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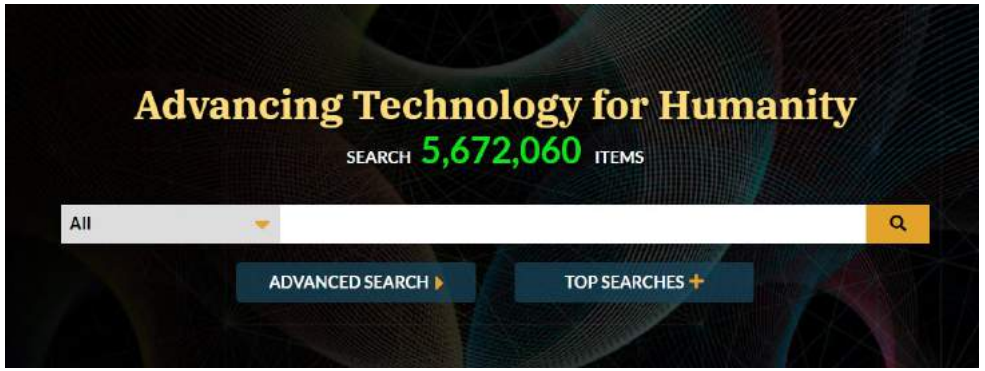

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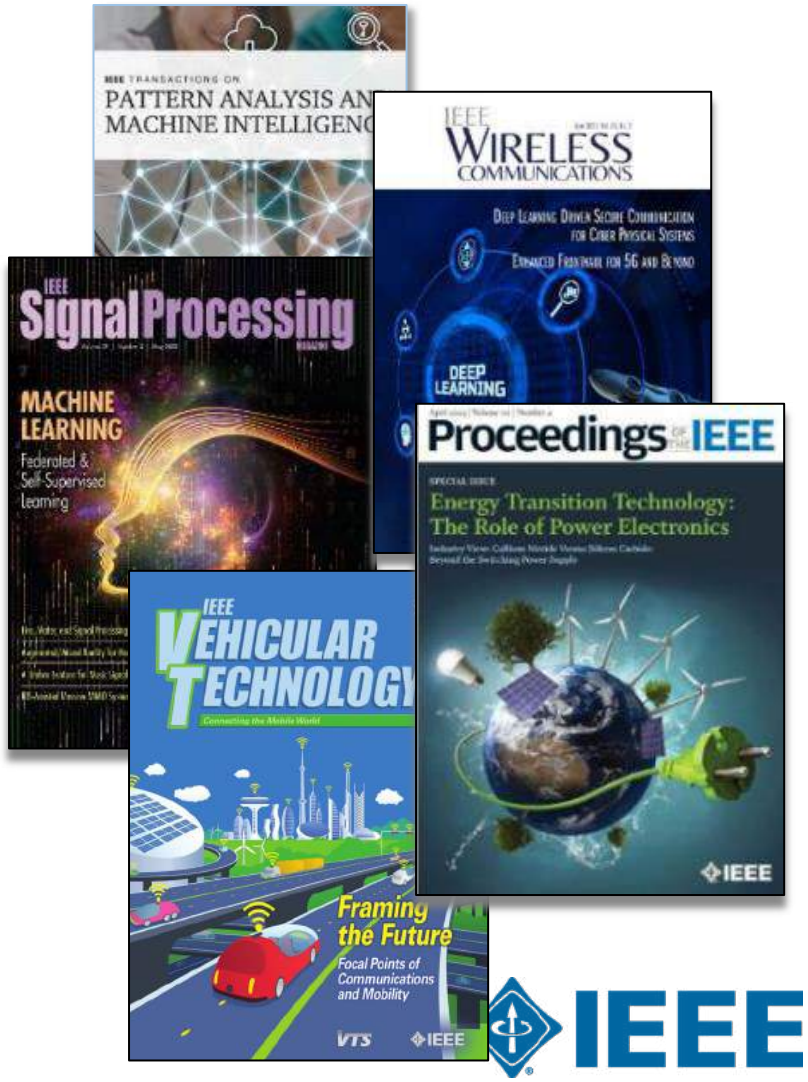

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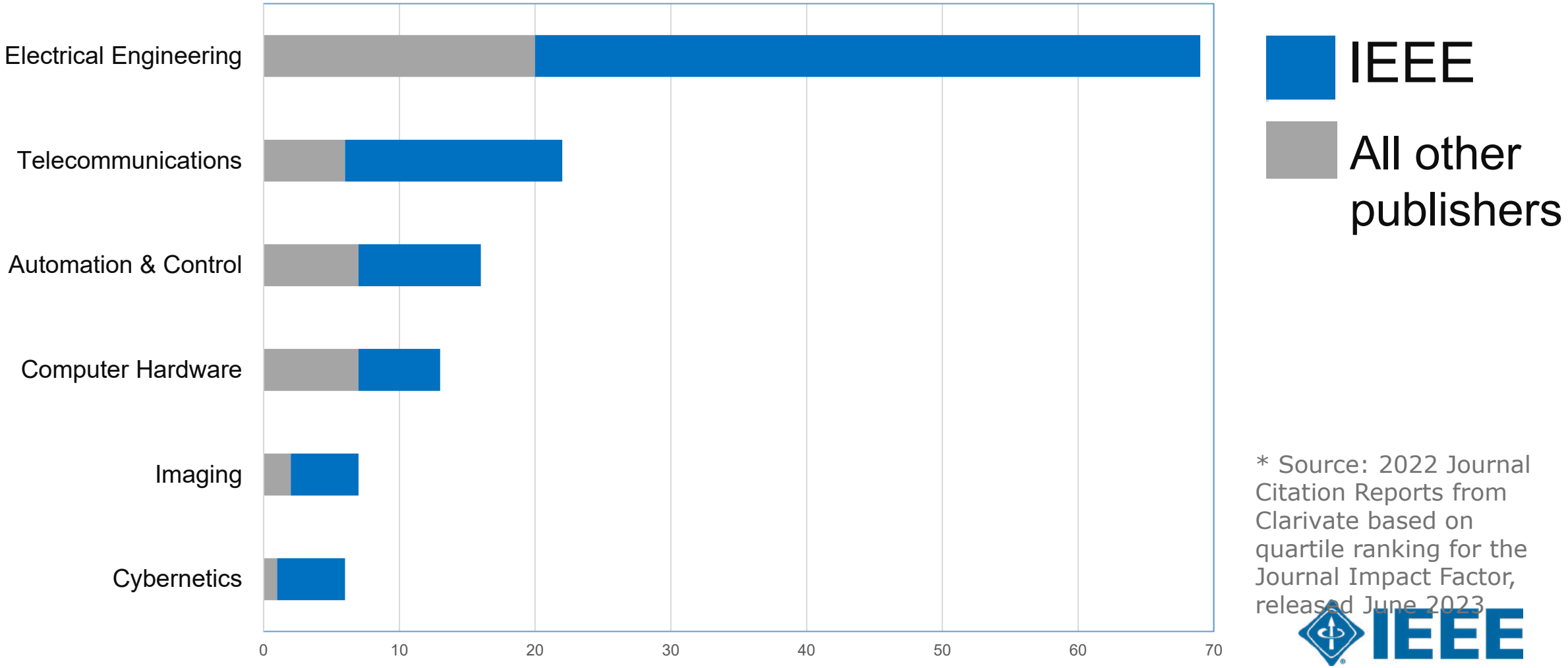

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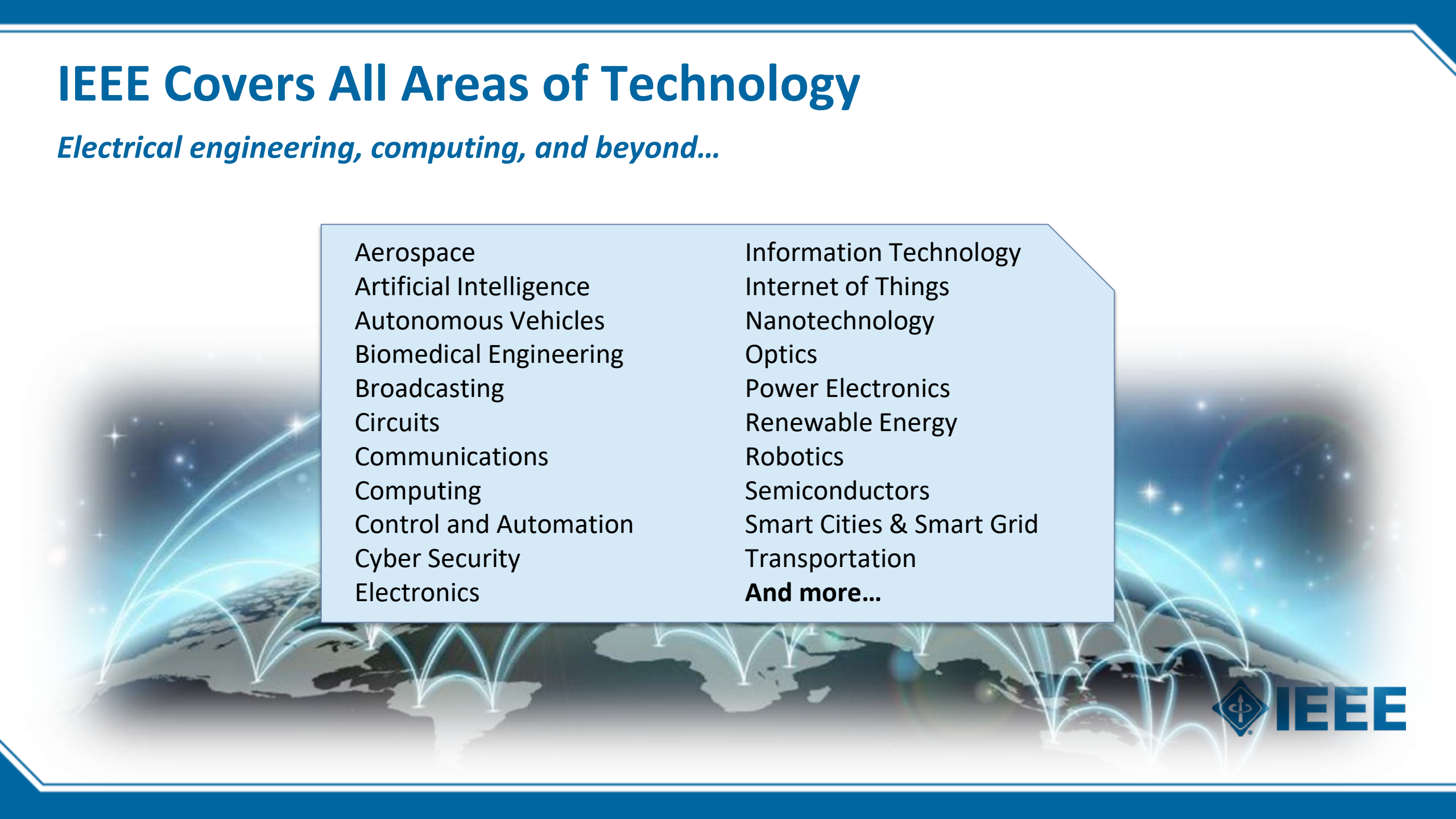

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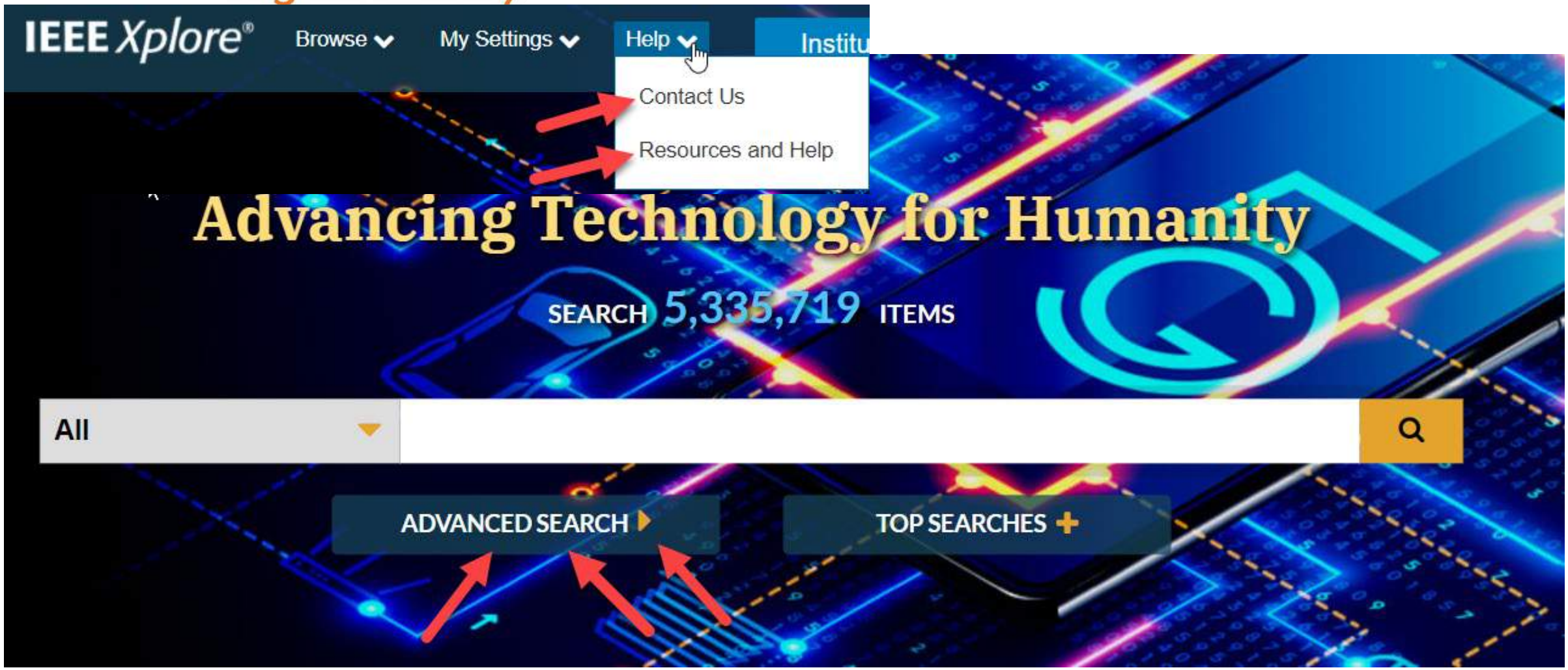

