IEEE *Xplore*: Best Practices and Research Strategies

Presenter:
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IEEE Client Services Manager
5 March 2020

Panelist:
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IEEE Client Services Manager
5 March 2020

Welcome and thank you for joining! We will be getting started in just a few minutes.
Please note – all phones lines are muted. If you have a question, please use the chat function.

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Welcome to our Webinar!
IEEE *Xplore* Best Practices and Research Strategies

- Welcome
- IEEE *Xplore* overview
- Stay current with IEEE: new content additions, new tools and features
- Demo of IEEE *Xplore*
- Q&A using chat function

Please note – all phones lines are muted. If you have a question, please use the chat function and send it to Host, Presenters, and Panelists. We will have time for Q&A after the demo.

Jalyn Kelley, MLIS
IEEE Client Services Manager
This session is hosted by IEEE Client Services Manager Jalyn Kelley, a librarian and information professional with over 20 years of experience helping users develop research strategies to find the answers and information they need quickly and efficiently. Jalyn is a member of a global team of information professionals responsible for customer outreach, awareness and training programs for the IEEE *Xplore* digital library.

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  - Over 5 million total documents
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IEEE PES Scholar Razan Ghabin, an undergrad at Texas A&M, working on a water purification project in EL Salvador

IEEE Smart Village project empowering villages in sub-saharan Africa

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IEEE Quality Makes an Impact

- Latest studies reinforce that the top cited publications in the world are from IEEE*
  - All of the top 20 journals in EE
  - 18 of the top 20 journals in Telecommunications
  - 3 of the top 5 journals in Artificial Intelligence
- Cited in patents 3x more than any other publisher**
- Recent user studies demonstrate that users rely on IEEE *Xplore* to:
  - Increase productivity
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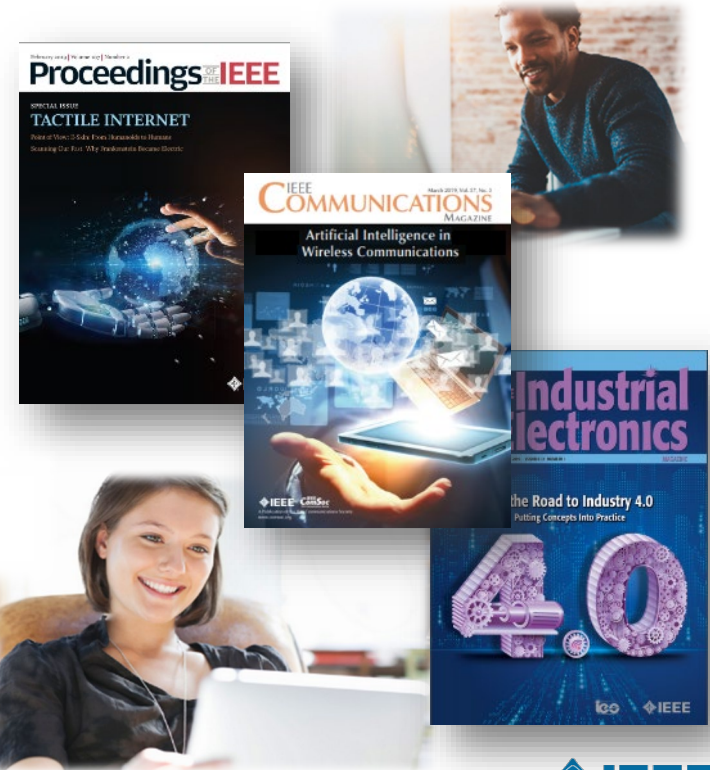
* Based on the Clarivate Analytics Journal Citation Report study released June 2019
** Source: 1790 Analytics
More info: www.ieee.org/citations and www.ieee.org/patentcitations

IEEE Quality Makes an Impact

Journal Citation Reports® by Impact Factor

IEEE journals are:

 # 1 in Artificial Intelligence

 # 1 in Automation and Control

 # 1 in Computer Hardware

 # 1 in Cybernetics

 # 1 in Electrical Engineering

 # 1 in Imaging Science & Photographic Technology

 # 1 in Industrial Engineering

 # 1 in Information Systems

 # 1 in Instruments and Instrumentation

 # 1 in Remote Sensing

 # 1 in Telecommunications

 # 1 in Theory and Methods

Source: 2018 Journal Citation Reports (Clarivate Analytics, 2019)

Journal Citation Reports present quantifiable statistical data that provide a systematic, objective way to evaluate the world's leading journals.

