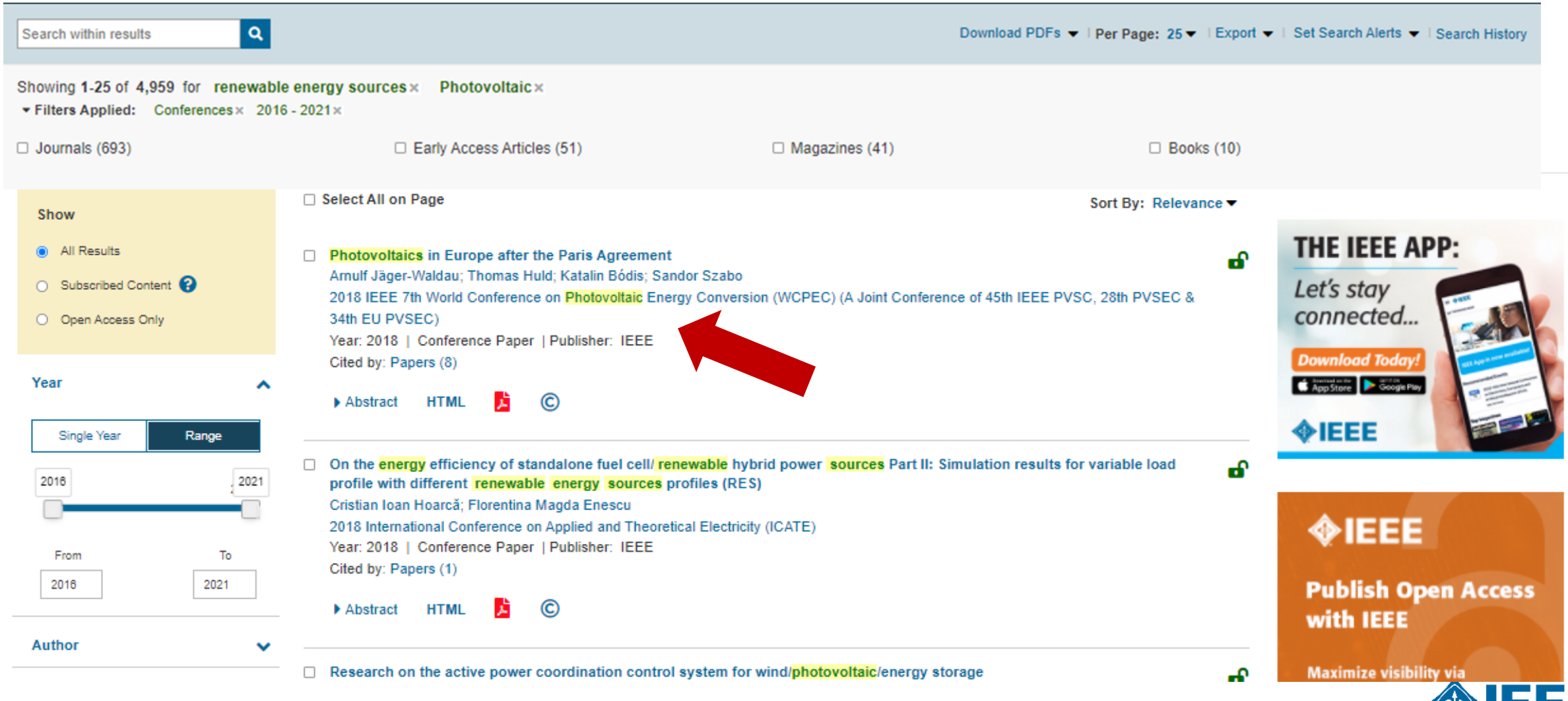

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Abstract:
Over the last decade, the utilisation of renewable energy in the electricity sector, especially from solar, is growing a the rest of the economy in Europe and world-wide. The significant cost reduction of solar PV power during this time and their zero fuel cost have increased its attractiveness. However, the growth rate in the European Union is declining since 2011. So far, the European Union is the largest economy with a legally binding target to reach 27% of its energy consumption from renewable energy sources by 2030 and efforts to increase it to 35% are underway. In 2017 about 4% of the Union's electricity demand was covered by solar PV, but in order to reach the 2030 target at least a tripling of this contribution is needed.

Published in: 2018 IEEE 7th World Conference on Photovoltaic Energy Conversion (WCPEC) (A Joint Conference of 45th IEEE PVSC, 28th PVSEC & 34th EU PVSEC)