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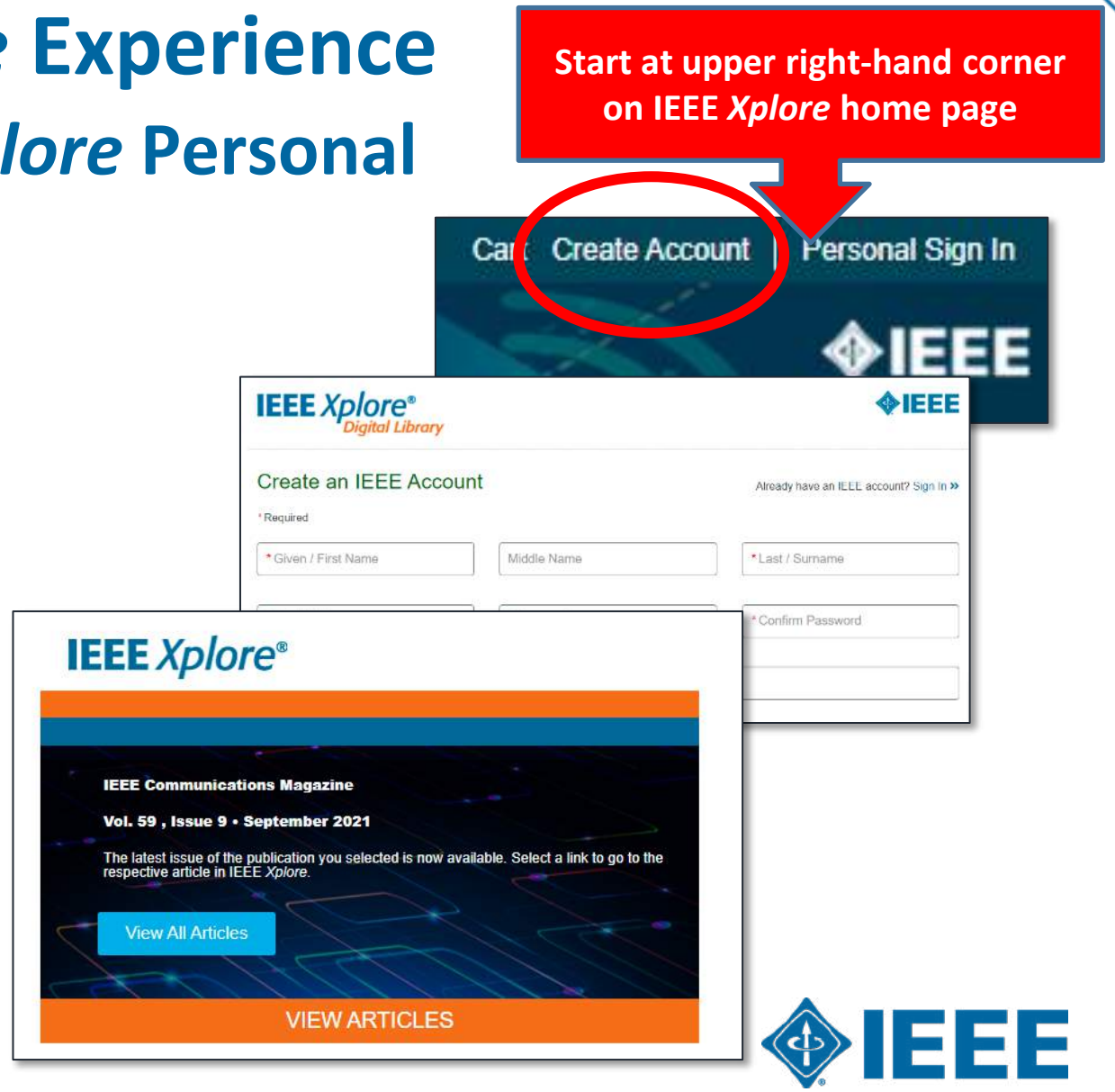

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	Basic Search **Metadata**	Advanced Search Metadata and FT	Command Search Metadata and FT
Boolean Operators (AND/OR/NOT)	Yes	Yes (currently not within single search box)	Yes
Proximity Operators (NEAR/ONEAR)	Yes	No	Yes
Field Searching	(Yes)	Yes	Yes

	Character	Description
Wildcards	* ?	- Asterisk (*) represents a single character, multiple characters, or no characters - "?" character supported for single Wildcard - Wildcards CAN be used within phrased searches **"medical imag*"** - Wildcards CAN be used with proximity operators **implant* NEAR/5 cardiac**
Phrase	"..."	- Use **ASCII** code Double quotes **"medical imaging"** for an exact phrase - Stemmed terms not included in phrased searches

Advanced Search Enhancements

Searchers can now type Boolean operators AND OR NOT into search boxes

Any search string typed into a single search box will be nested (ie IEEE *Xplore* will automatically place parens around the search string)

Order of precedence:
1. NOT
2. AND
3. OR

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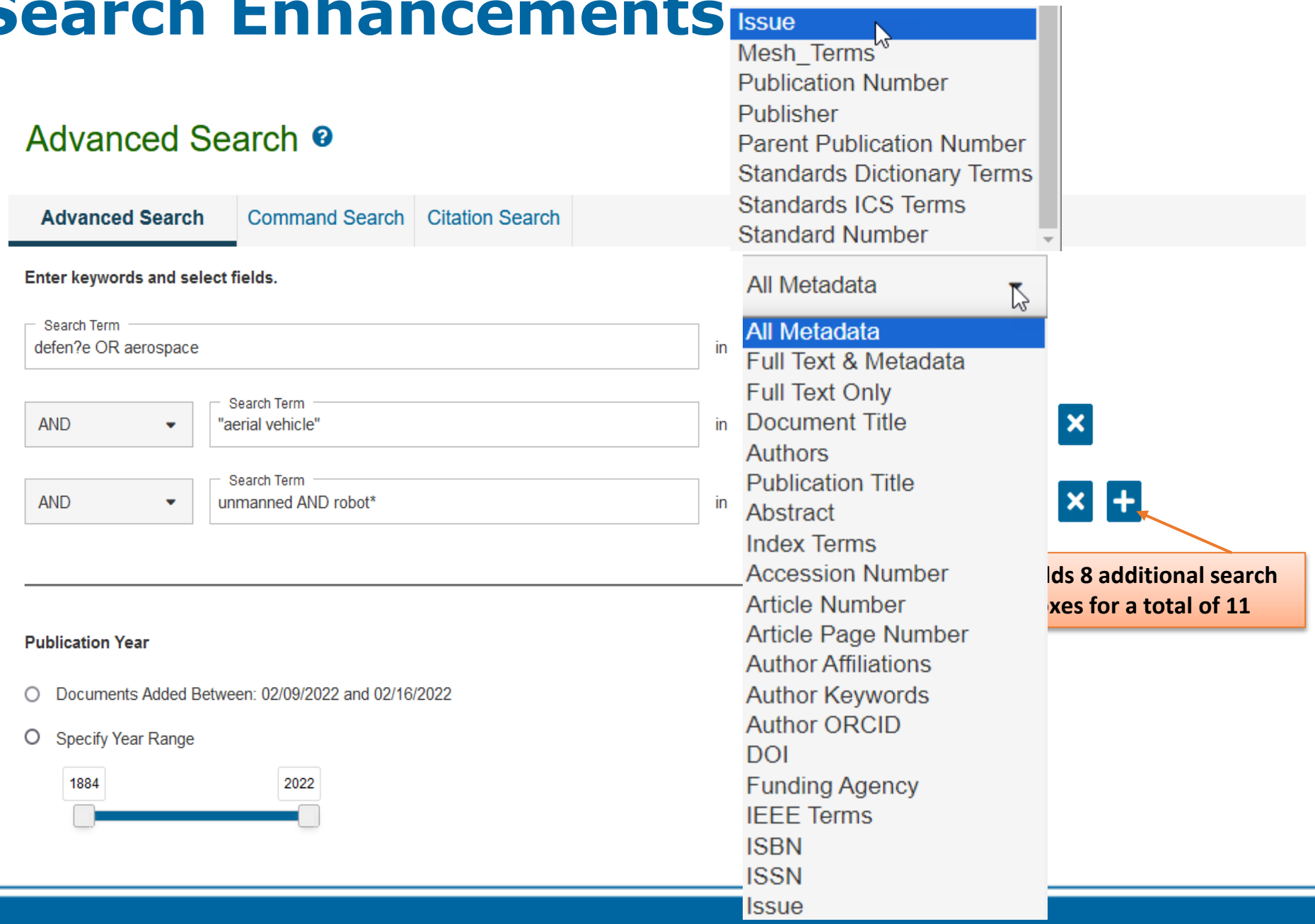
40 terms max



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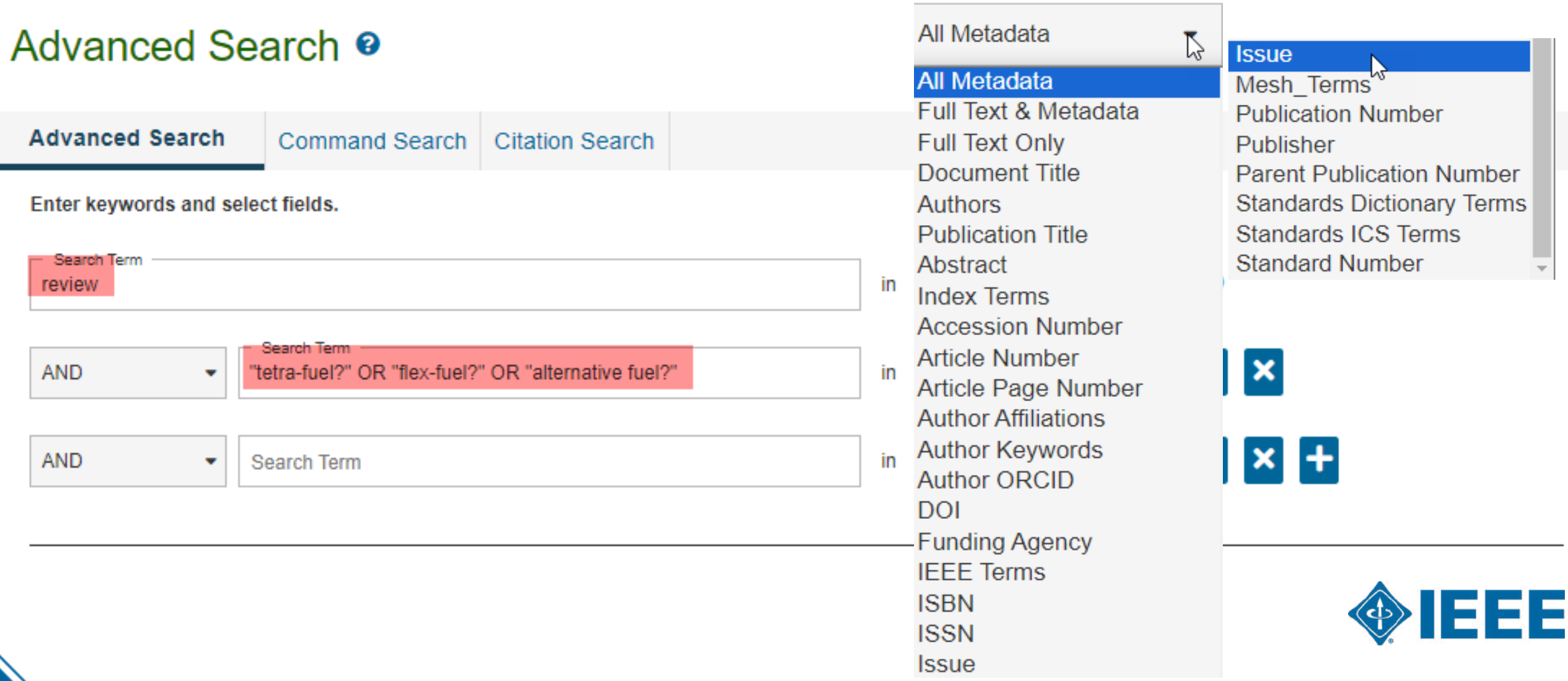

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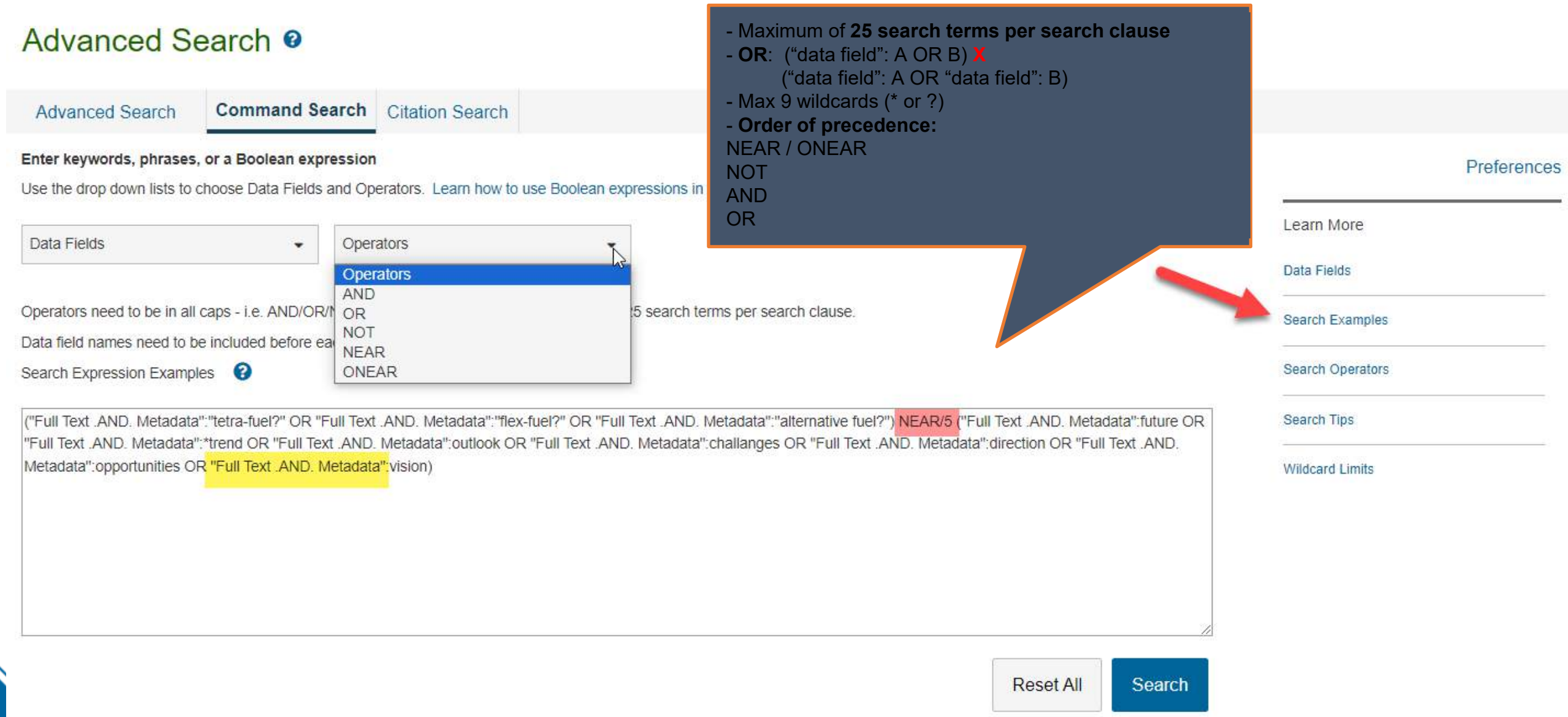
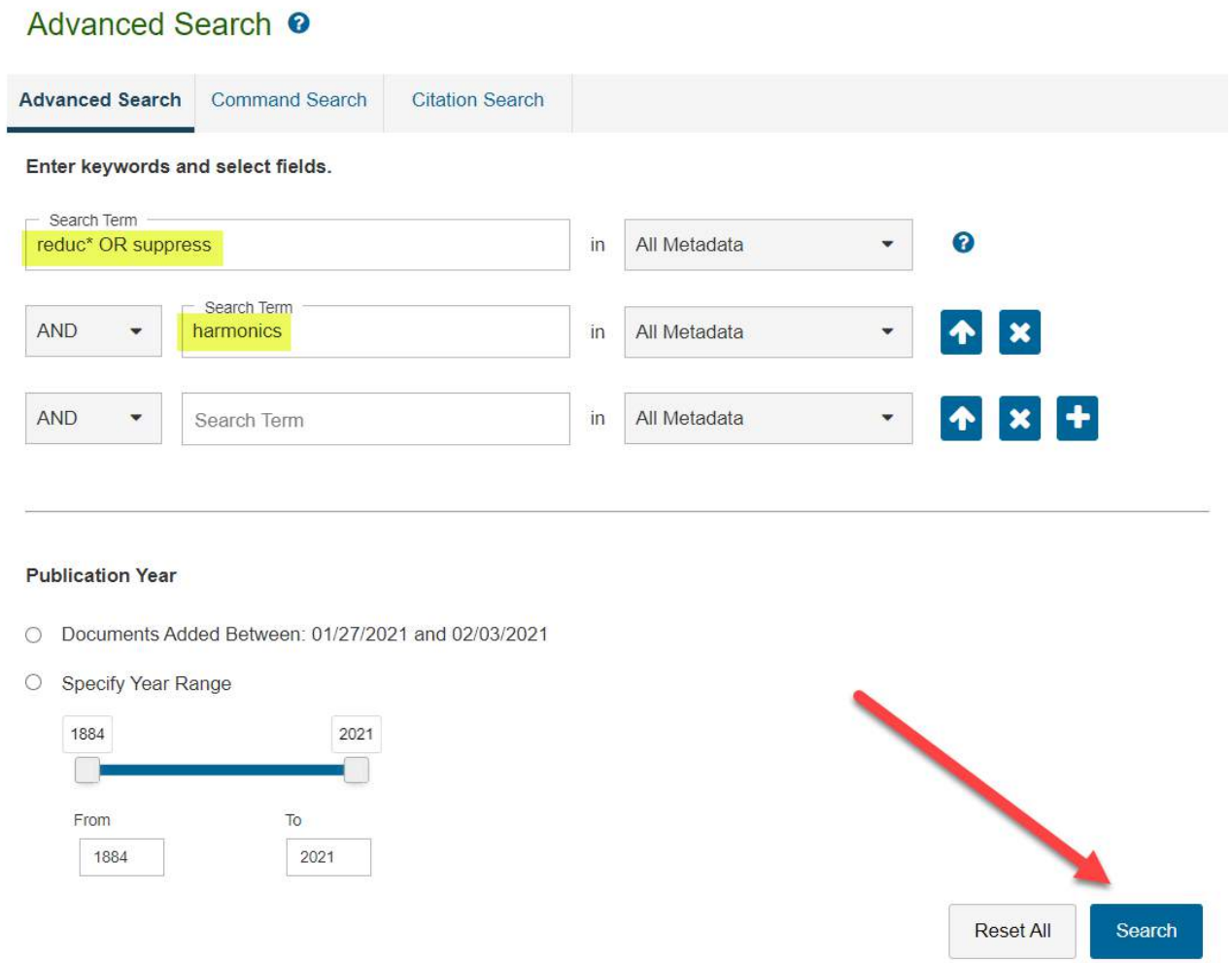