IEEE Research Powers Patents

IEEE is the most-cited publisher in new patents from top patenting organizations.

- Patent referencing to IEEE **increased over 800%** since 1997

- Inventions that build upon IEEE publications are more likely to be cited in the future

- The importance of sci-tech literature in patents is rising

- IEEE dominates in patents related to **Autonomous Vehicles** and **Internet Of Things**

Number of U.S. Patent References from Top 30 Companies to Top 20 Publishers

PUBLISHER	# of U.S. Patents
IEEE	390,314
ACM	127,692
3GPP	85,359
RELX Group (Elsevier)	81,983
American Institute of Physics	35,714
John Wiley & Sons	29,940
Springer	29,034

IEEE is cited 3X more than any other publisher!
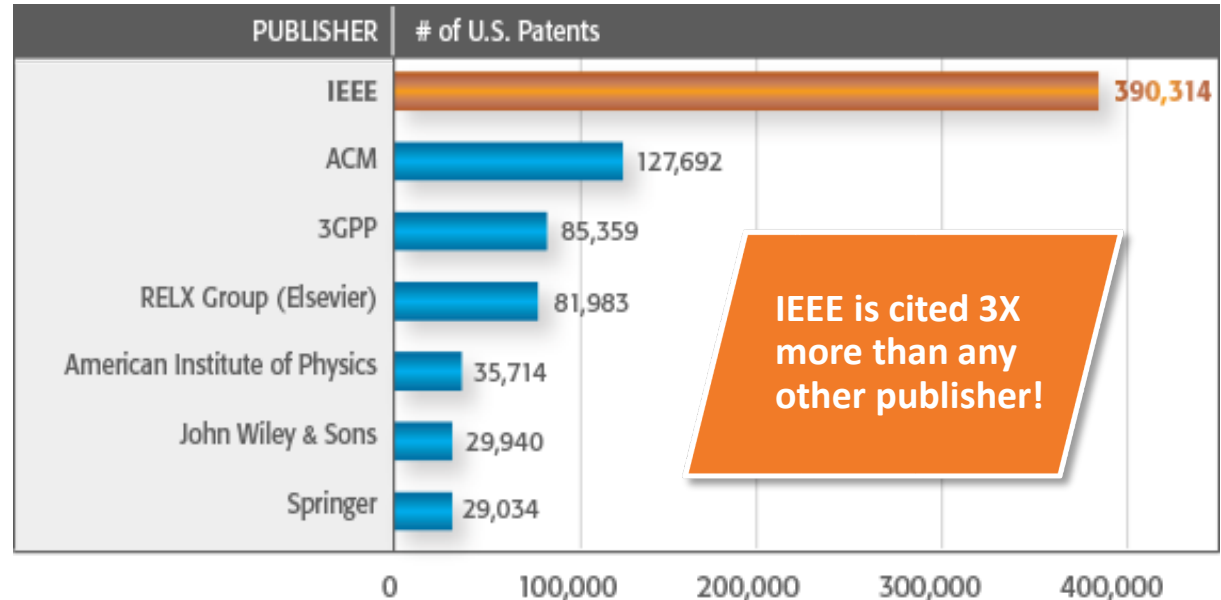
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The technology landscape is constantly evolving and so are IEEE publications.

IEEE introduces new publications to address growing areas of research that transform our lives such as IoT, Blockchain, Big Data, Machine Learning, Renewable Energy, 5G, Autonomous Vehicles, Secure Computing, Robotics, and more.

Coverage of all of these technologies can be found in current and forthcoming publications from IEEE.

New IEEE Journals Coming in 2020

These new journal titles* will soon be available and accessible via subscription:

- IEEE Journal of Emerging and Selected Topics in **Industrial Electronics**

- IEEE Journal on Selected Areas in **Information Theory**

- IEEE Transactions on **Technology and Society**

*Please note this is a tentative list and is subject to change.

