

2024

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Artificial Intelligence  
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Autonomous Vehicles  
Biomedical Engineering  
Biometrics  
Circuits & Systems  
Communications  
Computer Hardware  
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Engineering  
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Information Technology  
Internet of Things (IoT)  
Machine Learning  
Medical Devices  
Nanotechnology

Optics  
Petroleum & Gas  
Power Electronics  
Power Systems  
Robotics & Automation  
Semiconductors  
Smart Grid  
Sustainable Energy  
Wireless Broadband  
and more

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# IEEE Electronic Library (IEL)

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The IEL subscription provides access to a backfile as far back as the late 1800s for select titles, complimentary for all active subscribers.

Also includes complimentary access to IEEE Redline Versions of Standards (where available), select VDE conference papers, IET's *E&T Magazine*, proceedings from IET conferences and events, and seminal articles from *Bell Labs Technical Journal* archive.

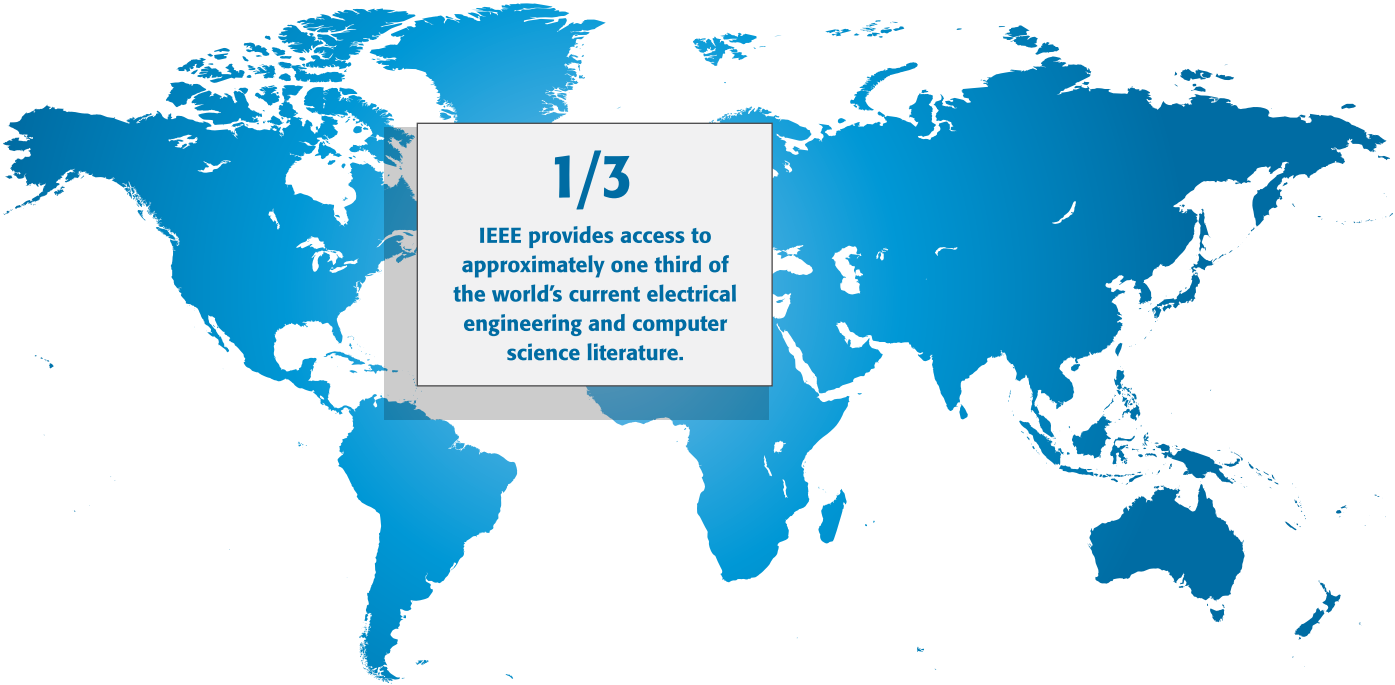
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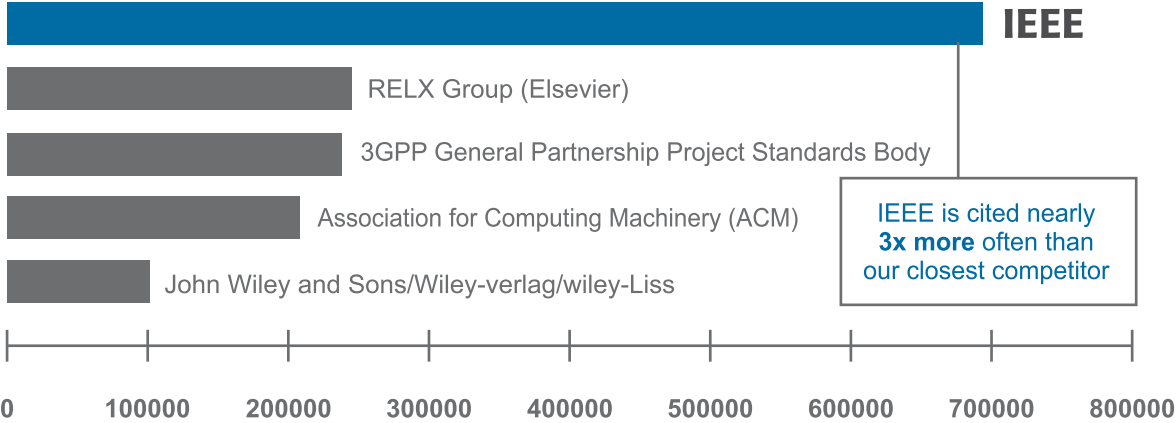
# Most Trusted Information in Technology