Advanced Search Enhancements



- Advanced Search now supports Boolean operators in the search boxes
- Order of precedence is:
  1) NOT 2) AND 3) OR
- Previously, the search below was processed as:
  (reduc* OR suppress*) AND harmonics
- Now, the search will be processed as:
  reduc* OR (suppress* AND harmonics)
- To search ***(reduc* OR suppress*) AND harmonics*** in Advanced Search, type the OR string in the top box (see left)

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- "natural hazard" OR "natural disaster" OR avalanche OR landslide OR earthquake OR "volcanic eruption" OR flood OR tsunami AND messag* OR warn* OR communicat* AND "artificial intelligence" OR "machine learning" OR "deep learning" OR robotics OR "neural network" OR "natural language processing“

- VS.

- ("natural hazard" OR "natural disaster" OR avalanche OR landslide OR earthquake OR "volcanic eruption" OR flood OR tsunami)
- AND
- (messag* OR warn* OR communicat*)
- AND
- ("artificial intelligence" OR "machine learning" OR "deep learning" OR robotics OR "neural network" OR "natural language processing")

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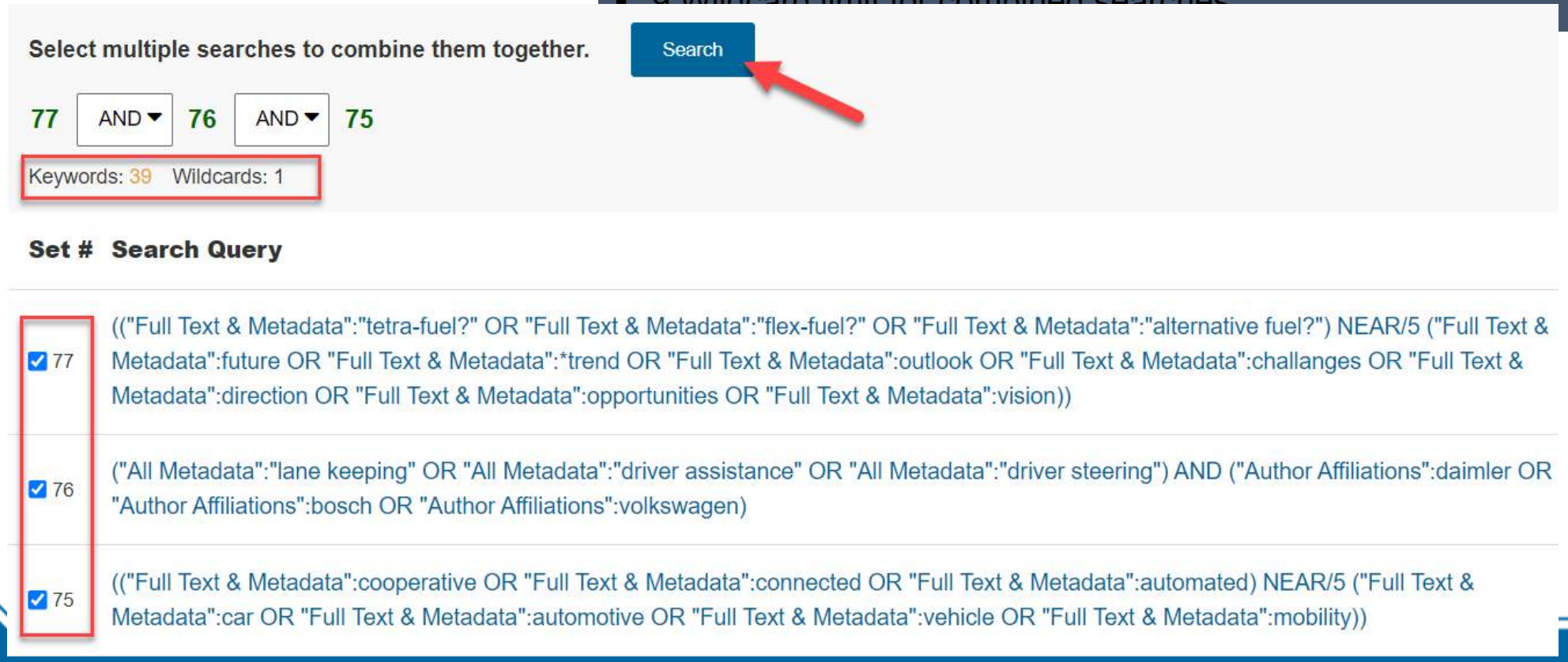

Identify most important technical terms

Publication Topics

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DeepIDA: Predicting Isoform-Disease Associations by Data Fusion and Deep Neural Networks

Guoxian Yu; Yeqian Yang; Yangyang Yan; Maozu Guo; Xiangliang Zhang; Jun Wang

IEEE/ACM Transactions on Computational Biology and Bioinformatics

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Coordinated Planning of Electric Power and Natural Gas Distribution Systems With Refueling Stations for Alternative Fuel Vehicles in Transportation System

Chengcheng Shao; Ke Li; Zechun Hu; Mohammad Shahidehpour

IEEE Transactions on Smart Grid

Year: 2022 | Volume: 13, Issue: 5 | Journal Article | Publisher: IEEE

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Coordinated Planning of Electric Power and Natural Gas Distribution Systems With Refueling Stations for Alternative Fuel Vehicles in Transportation System

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Chengcheng Shao ; Ke Li ; Zechun Hu ; Mohammad Shahidehpour All Authors

Abstract:

The alternative fuel vehicles (AFVs) which include electric vehicles (EVs) and natural gas vehicles (GVs) have gained much attention in recent years for delivering a clean and low-carbon urban mobility. The AFV development is promoting the coordination among electric power, natural gas, and transportation (ENT) networks. This paper proposes a coordinated planning method for investment on and operation of emerging urban energy infrastructures. The sites and sizes of refueling stations are optimized along with the expansion strategies for electric power distribution network (PDN) and natural gas distribution network (GDN). First, AFV refueling demands are analyzed according to the refueling station constraints and options, and transportation network (TN) constraints. Second, the coordinated planning model for PDN and GDN is formulated along with respective operation constraints in PDN, GDN, and TN. An efficient MILP solution method is developed for the proposed optimization problem. Finally, several case studies verify the effectiveness of the proposed model and its solution method. Compared with existing solutions, the proposed panning method offers a more accurate AFV refueling demand model with various refueling options. It is demonstrated that the coordinated planning can reduce investment and operation costs of urban energy infrastructures by exploring the pertinent interactions among constrained PDN, GDN, and TN.

Published in: IEEE Transactions on Smart Grid (Volume: 13 , Issue: 5, September 2022)

Page(s): 3558 - 3569

DOI: 10.1109/TSG.2022.3166965

Date of Publication: 12 April 2022

Publisher: IEEE

ISSN Information:

Funding Agency:

Nomenclature

Identify most important technical terms under Keywords

Keywords

IEEE Keywords

Planning, Transportation, Natural gas, Indexes, Costs, Fuels, Resistance heating

Index Terms

Electric Power, Natural Gas, Power Distribution, Electric Distribution, Electricity Gas, Natural Gas Distribution, Alternative Fuel Vehicles, Refuelling Stations, Fuel Vehicles, Operational Costs, Electric Vehicles, Distribution Network, Solution Method, Transportation Network, Power Network, Investment Costs, Urban Infrastructure, Mixed Integer Linear Programming, Demand Model, Gas Pipeline, State Of Charge, Traffic Flow, Electric Vehicles Charging, Mixed Integer Linear Programming Problem, Distribution Lines, Travel Behaviour, Hydrogen Transport, Power Line, Electric Heating

Author Keywords

Electric power distribution, natural gas, and transportation networks, coordinated planning, alternative fuel vehicles, refueling stations

Identify Future Trends/Outlook according to authors

Coordinated Planning of Electric Power and Natural Gas Distribution Systems With Refueling Stations for Alternative Fuel Vehicles in Transportation System

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SECTION VI.
Conclusion

This paper has proposed a coordinated planning model for the urban energy infrastructure considering AFV refueling options. The PDN and GDN are expanded along with the refueling infrastructure for EVs and GVs. The respective operation constraints are also embedded in the proposed model. An MILP method is developed to provide an efficient solution for the proposed model. The case studies have verified the validity of the proposed model and its solution method. The results have shown that both the investment and the operation costs can be optimized by the coordination of PDN, GDN, and TN. In addition, the proposed improvement in the accuracy of the refueling demand model contributes to a rational expansion plan for coordinated PDNs, GDNs and TNs which reduces the operation and investment costs. In the future, temporal and spatial uncertainties of refueling demand and its interactions with refueling station planning will be studied in detail.

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Abstract:

The alternative fuel vehicles (AFVs) which include electric vehicles (EVs) and natural gas vehicles (GVs) have gained much attention in recent years for delivering a clean and low-carbon urban mobility. The AFV development is promoting the coordination among electric power, natural gas, and transportation (ENT) networks. This paper proposes a coordinated planning method for investment on and operation of emerging urban energy infrastructures. The sites and sizes of refueling stations are optimized along with the expansion strategies for electric power distribution network (PDN) and natural gas distribution network (GDN). First, AFV refueling demands are analyzed according to the refueling station constraints and options, and transportation network (TN) constraints. Second, the coordinated planning model for PDN and GDN is formulated along with respective operation constraints in PDN, GDN, and TN. An efficient MILP solution method is developed for the proposed optimization problem. Finally, several case studies verify the effectiveness of the proposed model and its solution method. Compared with existing solutions, the proposed panning method offers a more accurate AFV refueling demand model with various refueling options. It is demonstrated that the coordinated planning can reduce investment and operation costs of urban energy infrastructures by exploring the pertinent interactions among constrained PDN, GDN, and TN.

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Abstract

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Abstract:

Rising atmospheric adulteration due to exponential growth in urbanization, industrialization, and increasing the number of on-road vehicles is raising an alarming situation for urban communities. To mitigate the effects of this escalating issue, there is direct need for implementation of alternative fuel-based distributed generation and transportation system. In this paper, an optimal framework of energy management system (EMS) for public electric vehicles (EVs) charging station integrated with the

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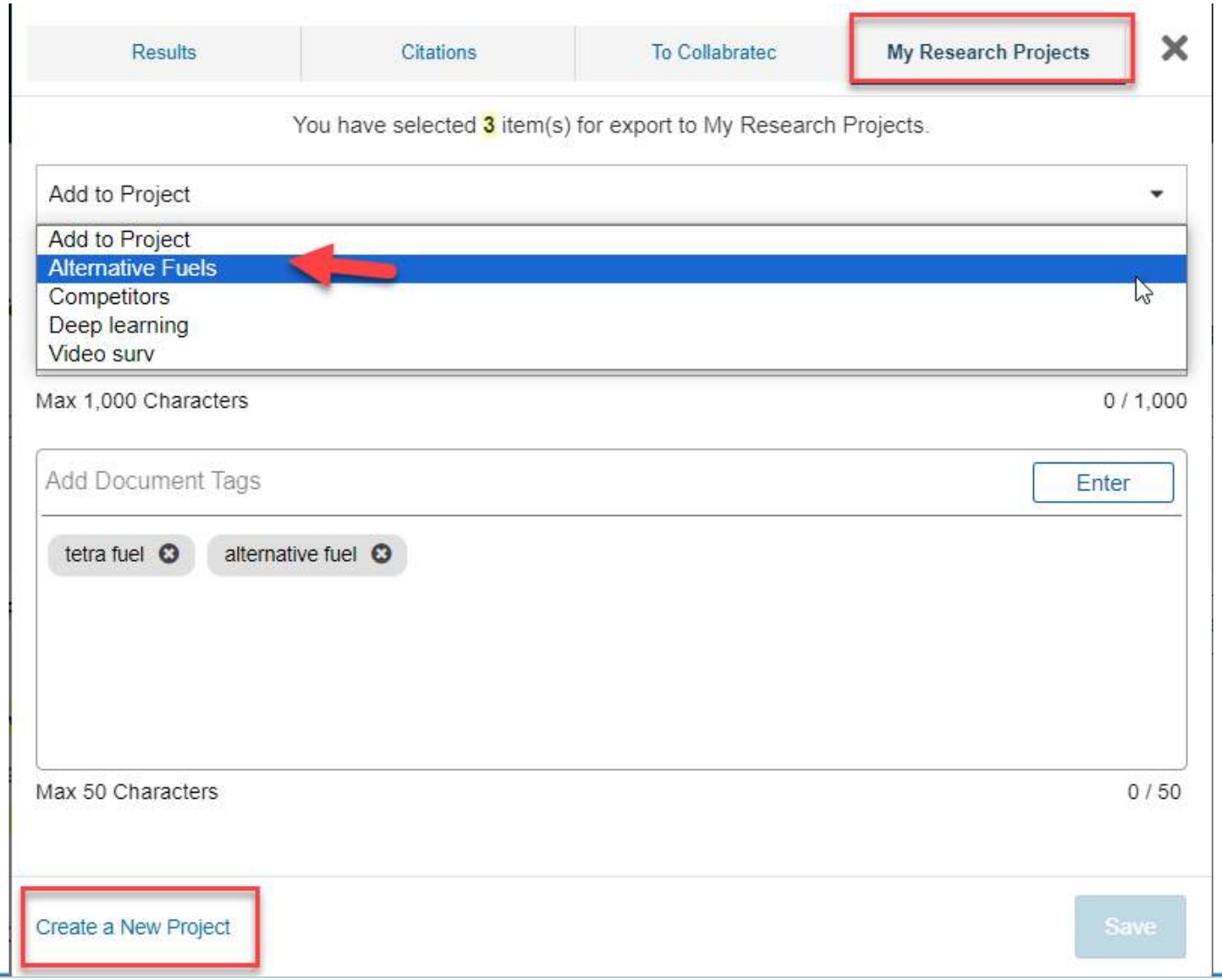