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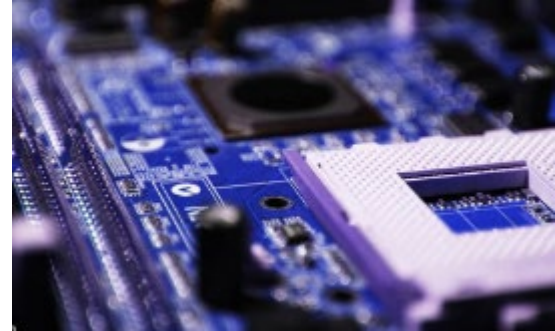
New IEEE Journals in 2019

These new journal titles are now accessible via subscription:

- IEEE **Networking Letters**

- IEEE Journal on Miniaturization for **Air and Space Systems**

- IEEE Transactions on **Biometrics, Behavior and Identity Science**

- IEEE Journal on **Electromagnetic Compatibility** Practice and Applications

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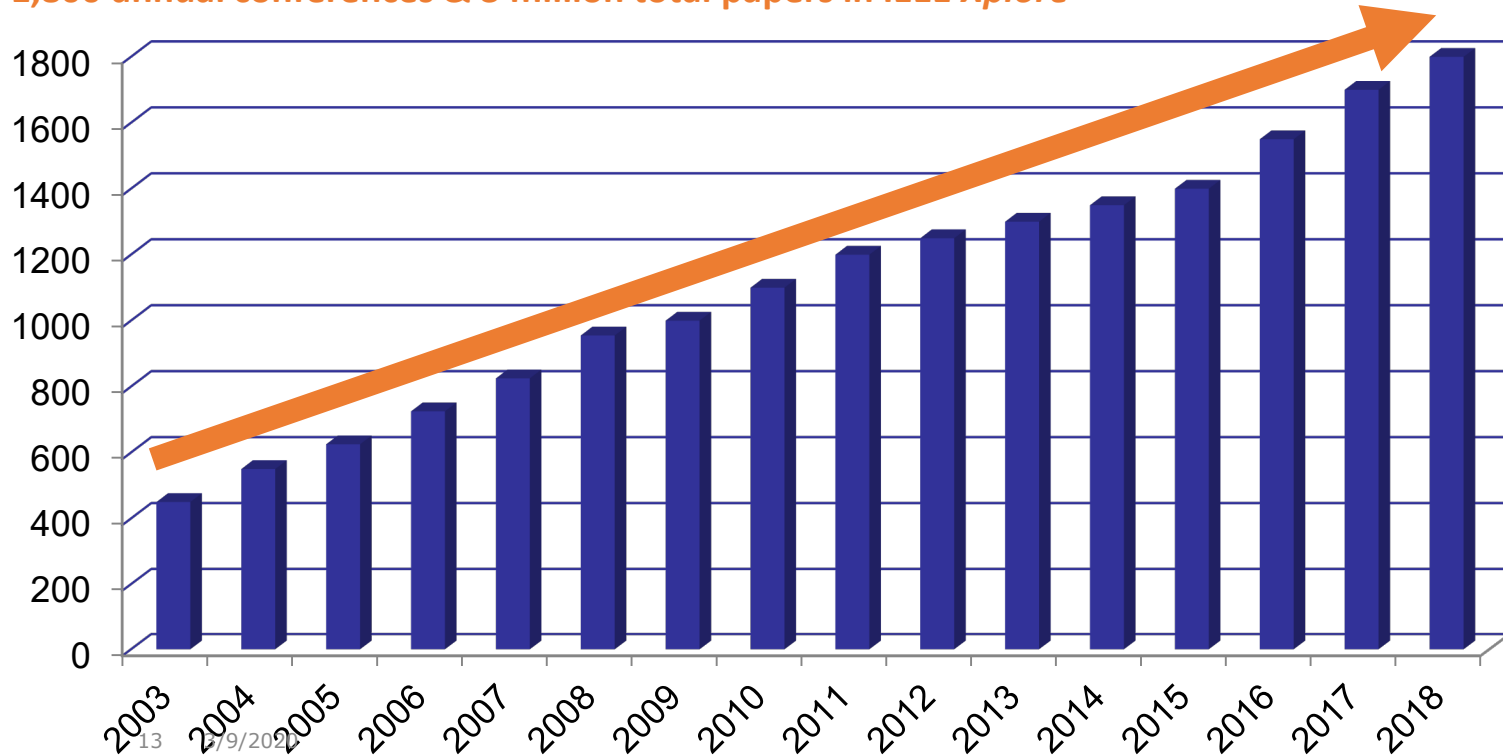
A sampling of some of the new conferences added to IEEE *Xplore*