## Top Patenting Organizations Rely on IEEE Research

IEEE journals and conference proceedings received over 690,000 patent citations—**nearly three times more than any other publisher.** In fact, references to IEEE papers have increased 842% since 1997, according to recent studies by 1790 Analytics LLC.

### Patent References to the Top 5 Publishers



Source: 1790 Analytics LLC, Copyright 2023.

For a free copy of the white paper “IEEE and Patents: An Analysis of Patent Referencing to IEEE Papers, Conferences, and Standards,” visit [www.ieee.org/patentcitations](http://www.ieee.org/patentcitations)

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## Citations to IEEE Journals Continue to Climb

Each year, the Journal Citation Reports™ (JCR) from Clarivate Analytics examines the impact of scholarly journals by determining how often a journal's articles are cited by later research.

According to the most recent report, IEEE publishes:	
15 of the top 20 journals in Electrical and Electronic Engineering	
10 of the top 10 journals in Telecommunications	
3 of the top 5 journals in Automation & Control Systems	
5 of the top 10 journals in Computer Science, Artificial Intelligence	
The top 3 journals in Computer Science, Cybernetics	
3 of the top 5 journals in Computer Science, Hardware & Architecture	
3 of the top 5 journals in Computer Science, Information Systems	

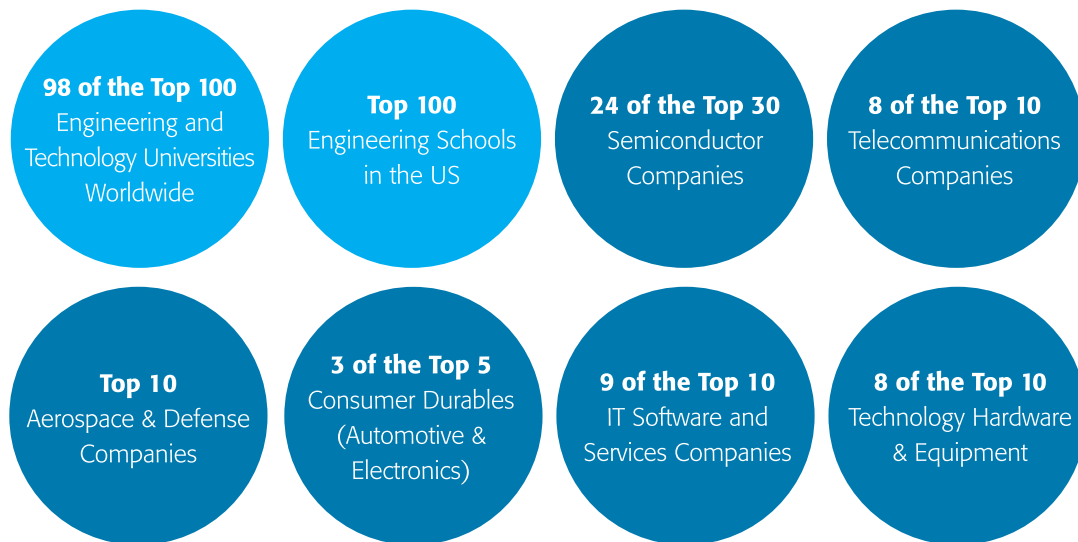
The JCR ranks journals by their Journal Impact Factor™, defined as the average number of times articles published in a specific journal in the previous two years were cited in a particular year.