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☐ **Side-Scan Sonar Analysis Using ROI Analysis and Deep Neural Networks**

Dawid Połap; Natalia Wawrzyniak; Marta Włodarczyk-Sielicka

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Natalia Wawrzyniak

Affiliation

Faculty of Navigation
Maritime University of Szczecin
Szczecin, Poland

Publication Topics

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Biography

Natalia Wawrzyniak received the M.Sc. degree in computer science and engineering from the Szczecin University of Technology, in 2006, and the Ph.D. degree in computer science, image processing from the West Pomeranian University of Technology, Szczecin, Poland, in 2013. Since 2013, she has been an Associate Professor with the Maritime University of Szczecin, Poland. Her main research interests include spatial data processing, underwater remote sensing, and system design for various inland and marine applications. *(Based on document published on 14 July 2023).*

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Izabela Bodus-Olkowska
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2023 Conference on Sustainable Energy Supply and Energy Storage Systems (NEIS) **Location:** Helmut Schmidt University, Rodigallee 98, Hamburg, Germany **Website:** http://www.neis-conference.com	Germany	02 Apr 2023	04-05 Sep 2023
2023 IEEE Sustainable Power and Energy Conference (iSPEC)	China		28-30 Nov 2023

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3 - 5 June 2024 | Lublin, Poland | Event Format: In-person

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Field of Interest: Aerospace; Components, Circuits, Devices and Systems; Computing and Processing; Fields, Waves and Electromagnetics; General Topics for Engineers; Robotics and Control Systems; Signal Processing and Analysis; Transportation

2025 IEEE Radar Conference (RadarConf25)

4 - 10 October 2025 | Krakow, Poland | Event Format: In-person

Sponsors: IEEE Aerospace and Electronic Systems Society; Poland Section; Poland Section AP/AES/MTT Joint Chapter

Field of Interest: Aerospace; Bioengineering; Components, Circuits, Devices and Systems; Computing and Processing; Geoscience; Signal Processing and Analysis

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25 - 27 September 2024 | Poznan, Poland | Event Format: Hybrid (In-person and Virtual)

Sponsors: Poland Section CAS Chapter; Poland Section SP Chapter; Poznan University of Technology

Field of Interest: Bioengineering; Communication, Networking and Broadcast Technologies; Components, Circuits, Devices and Systems; Computing and Processing; Robotics and Control Systems; Signal Processing and Analysis; Transportation

2024 ELEKTRO (ELEKTRO)

20 - 22 May 2024 | Zakopane, Poland | Event Format: In-person

Sponsors: Cracow University of Technology, Poland; Czechoslovakia Section; Faculty of Electrical Engineering and Information Technology, University of Zilina, Slovakia; Poland Section; Poland Section C Chapter; Region 08 - Europe,Middle East,Africa; University of Catania

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Aims & Scope

The *IEEE Transactions on Smart Grid* is a cross disciplinary journal aimed at disseminating results of research on and development of the smart grid, which encompasses energy networks where prosumers, electric transportation, distributed energy resources, and communications are integral and interactive components, as in the case of microgrids and active distribution networks interfaced with transmission systems. The journal publishes original research on theories and principles of smart grid technologies and systems, used in demand response, Advance Metering Infrastructure, cyber-physical systems, multi-energy systems, transactive energy, data analytics, and EV integration. Surveys of existing work on the smart grid may also be considered for publication when they propose a new viewpoint on history and a challenging perspective on the future of intelligent and active grids.

Additional Information

The articles in this journal are peer reviewed in accordance with the requirements set forth in the IEEE PSPB Operations Manual (sections 8.2.1.C & 8.2.2.A). Each published article was reviewed by a minimum of two independent reviewers using a single-anonymous peer review process, where the identities of the reviewers are not known to the authors, but the reviewers know the identities of the authors. Articles will be screened for plagiarism before acceptance.

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IEEE AP-S Antennas and Propagation Society / 75TH Anniversary

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Last updated March 13

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Writing the Article

Components of a Typical Article

Title	Specific, concise, descriptive
Abstract	Describe research in 250 words or less
Introduction	Novelty, goal, and motivation
Approach and Results	What you did, how you did it, and what results you obtained
Discussion and Conclusion	What your results mean and areas of further study
References	Proper attribution of previous work

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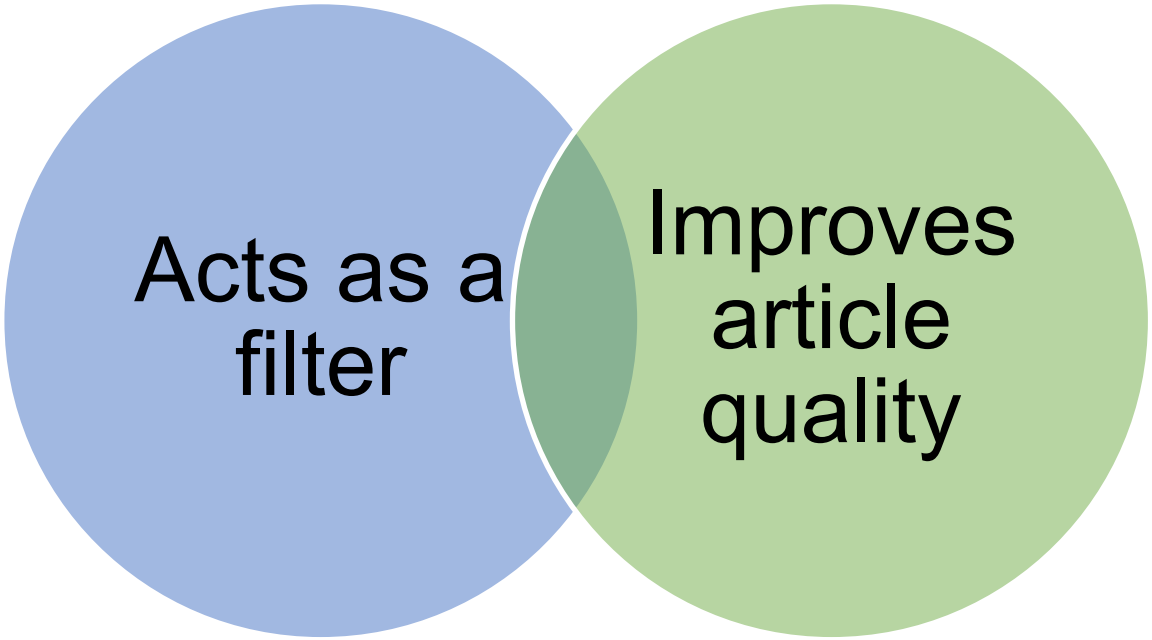
Peer review process and what editors and reviewers are looking for

What is Peer Review?

Peer review is “the critical assessment of manuscripts submitted to [publications] by experts who are not part of the editorial staff.”[1]



[1]International Committee of Medical Journal Editors

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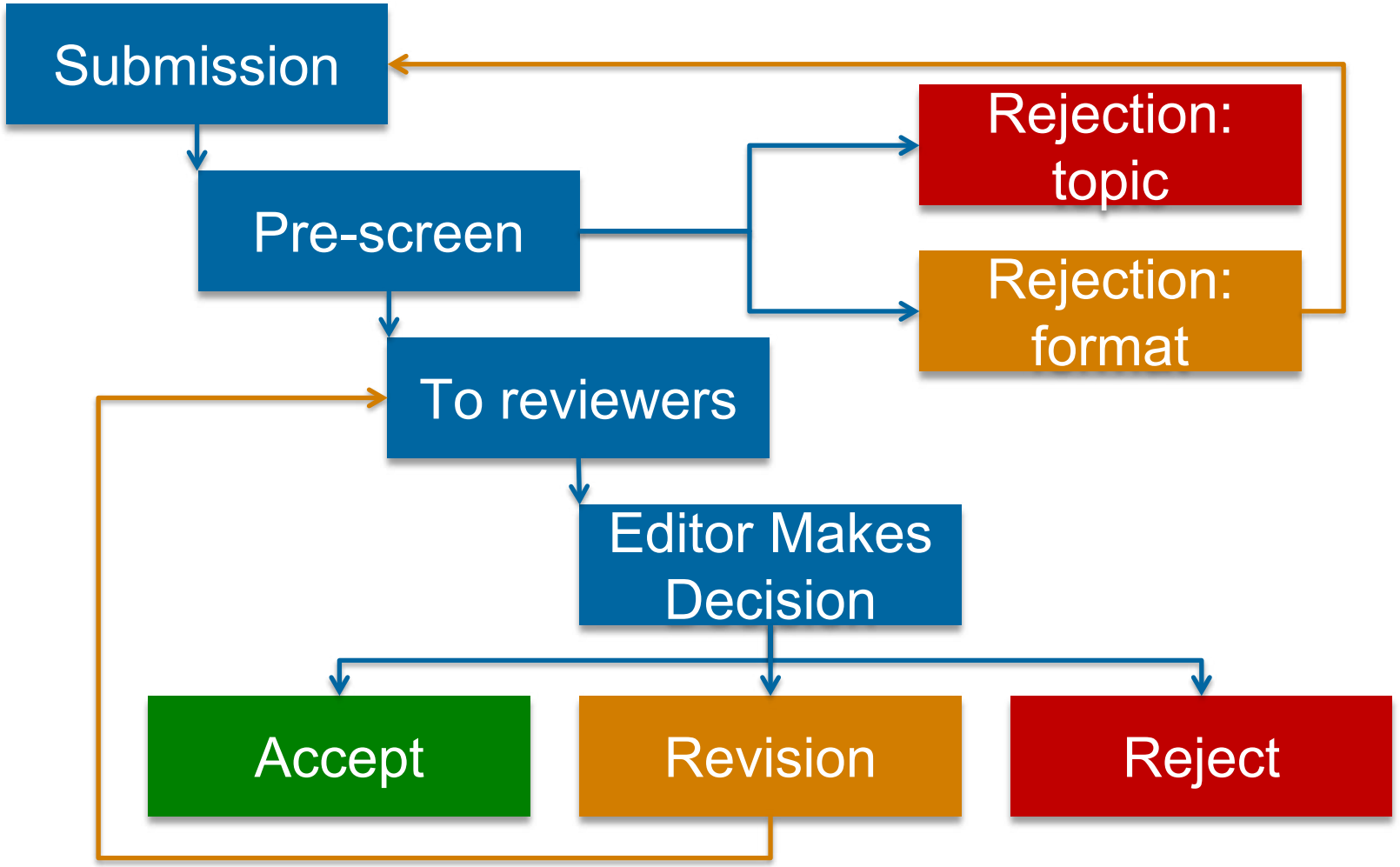
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Rejection: format
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- Scope
- Validity
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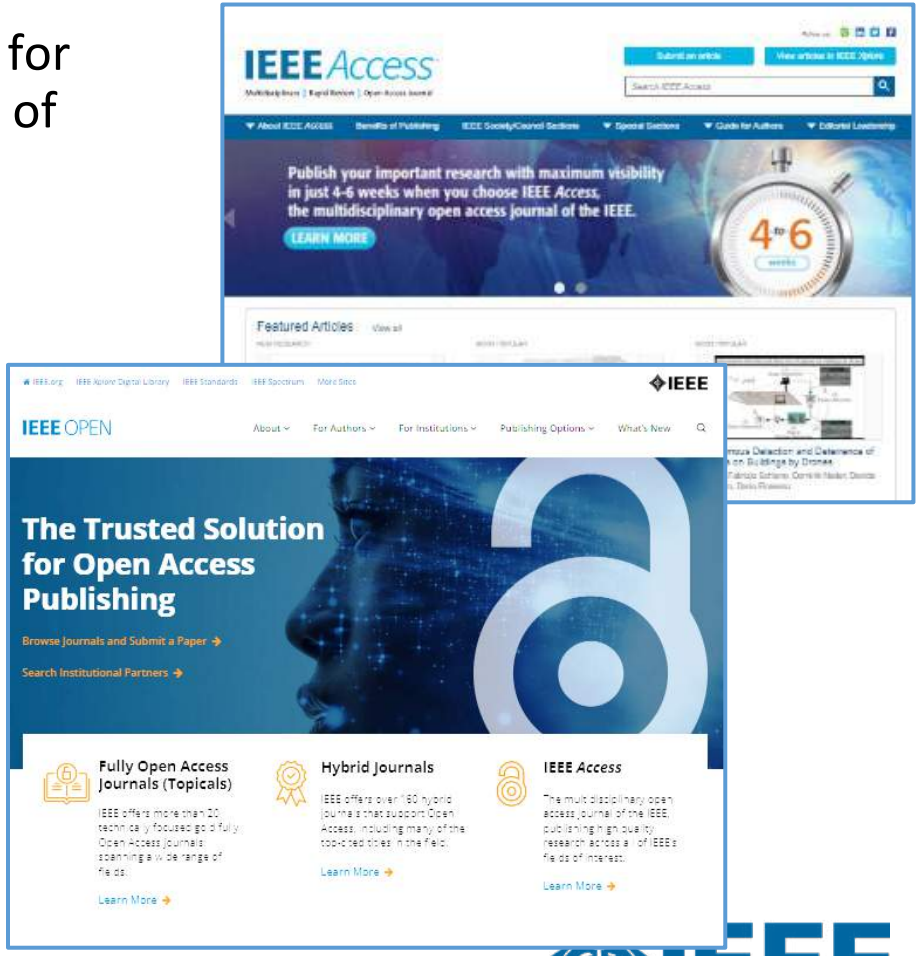

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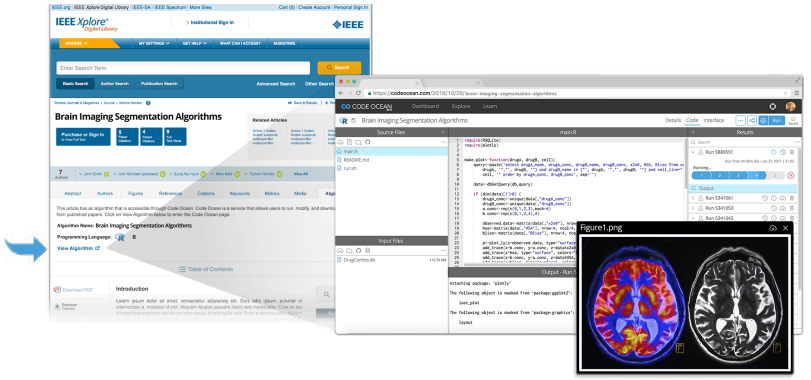

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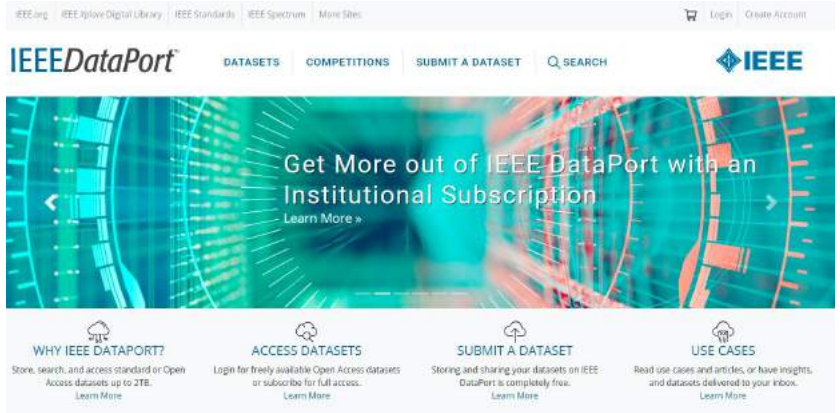