Date of Conference: 10-15 June 2018

Date Added to IEEE *Xplore*: 29 November 2018

ISBN Information:

t on Demand(PoD) ISSN: 0160-8371

INSPEC Accession Number: 18288488

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1. Darshana Prasad Wadduwage, Udaya D. Annakkage, Krish Narendra, "Identification of dominant low-frequency modes in ring-down oscillations using multiple Prony models", *Generation Transmission & Distribution IET*, vol. 9, no. 15, pp. 2206-2214, 2015.
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2. Tao Jiang, Haoyu Yuan, Hongjie Jia, Ning Zhou, Fangxing Li, "Stochastic subspace identification-based approach for tracking inter-area oscillatory modes in bulk power system utilising synchrophasor measurements", *Generation Transmission & Distribution IET*, vol. 9, no. 15, pp. 2409-2418, 2015.
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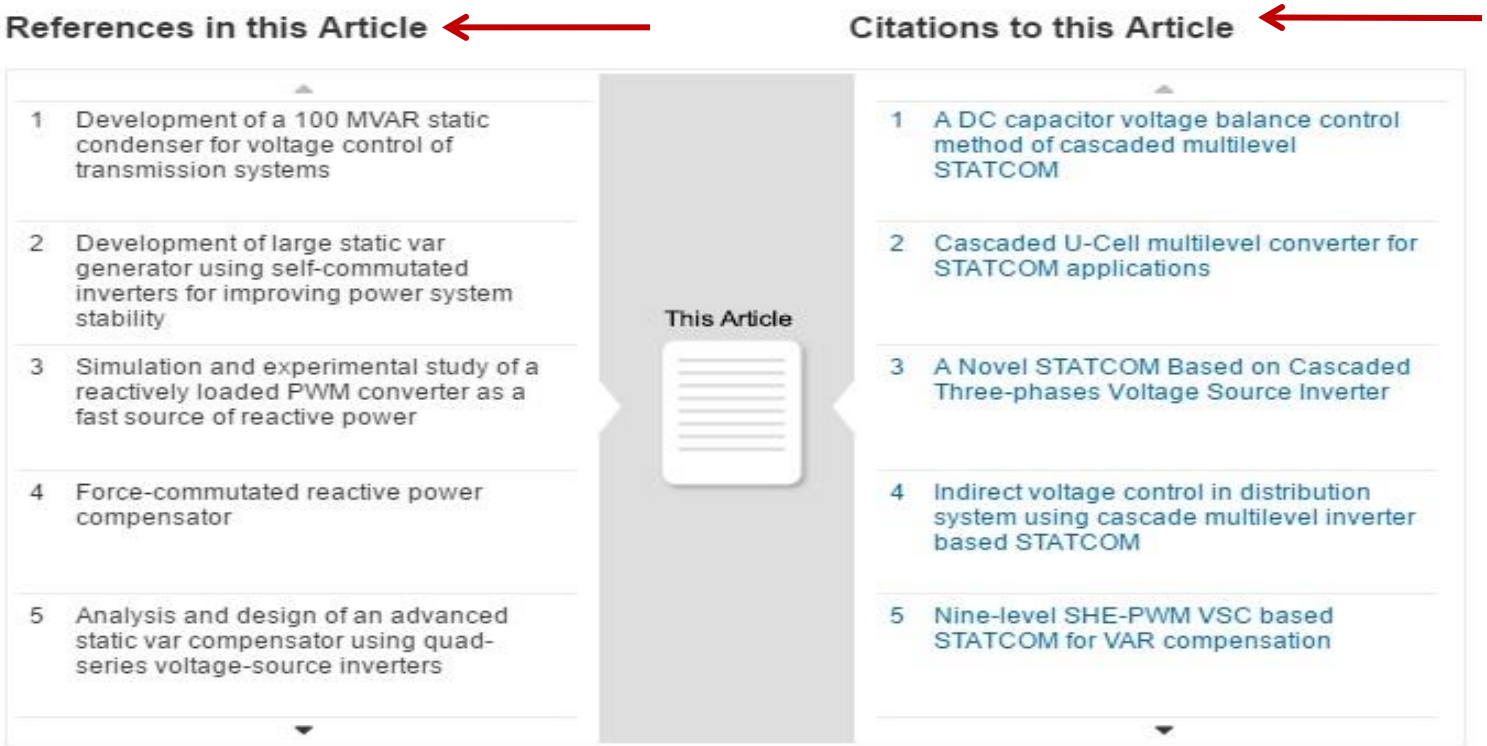