Source: 2022 Journal Citation Reports (Clarivate Analytics, 2023).

For more information on IEEE journal citation rankings, visit [www.ieee.org/citations](http://www.ieee.org/citations)

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Sources: *Times Higher Education*, World University Rankings 2023, Subject Ranking: Electrical & Electronic Engineering  
*U.S. News & World Report*, Top Engineering Graduate Schools of 2023–24  
2023 Forbes Global 2000  
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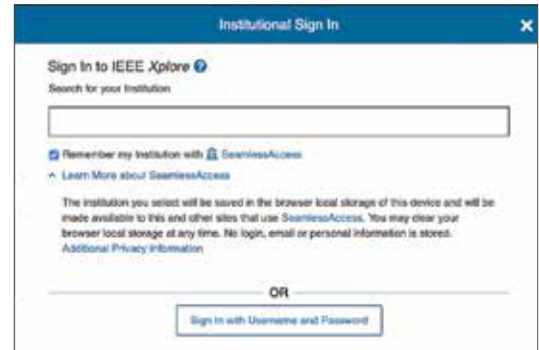
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# IEEE *Xplore*: Delivering Innovative Research Better than Ever

The IEEE *Xplore* Digital Library delivers IEL to users' computers or mobile devices. Just as the content within IEEE *Xplore* grows each year, the platform is also continuously upgraded to enable users to easily find and discover the solutions they need. Following are some recent and upcoming enhancements to the platform.

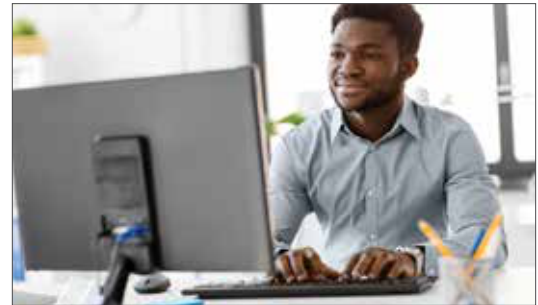
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IEEE *Xplore* is aligned with industry standards for seamless access authentication, making it easier and more convenient for users to quickly log in and begin their research.



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Save key documents with the relaunch of My Research Projects, now with enhanced features. Users can create up to 15 projects to save as many as 1,000 documents per project. Users must sign in with their free IEEE personal account to access this feature.



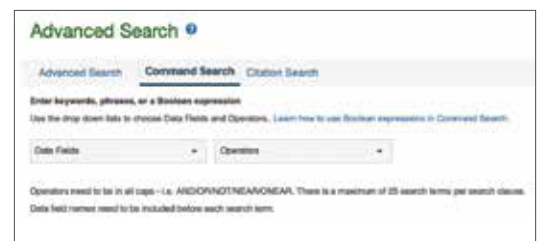
## My Favorite Journals and Magazines

This module on the IEEE *Xplore* homepage provides direct links to bookmarked journal and magazine homepages, and the latest issues. Users must sign in with their free IEEE personal account to access this feature.