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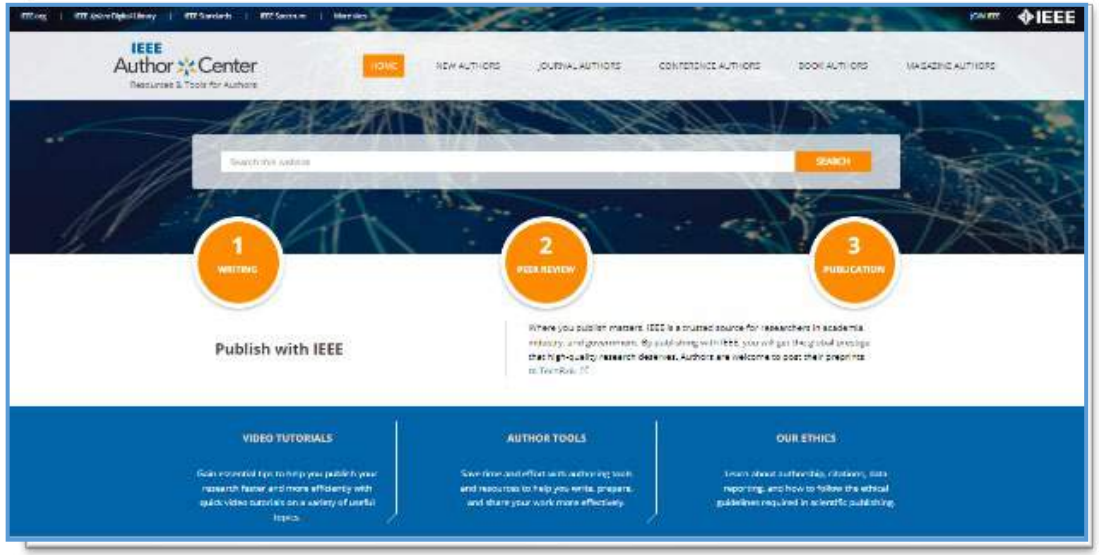

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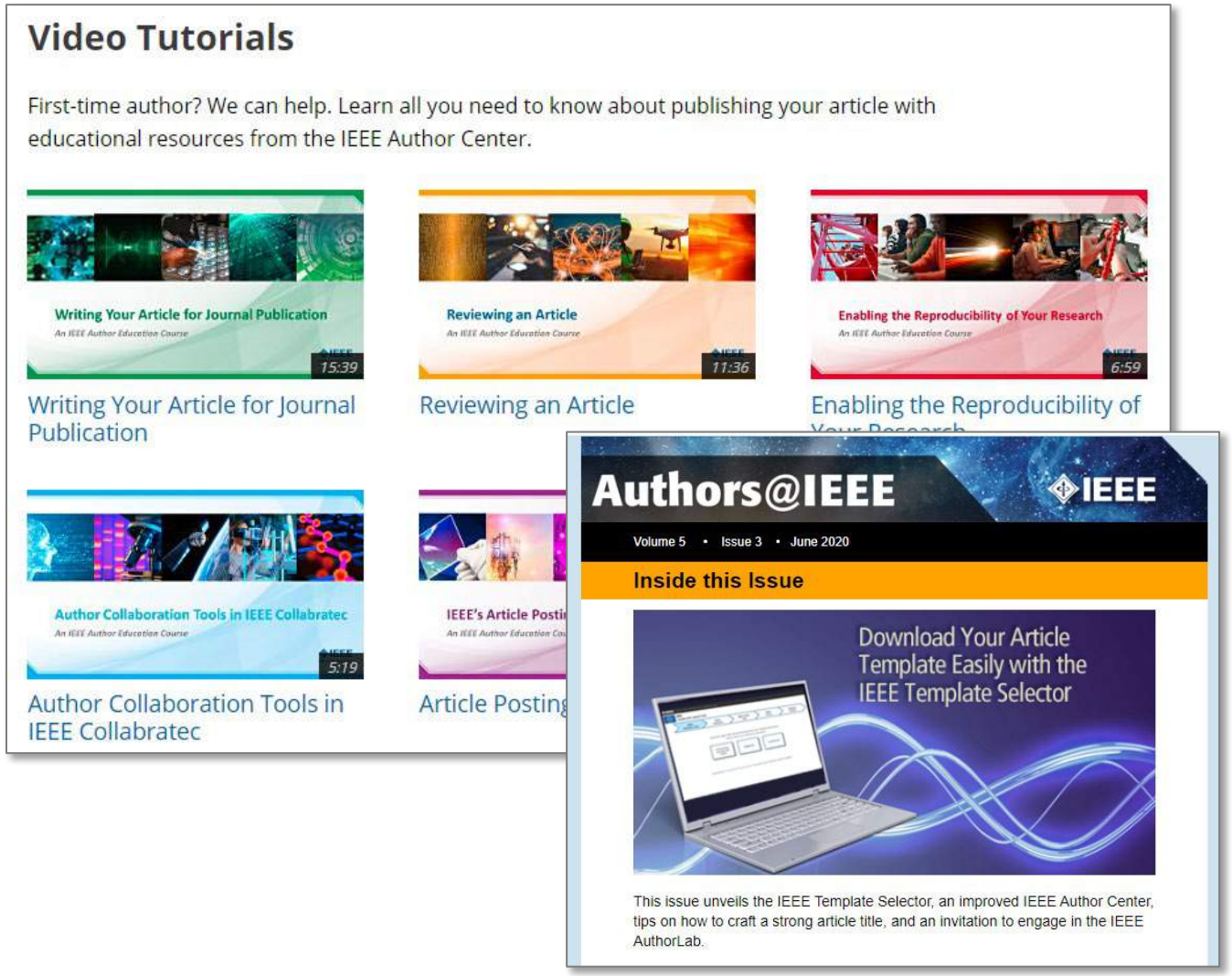

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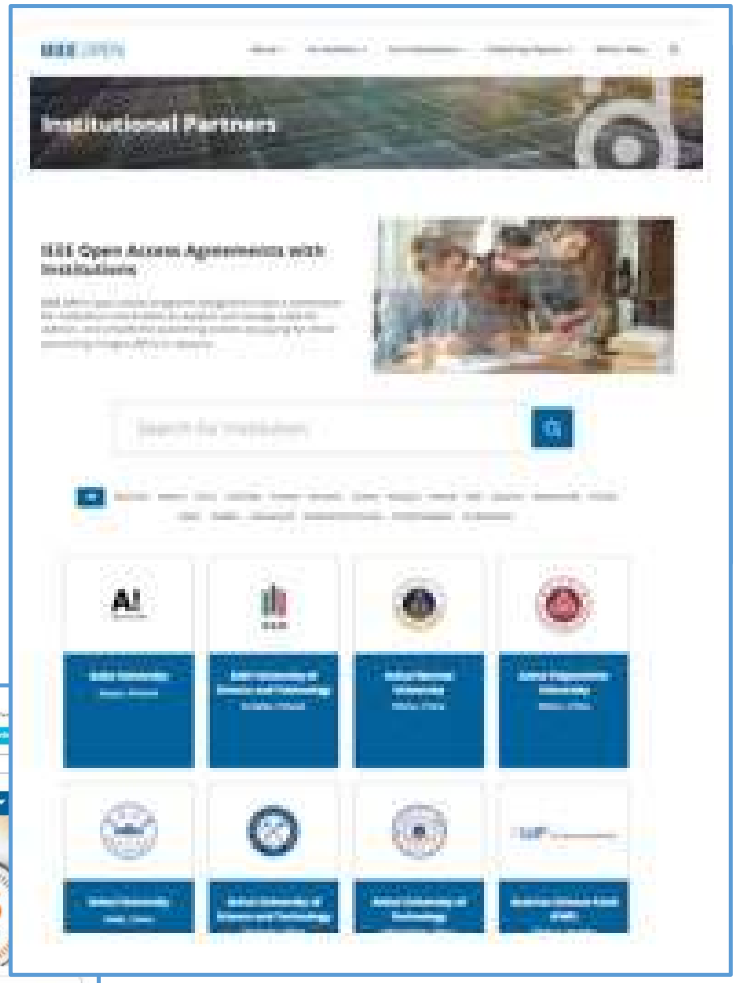

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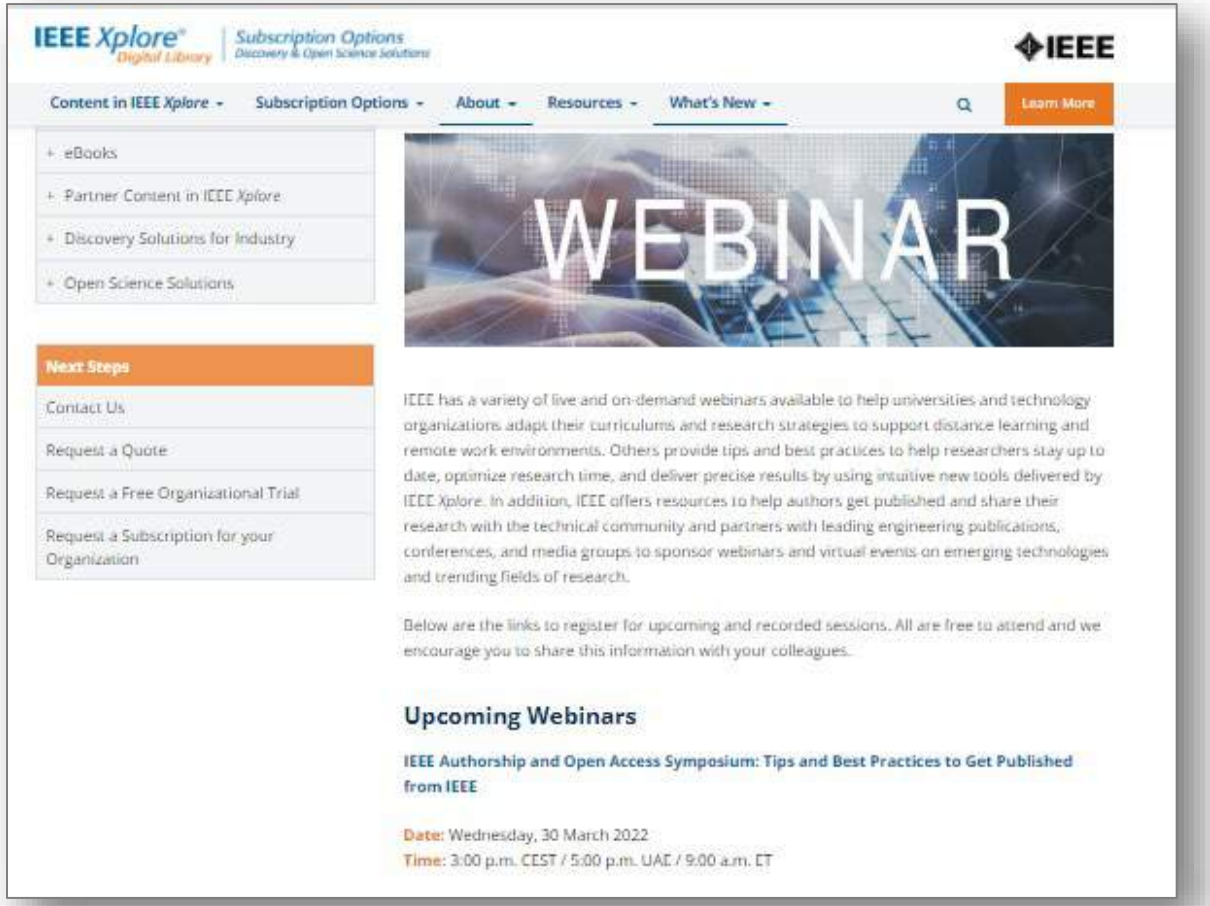

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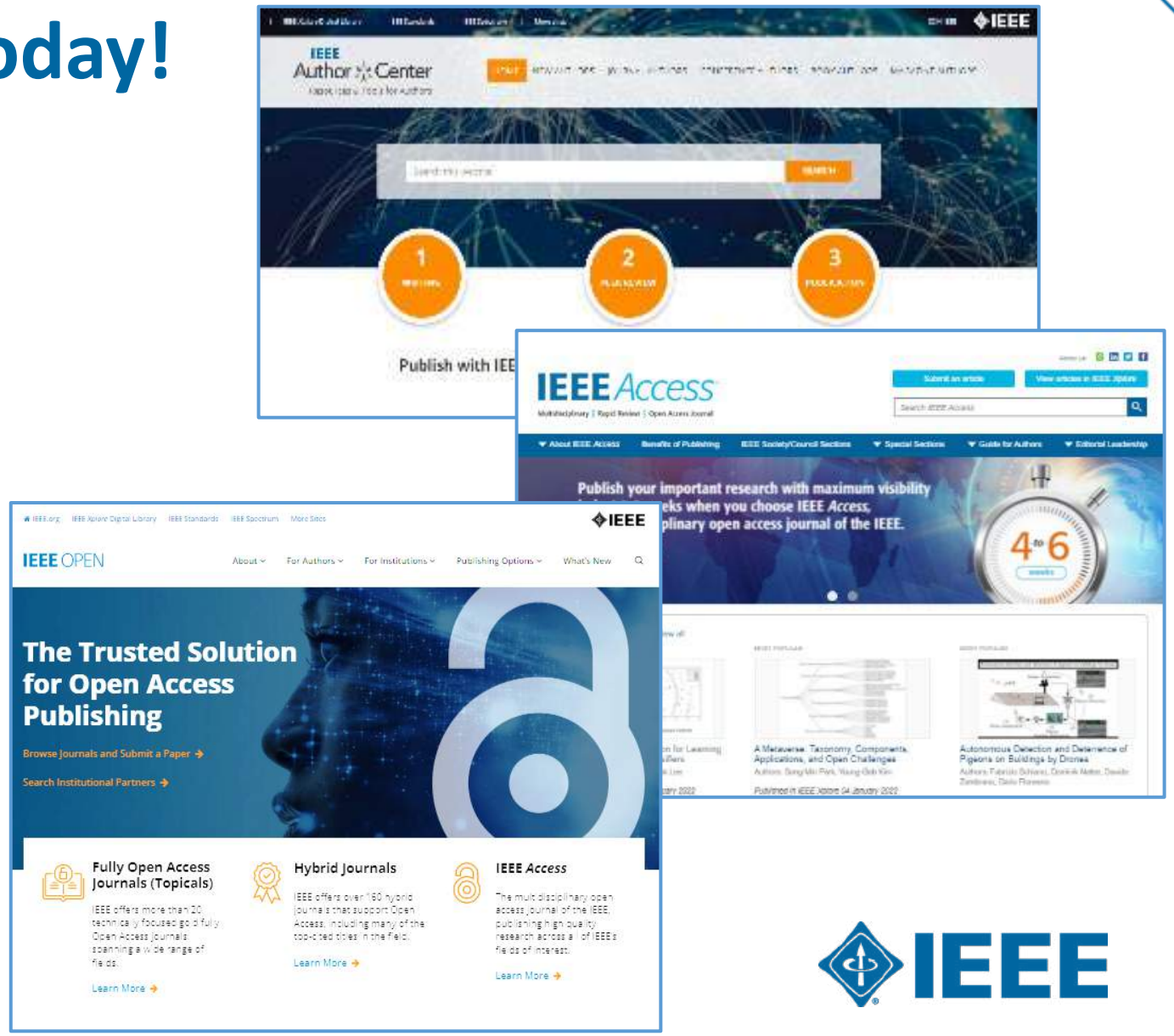

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The IEEE Standards Association (SA)

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- 8,500+ individual members
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What Are Standards?

Standards establish specifications and procedures designed to ensure the reliability of the materials, products, methods, and/or services people use every day.

IEEE

Why Are Standards Important?