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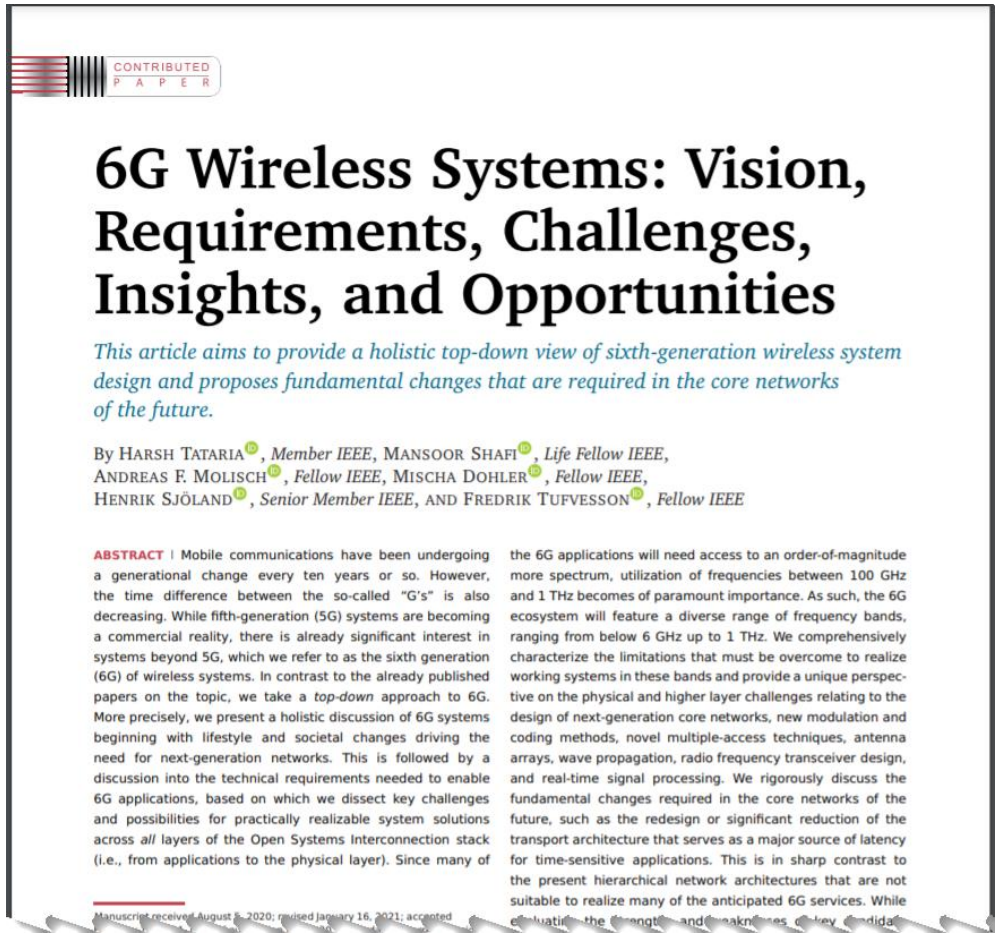

CONTRIBUTED PAPER

6G Wireless Systems: Vision, Requirements, Challenges, Insights, and Opportunities

This article aims to provide a holistic top-down view of sixth-generation wireless system design and proposes fundamental changes that are required in the core networks of the future.

By Harsh Tataria, *Member IEEE*, Mansoor Shafi, *Life Fellow IEEE*, Andreas F. Molisch, *Fellow IEEE*, Mischa Dohler, *Fellow IEEE*, Henrik Sjöland, *Senior Member IEEE*, and Fredrik Tufvesson, *Fellow IEEE*

ABSTRACT | Mobile communications have been undergoing a generational change every ten years or so. However, the time difference between the so-called "G's" is also decreasing. While fifth-generation (5G) systems are becoming a commercial reality, there is already significant interest in systems beyond 5G, which we refer to as the sixth generation (6G) of wireless systems. In contrast to the already published papers on the topic, we take a *top-down* approach to 6G. More precisely, we present a holistic discussion of 6G systems beginning with lifestyle and societal changes driving the need for next-generation networks. This is followed by a discussion into the technical requirements needed to enable 6G applications, based on which we dissect key challenges and possibilities for practically realizable system solutions across *all* layers of the Open Systems Interconnection stack (i.e., from applications to the physical layer). Since many of the 6G applications will need access to an order-of-magnitude more spectrum, utilization of frequencies between 100 GHz and 1 THz becomes of paramount importance. As such, the 6G ecosystem will feature a diverse range of frequency bands, ranging from below 6 GHz up to 1 THz. We comprehensively characterize the limitations that must be overcome to realize working systems in these bands and provide a unique perspective on the physical and higher layer challenges relating to the design of next-generation core networks, new modulation and coding methods, novel multiple-access techniques, antenna arrays, wave propagation, radio frequency transceiver design, and real-time signal processing. We rigorously discuss the fundamental changes required in the core networks of the future, such as the redesign or significant reduction of the transport architecture that serves as a major source of latency for time-sensitive applications. This is in sharp contrast to the present hierarchical network architectures that are not suitable to realize many of the anticipated 6G services. While

Manuscript received August 5, 2020; revised January 16, 2021; accepted

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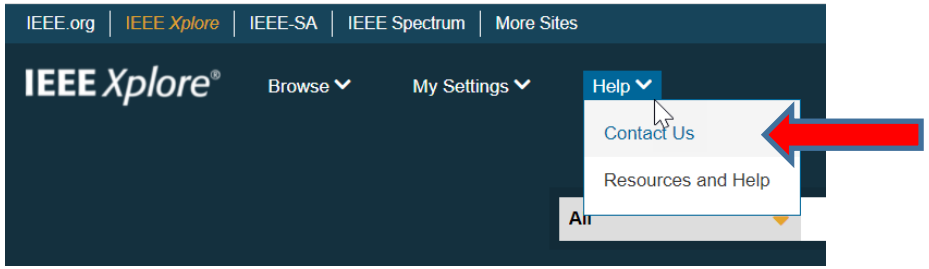

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