## Advanced Search Enhancements

Increased the maximum number of wildcards per search to eight and the maximum number of search terms to 25 per search clause (consecutive search terms not separated by a Boolean operator). In addition, searchers can now type Boolean operators ("AND", "OR", "NOT") into search boxes.



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# Your Source for New and Emerging Technologies

The technology landscape is constantly evolving and so are IEEE publications. Each year, IEEE continues to provide **the content needed to lead innovation into the future.**

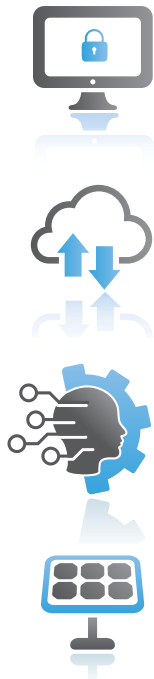
## New Subscription Titles for 2023 and 2024

*IEEE Transactions on AgriFood Electronics*  
*IEEE Electron Devices Magazine*  
*IEEE Transactions on Energy Markets, Policy and Regulation*  
*IEEE Transactions on Industrial Cyber-Physical Systems*  
*IEEE Transactions on Materials for Electron Devices*  
*IEEE Transactions on Radar Systems*  
*IEEE Reliability Magazine*  
*IEEE Robotics and Automation Practice*



Listing current as of 1/2024, subject to change.

## A Sample of Conferences Published in 2023 Covering Innovative Technologies



2023 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)  
2023 IEEE/SEMI Conference on Advanced Semiconductor Manufacturing  
2023 IEEE 2nd International Conference on AI in Cybersecurity  
2023 IEEE 21st Symposium on Applied Machine Intelligence and Informatics (SAMI)  
2023 3rd International Conference on Artificial Intelligence and Smart Energy (ICAIS)  
2023 IEEE 8th International Conference on Big Data Analytics (ICBDA)  
2023 6th Conference on Cloud and Internet of Things (CIoT)  
2023 IEEE 20th Consumer Communications & Networking Conference (CCNC)  
2023 Optical Fiber Communications Conference (OFC)  
2023 7th International Conference on Green Energy and Applications (ICGEA)  
2023 IEEE Innovative Smart Grid Technologies Conference (ISGT)  
2023 IEEE Conference on Power Electronics and Renewable Energy (CPERE)  
2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies  
2023 International Conference on Robotics and Automation in Industry (ICRAI)  
2023 IEEE International Solid-State Circuits Conference (ISSCC)  
2023 International Symposium on Medical Robotics (ISMR)

\*Note: This list of new conferences is not all-inclusive or final; it is based on information available as of 09/2023 and is subject to change.

To browse all IEEE conferences, please visit [www.ieee.org/ieeexplore](http://www.ieee.org/ieeexplore)

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- The latest information on new and emerging technologies
- Fast, mobile-friendly interface that's easy to access from anywhere



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# IEEE Standards: Maximize Product Development

## Keep Abreast of the Newest Technologies with IEEE Standards

IEEE standards drive the functionality, capabilities, and interoperability of a wide range of products, services, and technologies that transform the way people live, work, and communicate.

### New IEEE Standards Recently Added to IEEE *Xplore* Include:

**IEEE Std 3129-2023:** IEEE Standard for Robustness Testing and Evaluation of Artificial Intelligence (AI)-based Image Recognition Service

**IEEE Std 3205-2023:** IEEE Standard for Blockchain Interoperability Data Authentication and Communication Protocol

**IEEE Std 338-2022:** IEEE Standard for Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety Systems

**IEEE P933/D2:** IEEE Draft Guide for the Definition of Reliability Program Plans for Nuclear Generating Stations and Other Nuclear Facilities

**IEEE Std 1010-2022:** IEEE Guide for Control of Hydroelectric Power Plants

**IEEE Std 3207-2022:** IEEE Standard for Blockchain-Based Digital Asset Identification

**IEEE P1616.1/D8:** IEEE Approved Draft Standard for Data Storage Systems for Automated Driving

**IEEE Std 1833-2023:** IEEE Guide for Design of Direct Current Overhead Contact Systems for Transit Systems

**IEEE Std 2841-2022:** IEEE Recommended Practice for Framework and Process for Deep Learning Evaluation

### Examples of Popular Standards in IEEE *Xplore*\*:

**IEEE Std 802.3-2022:** IEEE Standard for Ethernet (Revision of IEEE Std 802.3-2018)

**IEEE Std 1800-2017:** IEEE Standard for SystemVerilog—Unified Hardware Design, Specification, and Verification Language (Revision of IEEE Std 1800-2012)