IEEE International Conf. on **Artificial Intelligence Circuits and Systems** (AICAS)

IEEE International Conf. on **Blockchain and Cryptocurrency** (ICBC)

IEEE 6th International Conf. on **Energy Smart Systems** (ESS)

IEEE **Sustainability** through ICT Summit (StICT)

IEEE International Conf. on **Artificial Intelligence** Testing (AITest)

IEEE International Conf. on **Decentralized Applications and Infrastructures**

IEEE Asia **Power and Energy** Engineering Conference (APEEC)

International Conf. on **Control of Dynamical and Aerospace Systems** (XPOTRON)

IEEE International Conf. on **Flexible and Printable Sensors and Systems** (FLEPS)

Latin American **Electron Devices** Conference (LAEDC)

IEEE International Conf. on Industry 4.0, **Artificial Intelligence, and Communications Technology** (IAICT)

IEEE Decentralized **Energy Access Solutions** Workshop (DEAS)

IEEE **PES GTD** Grand International Conference and Exposition Asia (GTD Asia)

Note: this is a partial listing of new conferences and is not all-inclusive or final. Information is subject to change.

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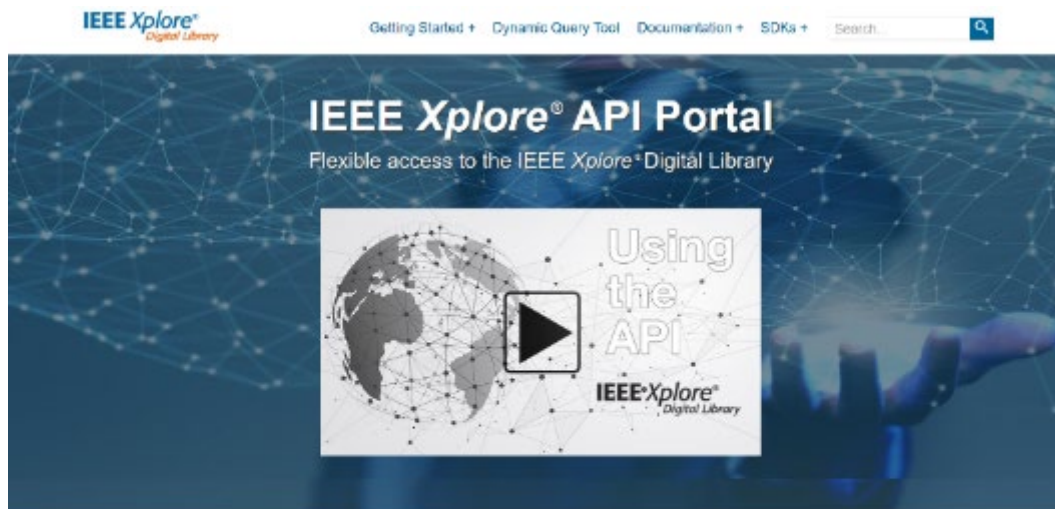
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Quick Start Guide

Step 1: Register for a User Account

Step 2: Obtain an API Key (issued by IEEE after review of user account information)

Each API key is associated with a specific user account and is required to make API requests. API keys are issued during 8 a.m. – 5 p.m. Eastern time, Monday – Friday.

Step 3: Start Using the API

Interested in quickly trying out the API?
Sign in and use the Interactive Documentation. Your API key will be pre-loaded. You can also manually enter your API key if needed.

Need a standard-based library to access the API?
Choose from the SDKs available in Java or PHP or Python

Prefer to write your own API queries?
Read the API documentation to find out how to construct queries, available query parameters, specifying response formats, and other items.