- Standards are the building blocks for product development and establish consistent protocols that are universally understood and adopted
- Standards establish compatibility, interconnectivity, interoperability, simplify product development, and speed time-to-market
- Standards ease understanding and comparison of competing products
- As standards are globally adopted, they aide with international trade
- Standards fuel development and implementation of technologies that influence and transform the way we live, work and communicate

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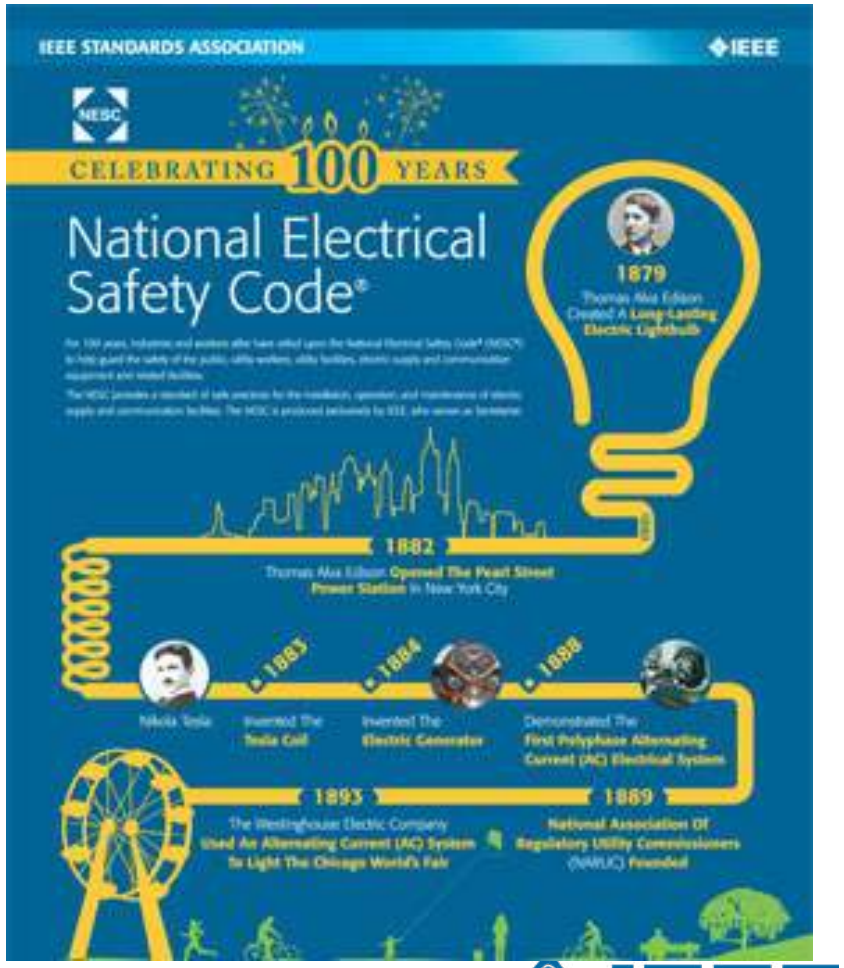
Some Popular IEEE Standards

- **IEEE 802.11 Series**: IEEE Standard for Wireless Communications (Wi-Fi)
- **IEEE 3000 Standards Collection™**: 70 “dot” standards covering specific technical topics on facets of industrial and commercial power systems
- **IEEE 43™**: IEEE Recommended Practice for Testing Insulation Resistance of Electric Machinery
- **IEEE 80™**: IEEE Guide for Safety in AC Substation Grounding
- **IEEE 519™**: IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems
- **IEEE 830™**: IEEE Recommended Practice for Software Requirements Specifications
- **National Electrical Safety Code® (NESC®)**: Rules for practical safeguarding of persons during the installation, operation, or maintenance of electric supply and communications lines and associated equipment



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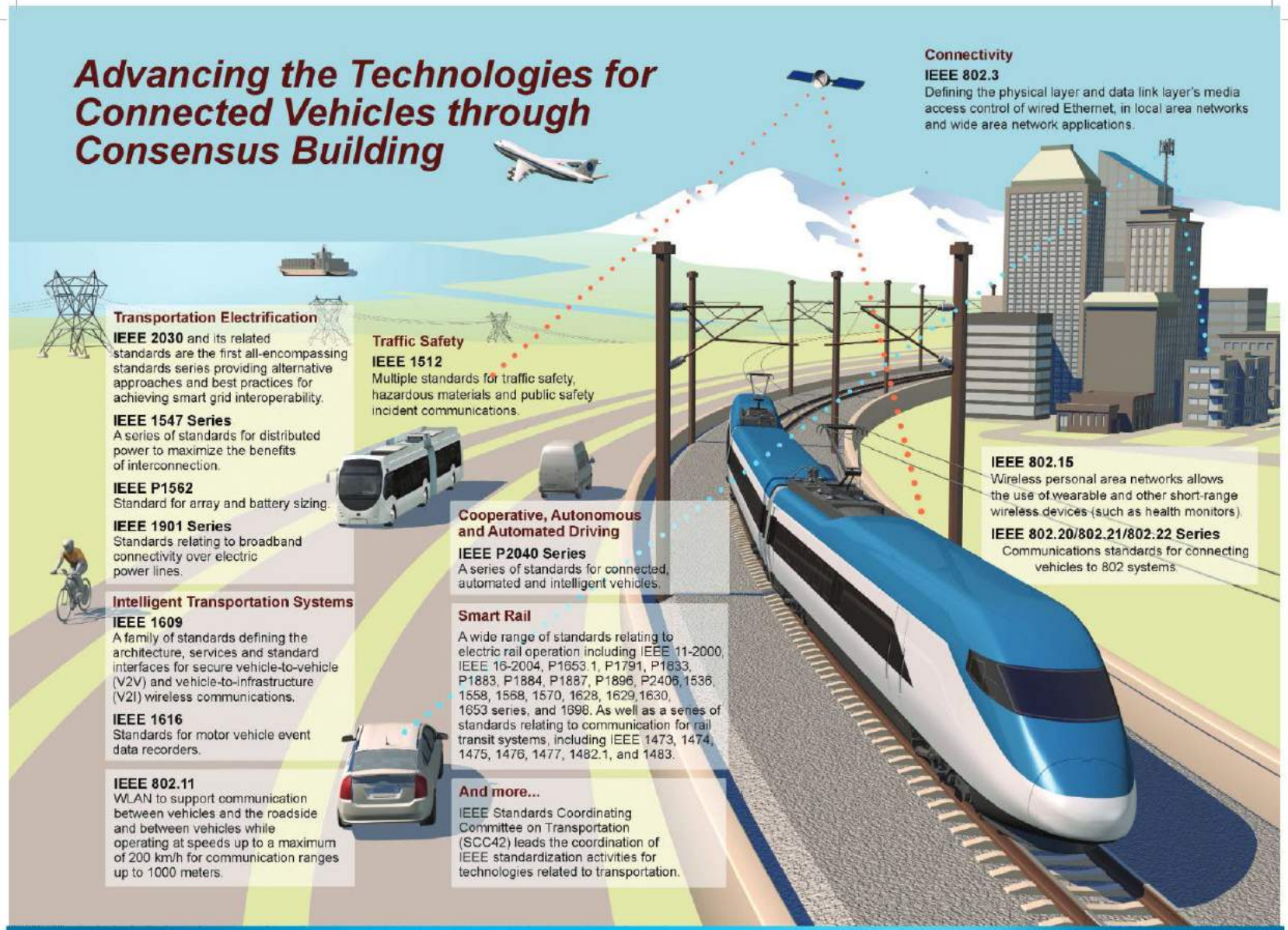
Advancing the Technologies for Connected Vehicles through Consensus Building



Connectivity

IEEE 802.3
Defining the physical layer and data link layer's media access control of wired Ethernet, in local area networks and wide area network applications.

Transportation Electrification

IEEE 2030 and its related standards are the first all-encompassing standards series providing alternative approaches and best practices for achieving smart grid interoperability.

IEEE 1547 Series
A series of standards for distributed power to maximize the benefits of interconnection.

IEEE P1562
Standard for array and battery sizing.

IEEE 1901 Series
Standards relating to broadband connectivity over electric power lines.

Traffic Safety

IEEE 1512
Multiple standards for traffic safety, hazardous materials and public safety incident communications.

Cooperative, Autonomous and Automated Driving

IEEE P2040 Series
A series of standards for connected, automated and intelligent vehicles.

Intelligent Transportation Systems

IEEE 1609
A family of standards defining the architecture, services and standard interfaces for secure vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) wireless communications.

IEEE 1616
Standards for motor vehicle event data recorders.

IEEE 802.11
WLAN to support communication between vehicles and the roadside and between vehicles while operating at speeds up to a maximum of 200 km/h for communication ranges up to 1000 meters.

Smart Rail

A wide range of standards relating to electric rail operation including IEEE 11-2000, IEEE 16-2004, P1653.1, P1791, P1833, P1883, P1884, P1887, P1896, P2406, 1536, 1558, 1568, 1570, 1628, 1629, 1630, 1653 series, and 1698. As well as a series of standards relating to communication for rail transit systems, including IEEE 1473, 1474, 1475, 1476, 1477, 1482.1, and 1483.

And more...

IEEE Standards Coordinating Committee on Transportation (SCC42) leads the coordination of IEEE standardization activities for technologies related to transportation.

IEEE 802.15
Wireless personal area networks allows the use of wearable and other short-range wireless devices (such as health monitors).

IEEE 802.20/802.21/802.22 Series
Communications standards for connecting vehicles to 802 systems.

IEEE STANDARDS ASSOCIATION

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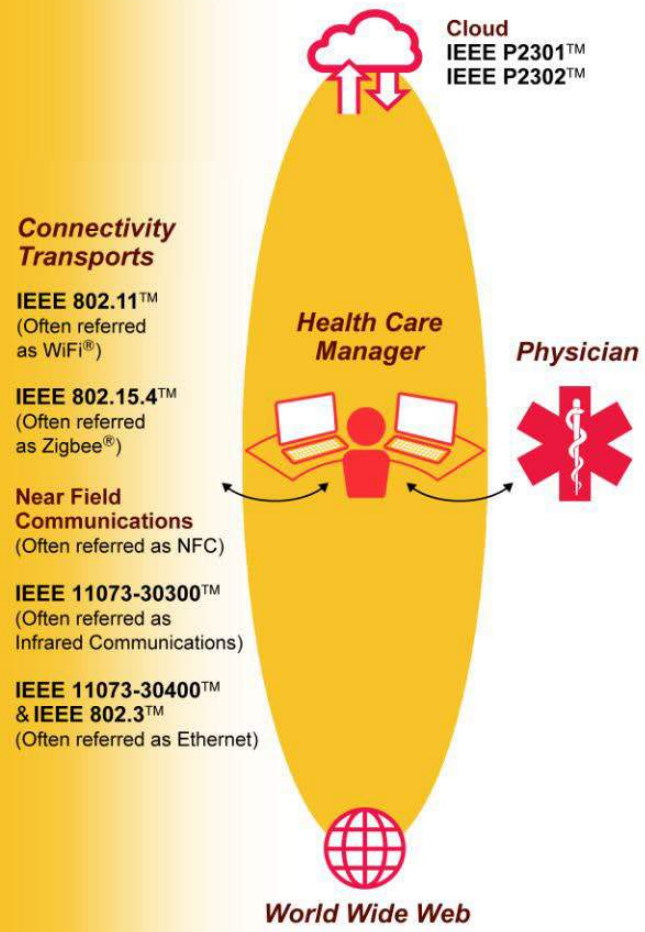
Improving Personal Health Device Communications Through Consensus Building



Connectivity Transports

IEEE 802.11™
(Often referred as WiFi®)

IEEE 802.15.4™
(Often referred as Zigbee®)

Near Field Communications
(Often referred as NFC)

IEEE 11073-30300™
(Often referred as Infrared Communications)

IEEE 11073-30400™ & IEEE 802.3™
(Often referred as Ethernet)

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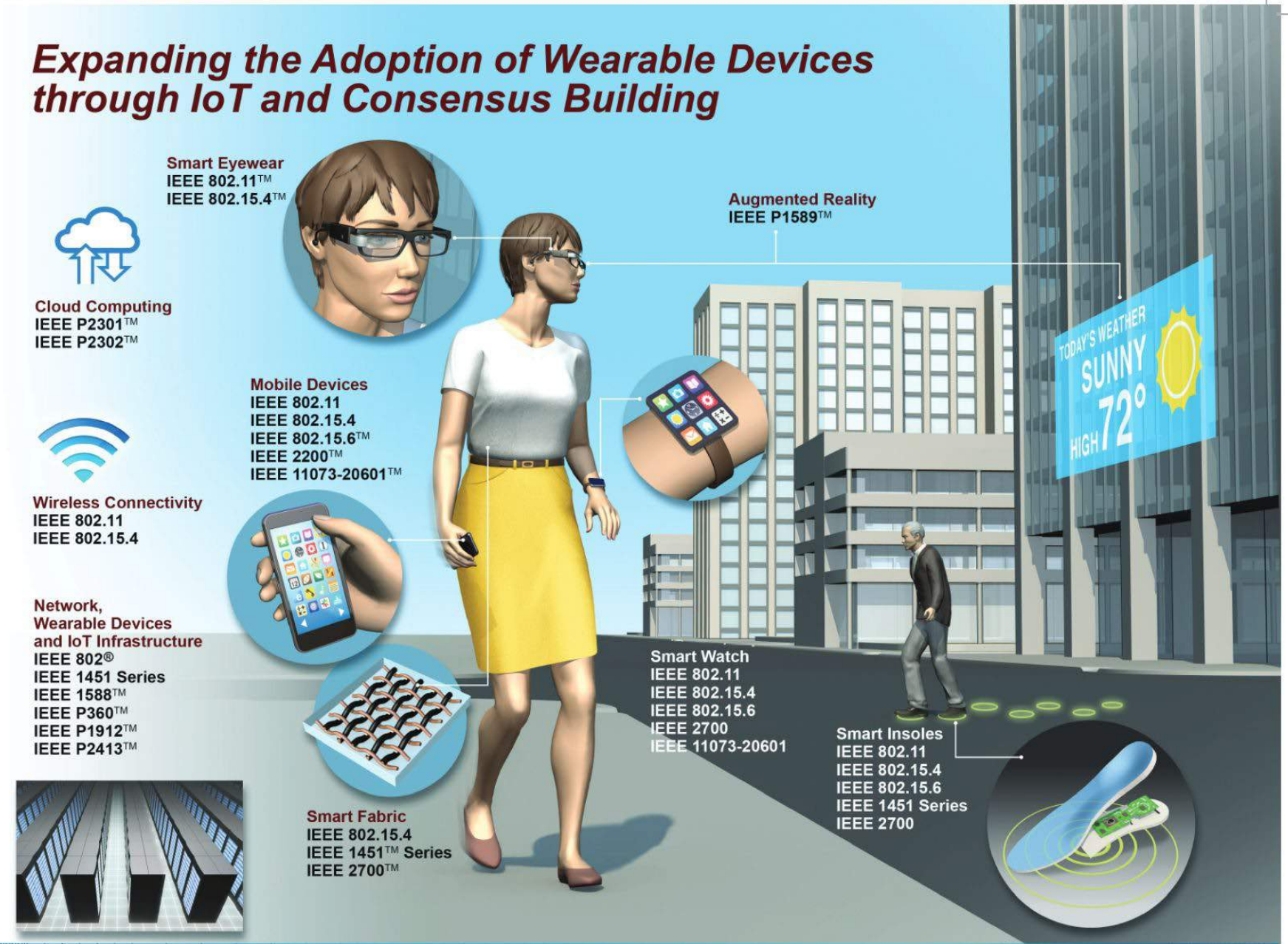
Expanding the Adoption of Wearable Devices through IoT and Consensus Building