**IEEE Std 802.11-2020:** IEEE Standard for Information Technology—Telecommunications and Information Exchange between Systems—Local and Metropolitan Area Networks—Specific Requirements—Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications (Revision of IEEE Std 802.11-2016)

**IEEE Std 802.11ax-2021:** IEEE Standard for Information Technology—Telecommunications and Information Exchange between Systems Local and Metropolitan Area Networks—Specific Requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment 1: Enhancements for High-Efficiency WLAN (Amendment to IEEE Std 802.11-2020)

**IEEE Std 519-2022:** IEEE Standard for Harmonic Control in Electric Power Systems (Revision of IEEE Std 519-2014)

\*Information current as of 11/2023

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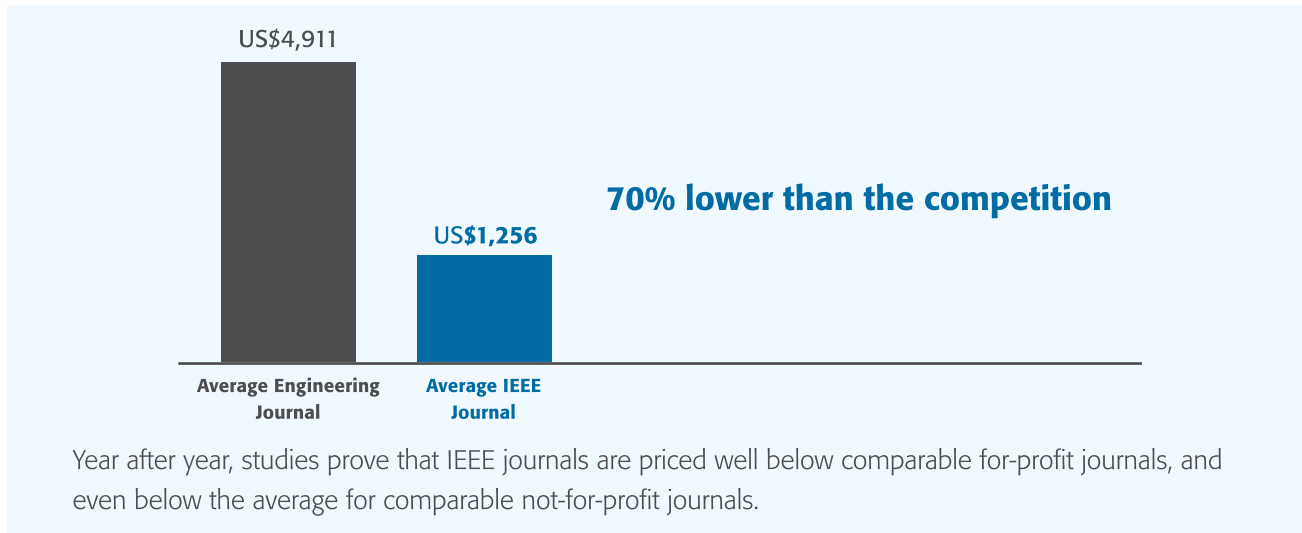
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# IEL: The Best Value in Your Collection

## IEEE Journals Priced Below the Competition

According to *Library Journal* (April 2023), the average cost of an engineering journal is US\$4,911. But the average cost of an IEEE journal is just US\$1,256.



Year after year, studies prove that IEEE journals are priced well below comparable for-profit journals, and even below the average for comparable not-for-profit journals.