17

IEEE Supports Open Science and Reproducible Research

In addition to the full-text article, users also want access to data and research artifacts to try to reproduce the results and see if the hypothesis holds. So IEEE introduced:

- **Code Ocean** – Allows authors to publish code or algorithms associated with research articles in a computable environment and linked to IEEE *Xplore*. Authors can upload code free of charge and users can access code without a subscription.

- **IEEE *DataPort*** – Enables authors to publish large data sets associated with their research. Limited time promo allows users to upload an Open Access Dataset at no cost.

- **TechRxiv** – IEEE launched a new Preprint Server for Engineering and Technology, a service that lets authors post early and fully open versions of their articles, prior to peer review and prior to being published.

These enhancements improve the extent we can help researchers communicate the value of their research by facilitating the communication and availability of their research findings online.
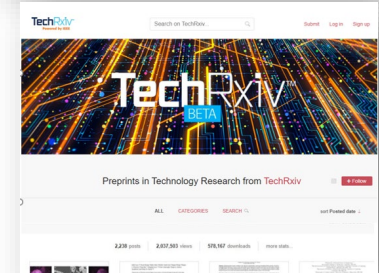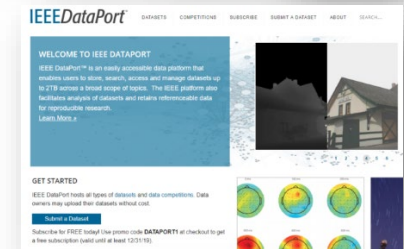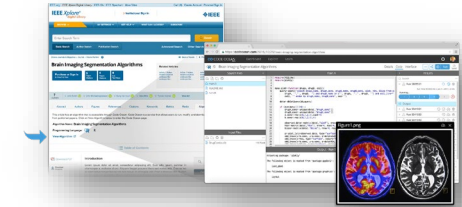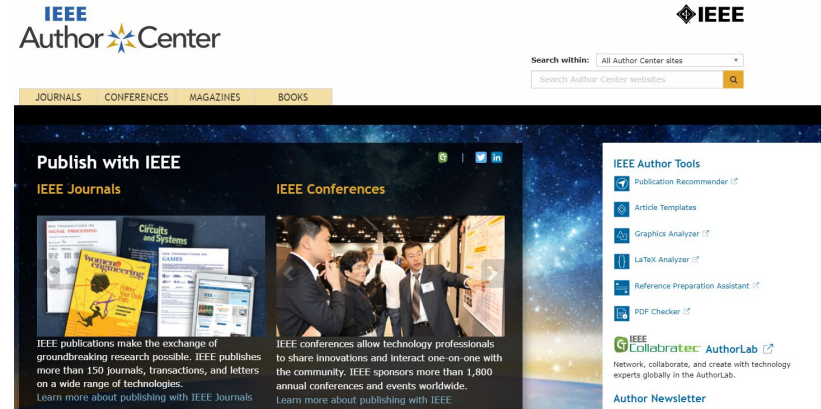
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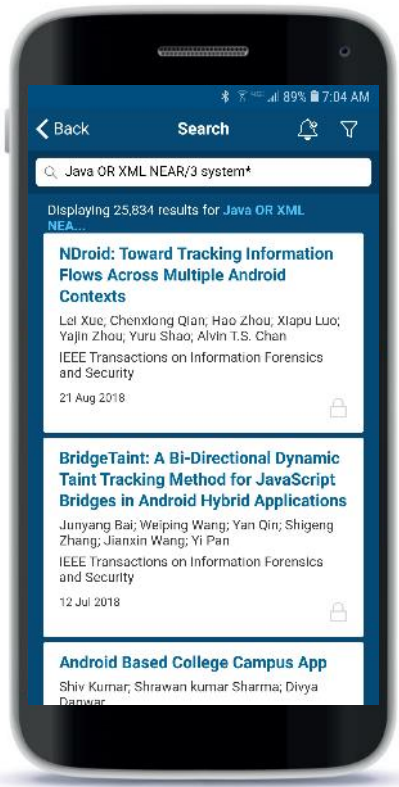

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