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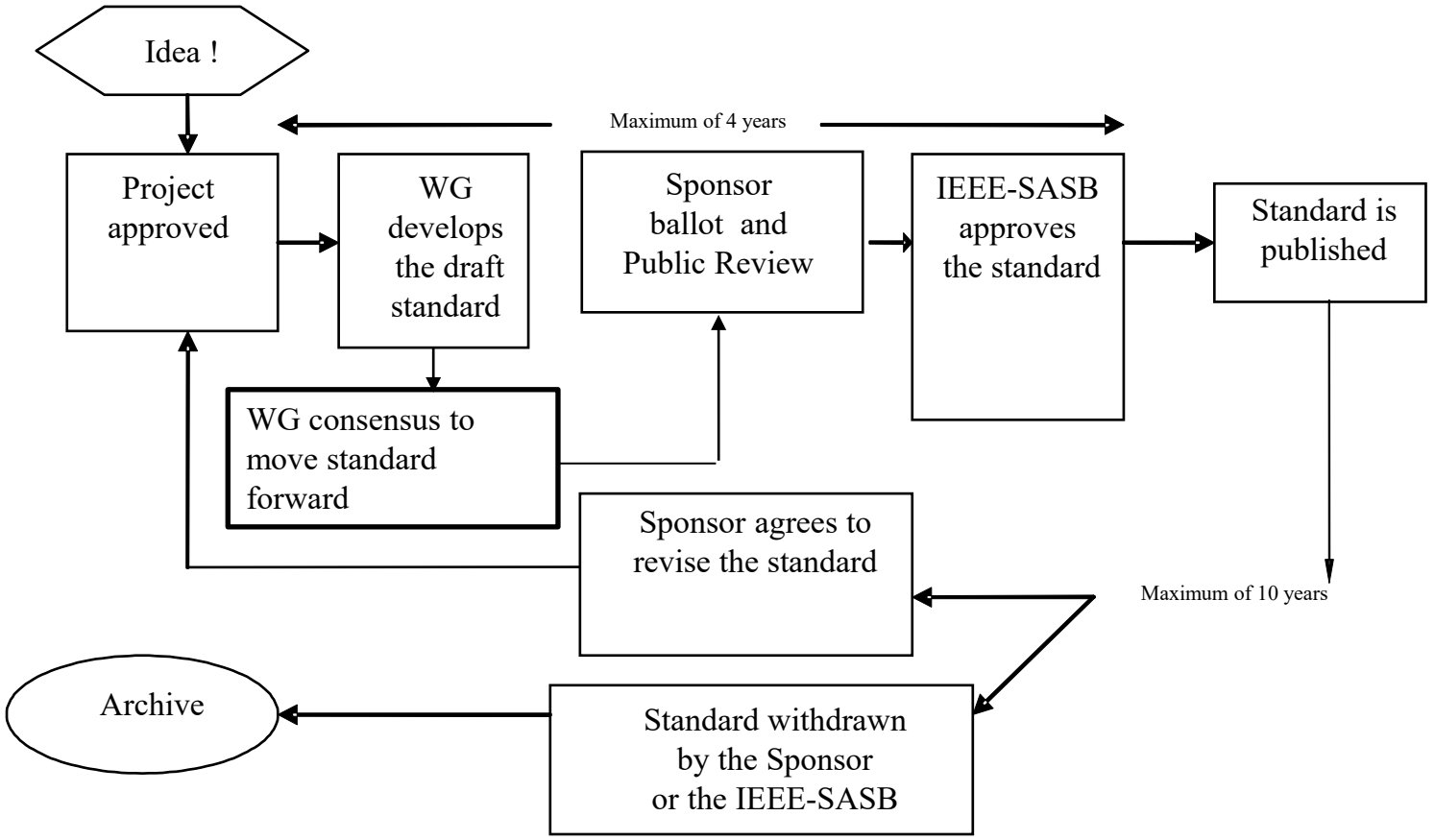
Standards Development Lifecycle



Standards Process Overview: http://standards.ieee.org/develop/overview.html

Types of IEEE Standards

- ***Standards:*** Documents with mandatory requirements
- ***Recommended Practices:*** Documents in which procedures and positions preferred by the IEEE are presented
- ***Guides:*** Documents in which alternative approaches to good practice are suggested but no clear recommendations are made
- ***Trial-Use Documents:*** Standards in effect for not more than three years
    - Can be any of the categories of standards publications listed above.

IEEE Standard for Data Format for Blockchain Systems

1. Overview

1.1 Scope

This standard establishes data format requirements for blockchain systems. This standard addresses data structures, data types, and data elements.

1.2 Purpose

This standard provides data format reference for organizations planning to use blockchain technology for constructing blockchain systems, while guiding blockchain service organizations on building data structures in blockchain system(s), and provides references about data formats for middleware service organizations during constructing blockchain systems(s).

1.3 Word usage

The word *shall* indicates mandatory requirements strictly to be followed in order to conform to the standard and from which nodeviation is permitted (shall equals is required to).[1,2]

The word *should* indicates that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required (should equals is recommended that).

The word *may* is used to indicate a course of action permissible within the limits of the standard (may equals is permitted to).

The word *can* is used for statements of possibility and capability, whether material, physical, or causal (can equals is able to).

Annex C

(normative)

Relevant data formats of consensus mechanism

C.1 Byzantine-like fault tolerance

NOTE—Byzantine-like fault tolerance consensus algorithm refers to a category of algorithms capable of solving the Byzantine Generals Problem. The typical algorithms include the PBFT algorithm and similar evolved algorithms.

C.1.1 Validator format

C.1.1.1 Validator address

The data format requirements of validator address are shown as follows:

Attribute	Content
Name	Validator address
Data type	String
Data length	Fixed length
Data description	Since the address is the identification for verification of ID, the validator shall not change its address.
Data remark	Optional

Read Journal Articles & Conference Papers

Introduction to IEEE Standard. 1584 IEEE Guide for Performing Arc-Flash Hazard Calculations- 2018 Edition

Publisher: IEEE Cite This PDF

Daleep Mohla ; Wei-Jen Lee ; Jim Phillips ; Albert Marroquin **All Authors**

Abstract

Document Sections

Abstract:
IEEE 1584 has been the premier standard for arc-flash hazard arcing current, incident energy, and arc-flash boundary calculations since it was first published in 2002. After extensive testing, and a long model development and validation period, the long-awaited revision of IEEE Std. 1584 has been published. The purpose of this paper is to introduce IEEE 1584-2018 "IEEE Guide for Performing Arc-Flash Hazard Calculations to the industry. The model range and the rationale for selection of the parameters is discussed for quantities such as voltage, bolted RMS short-circuit current, gap between conductors, enclosure dimensions, fault duration, working distance, and system frequency. Rationale is provided for the selection of electrode configurations and various enclosure (box) sizes and arrangements. This model is based on over six times the tests performed for the model used in the 2002 standard. It provides additional modeling of electrode configurations which were not included in the 2002 version. Some guidance on identifying electrode configurations are provided.

Published in: 2019 IEEE Petroleum and Chemical Industry Committee Conference (PCIC)

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IEEE Standards Developments

IEEE Standards development process may result in one or more of the following documents:

- **New:** Replaces or modifies another standard.
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- **Corrigendum:** Corrects technical errors or ambiguities in an existing IEEE standard. A corrigendum does not introduce new material.
- **Erratum:** Corrects grammatical errors or errors introduced during the publishing process of an existing IEEE standard.

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- **Drafts** - Developing standards projects that have not yet been approved as standards
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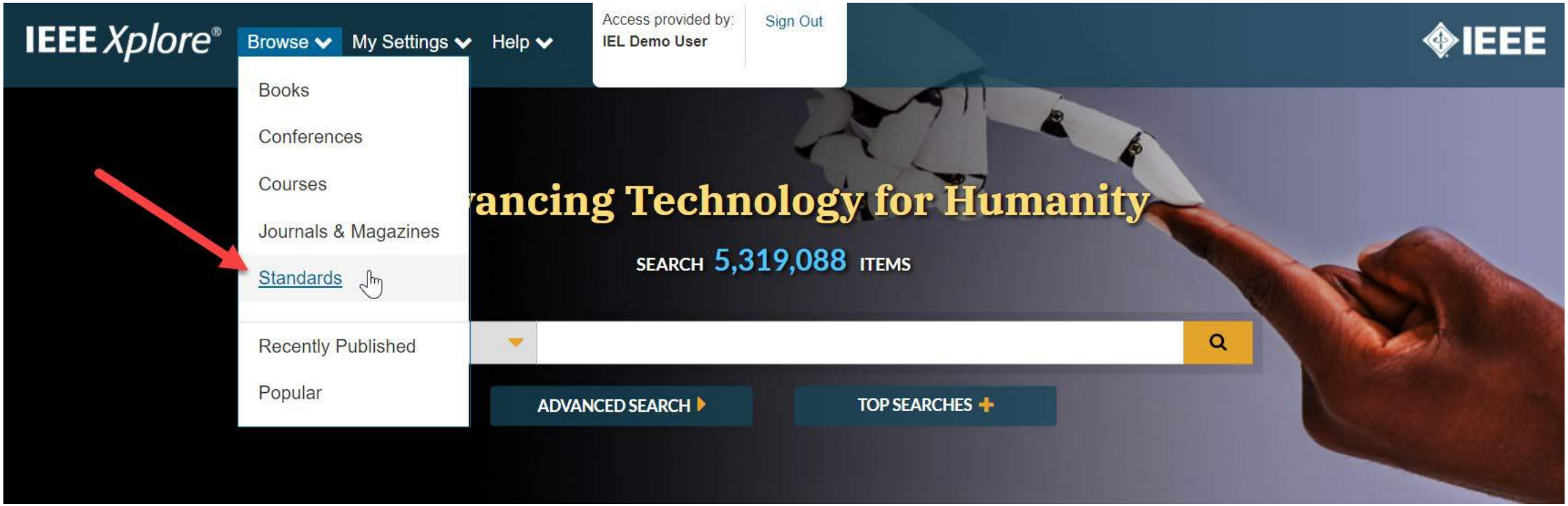

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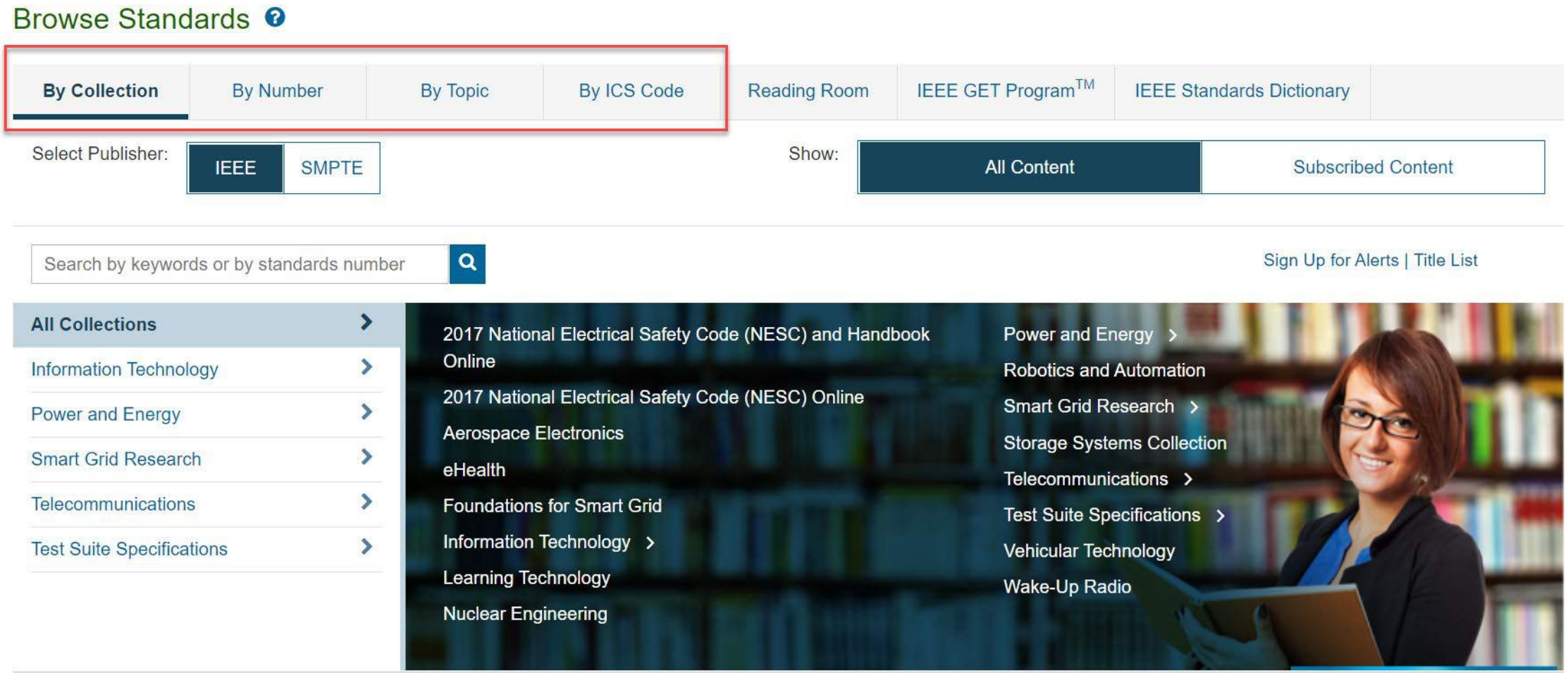
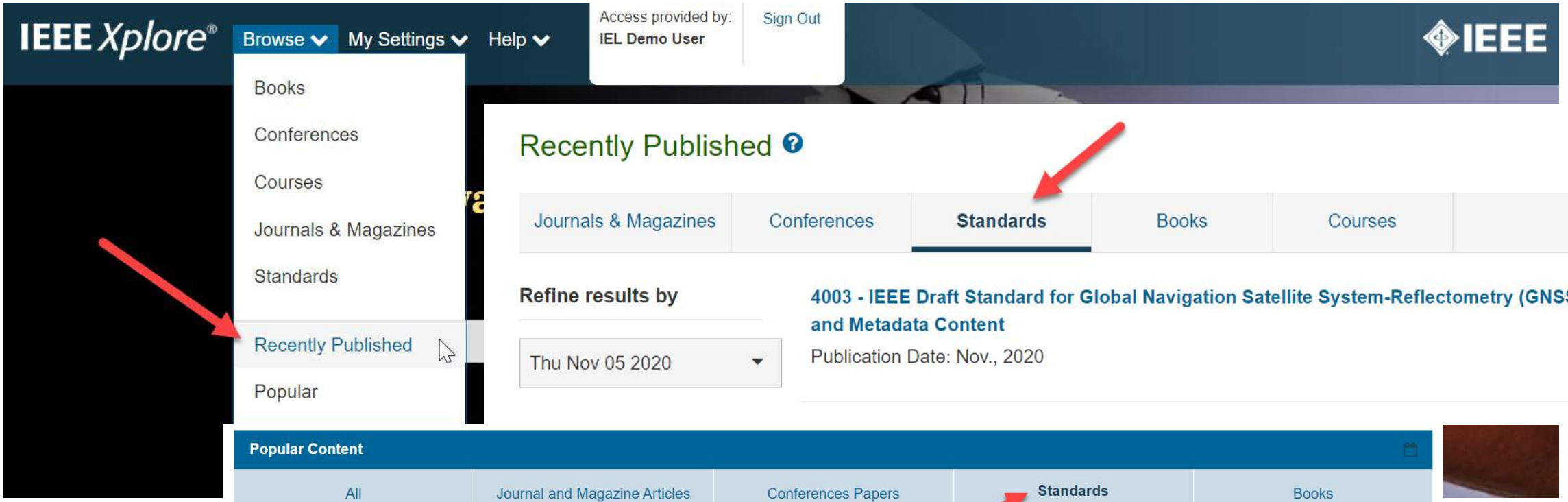
Browse Standards: Many Options…