## Subscribe to IEL and Save Even More

The IEEE Electronic Library delivers access to technology's most trusted journals, conference proceedings, and standards—giving you the **research you need at an exceptional value.**

### Value of Individual Titles in IEL

IEEE Conference Proceedings and backfile	US\$754,279
IEEE Periodicals and backfile	US\$444,995
IEEE Standards Collection	US\$422,110
IET Conferences	US\$13,631
VDE Conferences Collection	US\$12,518
<i>Proceedings of the IEEE</i>	US\$1,485
<i>IEEE Spectrum</i>	US\$599
Total value of all IEL content if purchased separately US\$1,649,617	

### A typical IEL subscription is just a fraction of the total cost!

Subscribing to all current IEL content separately could cost more than US\$1.6 million per site. Compare that with the standard IEL subscription (single-site price including A&I and backfile) at a fraction of the price\*—and the value of IEL is obvious.

**IEL costs less, includes more content, and provides research that puts you at the forefront of technology.**

\*Contact your IEEE Account Manager for pricing information specific to your organization.

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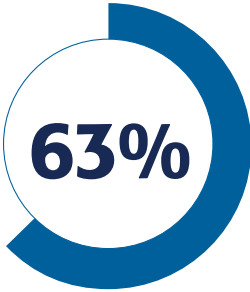
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# Improve ROI through Smarter Research

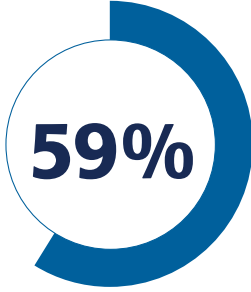
IEEE conducted surveys with more than 1,000 professionals across various technology industries. Based on those survey responses, organizations receive measurable returns on their investment when their researchers use the IEEE *Xplore* Digital Library.

## What are some of the *reasons and business advantages* for using IEEE *Xplore*?

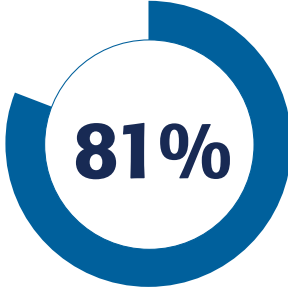
% of Respondents



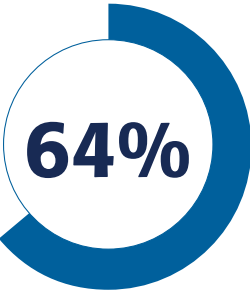
Get up to speed quickly on a topic



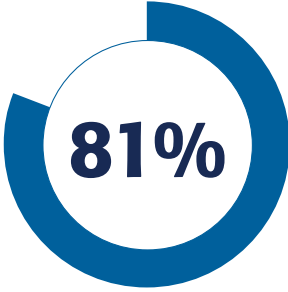
Reference prior research to guide current projects



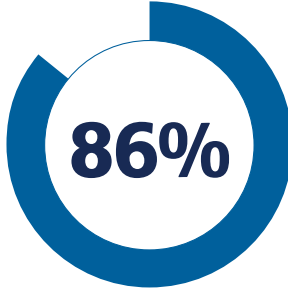
Maintain productive and collaborative in remote/hybrid work environment



Keep up-to-date



Supports productivity



Saves time

Collectively, the results reveal the main business advantage of using IEEE *Xplore* is that it sets the stage for a cycle of ongoing, interrelated process improvements and product innovations.

### Reduce the Cost of Research

Less time spent during the research phase of a project significantly improves ROI. Half of all survey respondents say that IEEE *Xplore* greatly reduces research time, with many respondents indicating that it cuts their research or project time in half.



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## Customer Success Stories

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Engineers face many challenges during the innovation process. IEEE recently interviewed IEEE *Xplore* users to understand their day-to-day obstacles and how access to IEEE *Xplore* helps to overcome them.

### Accelerating the Lengthy Research Process

Using IEEE *Xplore* during the research phase can greatly reduce project time, allowing engineers to be more productive and move projects forward at a faster pace.



“I wish I had it my entire career. It really has made finding the necessary references easier, and in some respects, actually fun.”

—Systems Engineer  
*Leading Aerospace Company*

#### Challenge

An aerospace systems engineer researching the laser absorption of a plastic at a particular wavelength was looking for an alternative to physical testing, which can often be very costly and can take days or even weeks to complete.

#### Solution

With IEEE *Xplore*, this engineer was able to quickly find physical measurements pertinent to his study that were already recorded in published papers. This saved both time and money by eliminating the costs of physical tests.

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### Staying One Step Ahead with Ongoing Education

IEEE *Xplore* gives engineers access to cutting-edge research that spans all aspects of technology, providing a vast range of knowledge and insight into unfamiliar topics often critical for driving innovation.



“Not having IEEE *Xplore* would be a significant loss to me. It’s very much a go-to information resource for me ... It’s certainly one of the first places that I consult.”

—Design Engineer  
*Leading Defense Company*

#### Challenge

A design engineer for a leading defense company needed to troubleshoot a gallium nitride amplifier—a device with which he had little experience. To find the issue and solution, he first needed to learn more about the amplifier itself and how it worked.

#### Solution

Leveraging the electronic design research in IEEE *Xplore*, he was able to gather information on the amplifier and its behaviors to understand what he was observing in the lab and accurately troubleshoot the build.

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# IEEE Journals Included in IEL

## Journal Titles

## Online Price

### Aerospace

Aerospace and Electronic Systems Magazine, IEEE (M-AES)	\$685
Aerospace and Electronic Systems, IEEE Trans. on (T-AES)	\$3,675
Miniaturization for Air and Space Systems, IEEE Journal on (J-MASS)	\$380
Radar Systems, IEEE Trans. on (T-RS)	\$1,055

### Antennas

Antennas and Propagation Magazine, IEEE (M-AP)	\$785
Antennas and Propagation, IEEE Trans. on (T-AP)	\$2,955
Antennas and Wireless Propagation Letters, IEEE (L-AWP)	\$1,165

### Biomedical

Biomedical and Health Informatics, IEEE Journal of (J-BHI)	\$875
Biomedical Circuits and Systems, IEEE Trans. on (T-BCAS)	\$735
Biomedical Engineering, IEEE Reviews in (R-BME)	\$330
Biomedical Engineering, IEEE Trans. on (T-BME)	\$3,255
Computational Biology and Bioinformatics, IEEE/ACM Trans. on (T-CBB)	\$650
Electromagnetics, RF and Microwaves in Medicine and Biology, IEEE Journal of (J-ERM)	\$635
Medical Imaging, IEEE Trans. on (T-MI)	\$3,905
Medical Robotics and Bionics, IEEE Trans. on (T-MRB)	\$485
NanoBioscience, IEEE Trans. on (T-NB)	\$840
Neural Networks and Learning Systems, IEEE Trans. on (T-NNLS)	\$5,665
IEEE Pulse (M-PULSE)	\$770
Radiation and Plasma Medical Science, IEEE Trans. on (T-RPMS)	\$3,060

### Broadcasting and Digital Media

Broadcasting, IEEE Trans. on (T-BC)	\$225
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### Circuit Theory, Analysis, and Design

Circuits and Systems for Video Technology, IEEE Trans. on (T-CSVT)	\$1,680
Circuits and Systems Part I: Regular Papers, IEEE Trans. on (T-CAS1)	\$1,865
Circuits and Systems Part II: Express Briefs, IEEE Trans. on (T-CAS2)	\$1,545
Industrial Cyber-Physical Systems, IEEE Trans. on (T-ICPS)	\$1,295
Molecular, Biological, and Multi-Scale Communications, IEEE Trans. on (T-MBMS)	\$530

### Circuits and Devices

AgriFood Electronics, IEEE Trans. on (T-AFE)	\$1,250
Circuits and Systems Magazine, IEEE (M-CAS)	\$720
Emerging and Selected Topics in Circuits and Systems, IEEE Journal on (JETCAS)	\$1,130
Flexible Electronics, IEEE Journal on (J-FLEX)	\$540
Radio Frequency Identification, IEEE Journal of (J-RFID)	\$605