Recently Published and Most Popular Standards



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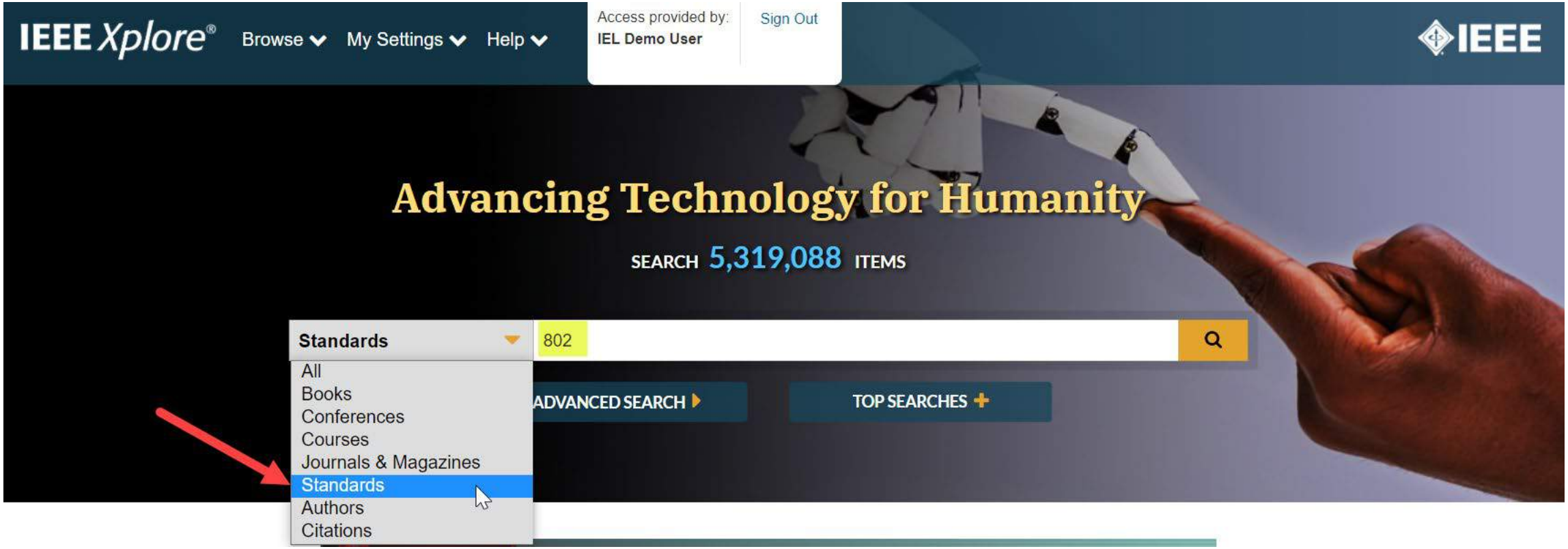

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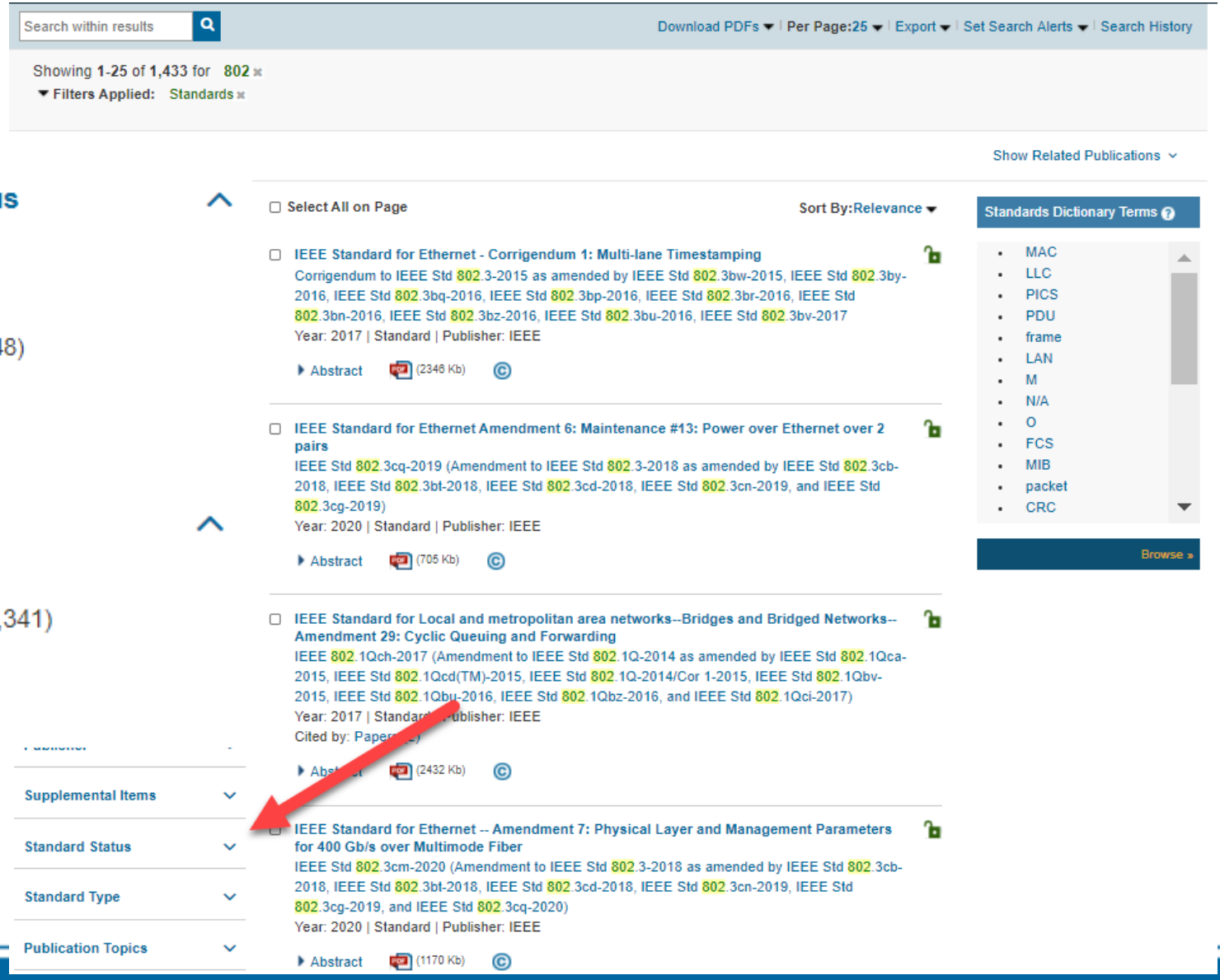

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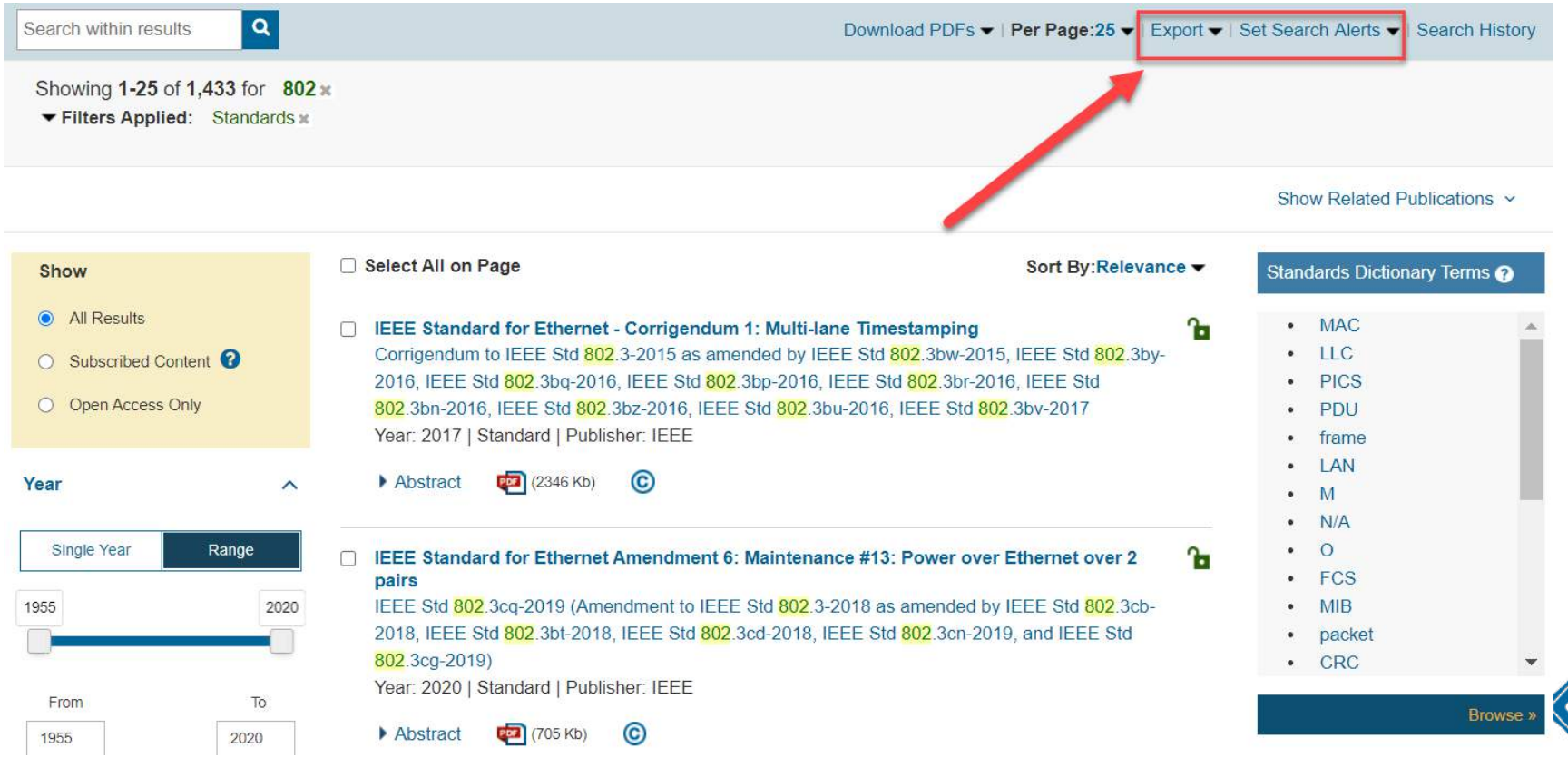

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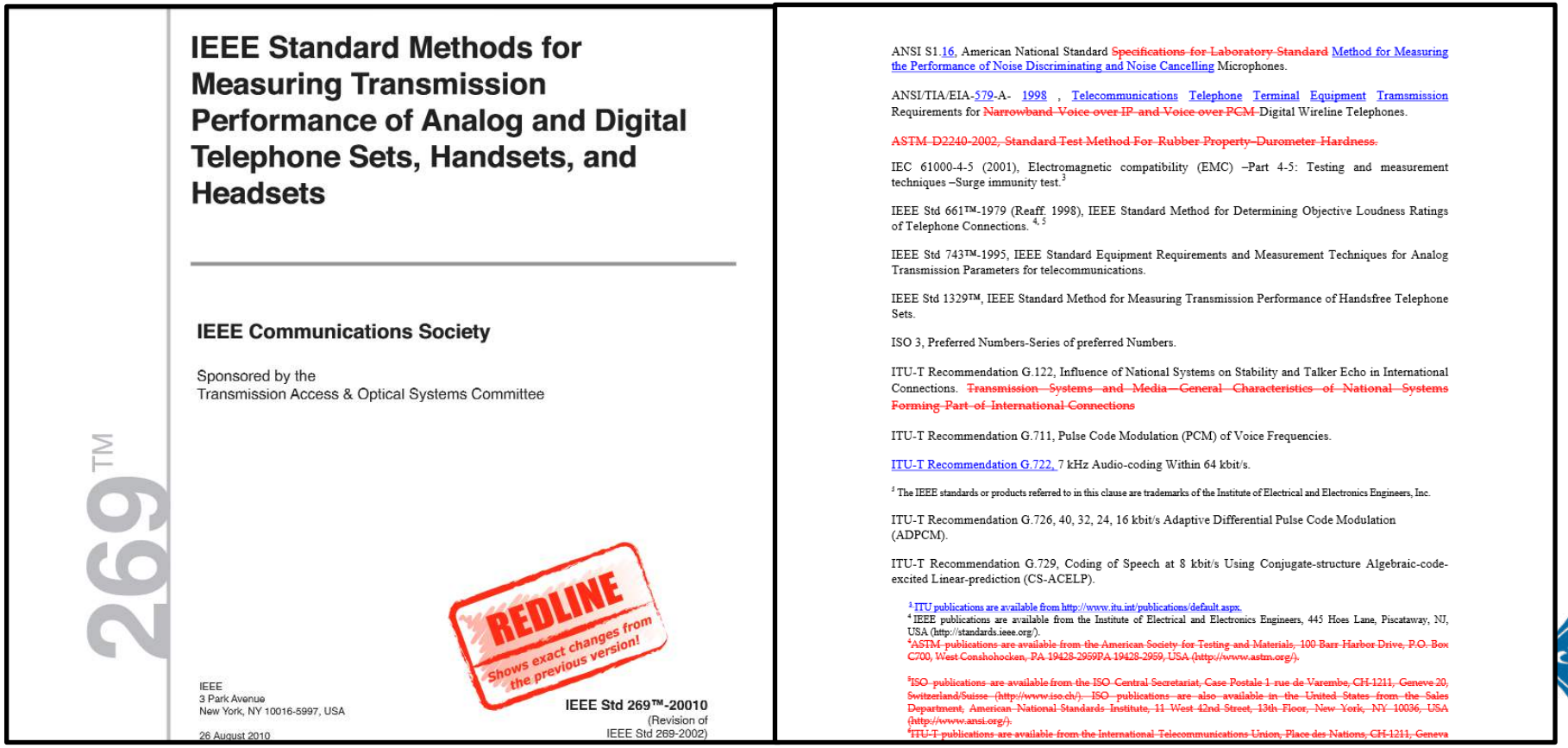

IEEE Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets

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26 August 2010

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ANSI S1.16, American National Standard ~~Specifications for Laboratory Standard~~ Method for Measuring the Performance of Noise Discriminating and Noise Cancelling Microphones.

ANSI/TIA/EIA-579-A- 1998 , Telecommunications Telephone Terminal Equipment Transmission Requirements for ~~Narrowband Voice over IP and Voice over PCM~~ Digital Wireline Telephones.

~~ASTM D2240-2002, Standard Test Method For Rubber Property–Durometer Hardness.~~

IEC 61000-4-5 (2001), Electromagnetic compatibility (EMC) –Part 4-5: Testing and measurement techniques –Surge immunity test.[3]

IEEE Std 661™-1979 (Reaff 1998), IEEE Standard Method for Determining Objective Loudness Ratings of Telephone Connections. [4, 5]

IEEE Std 743™-1995, IEEE Standard Equipment Requirements and Measurement Techniques for Analog Transmission Parameters for telecommunications.

IEEE Std 1329™, IEEE Standard Method for Measuring Transmission Performance of Handsfree Telephone Sets.

ISO 3, Preferred Numbers-Series of preferred Numbers.

ITU-T Recommendation G.122, Influence of National Systems on Stability and Talker Echo in International Connections. ~~Transmission Systems and Media—General Characteristics of National Systems Forming Part of International Connections~~

ITU-T Recommendation G.711, Pulse Code Modulation (PCM) of Voice Frequencies.

ITU-T Recommendation G.722, 7 kHz Audio-coding Within 64 kbit/s.

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ITU-T Recommendation G.726, 40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM).

ITU-T Recommendation G.729, Coding of Speech at 8 kbit/s Using Conjugate-structure Algebraic-code-excited Linear-prediction (CS-ACELP).

[3] ITU publications are available from http://www.itu.int/publications/default.aspx.
[4] IEEE publications are available from the Institute of Electrical and Electronics Engineers, 445 Hoes Lane, Piscataway, NJ, USA (http://standards.ieee.org/).
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~~[5]ISO publications are available from the ISO Central Secretariat, Case Postale 1 rue de Varembe, CH-1211, Geneve 20, Switzerland/Suisse (http://www.iso.ch/). ISO publications are also available in the United States from the Sales Department, American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036, USA (http://www.ansi.org/).~~
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