### Communication and Information

Cognitive Communications and Networking, IEEE Trans. on (T-CCN)	\$885
Communications Letters, IEEE (L-COMM)	\$935
Communications Magazine, IEEE (M-COMM)	\$1,110
Communications, IEEE Trans. on (T-COMM)	\$2,665
Communications Standards Magazine, IEEE (M-COMSTD)	\$470
Communications Surveys & Tutorials, IEEE (COMST)	\$895
Pervasive Computing Magazine, IEEE (M-PVC)	\$935
Selected Areas in Communications, IEEE Journal on (J-SAC)	\$2,570

### Communications Networks/Systems

Green Communications and Networking, IEEE Trans. on (T-GCN)	\$680
Network and Service Management, IEEE Trans. on (T-NSM)	\$440
Network Science and Engineering, IEEE Trans. on (T-NSE)	\$665
Network, IEEE (M-NET)	\$785
Networking, IEEE/ACM Trans. on (T-NET)	\$1,280
IEEE Networking Letters (L-NET)	\$610

### Computational Intelligence

Affective Computing, IEEE Trans. on (T-AFFC)	\$780
Cognitive and Developmental Systems, IEEE Trans. on (T-CDS)	\$1,395
Computational Intelligence Magazine, IEEE (M-CI)	\$80
Emerging Topics in Computational Intelligence, IEEE Trans. on (T-ETCI)	\$1,165
Evolutionary Computation, IEEE Trans. on (T-EVC)	\$1,715
Fuzzy Systems, IEEE Trans. on (T-FUZZ)	\$3,740
Games, IEEE Trans. on (T-G)	\$1,035
Intelligent Systems Magazine, IEEE (M-IS)	\$1,285

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Knowledge and Data Engineering, IEEE Trans. on (T-KDE)	\$2,645
Pattern Analysis and Machine Intelligence, IEEE Trans. on (T-PAMI)	\$3,820
Services Computing, IEEE Trans. on (T-SC)	\$545

### Computer Graphics

Computer Graphics and Applications Magazine, IEEE (M-CG&A)	\$1,390
Visualization and Computer Graphics, IEEE Trans. on (T-VCG)	\$1,890

### Computer Science & Engineering

Annals of the History of Computing, IEEE (M-AHC)	\$730
Artificial Intelligence, IEEE Trans. on (T-AI)	\$1,645
Big Data, IEEE Trans. on (T-BD)	\$840
Computer Architecture Letters, IEEE (L-CA)	\$180
Computer Magazine (M-C)	\$2,815
Computers, IEEE Trans. on (T-C)	\$3,195
Computing in Science and Engineering Magazine (CISE)	\$895
Design and Test Magazine, IEEE (M-D&T)	\$1,000
Embedded Systems Letters, IEEE (L-ES)	\$630
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	Annual International Conference of the IEEE Engineering in Medicine and Biology Society
	IEEE International Symposium on Circuits and Systems
	Antennas and Propagation Society International Symposium
	International Electron Devices Meeting
	IEEE International Symposium Geoscience and Remote Sensing
	IEEE International Conference on Communications
	IEEE Energy Conversion Congress and Exposition
	IEEE Conference on Decision and Control
	Annual IEEE Conference Applied Power Electronics Conference and Exposition
	IEEE International Conference Image Processing
	International Joint Conference on Neural Networks
	IEEE MTT-S International Microwave Symposium
	Annual Conference of Industrial Electronics Society
	IEEE Conference on Vehicular Technology
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Sensors and The Int'l Conf on New Techniques in Pharmaceutical and  
Biomedical Research, Asian Conf on  
Biomedical Imaging (ISBI), Int'l Symp on  
Neural Engineering (NER), Int'l IEEE/EMBS Conf on

### Circuits and Devices

Advanced Thermal Processing of Semiconductors (RTP), Int'l Conf on  
Circuits and Systems (ISCAS), IEEE Int'l Symp on  
Radio Frequency Integrated Circuits Symp (RFIC), IEEE  
Signals, Circuits and Systems (ISSCS), Int'l Symp on  
Solid-State Circuits Conf (ISSCC), IEEE Int'l

### Communication & Networks/Systems

Communications (ICC), IEEE Int'l Conf on  
Communications and Information Technologies (ISCIT), Int'l Symp on  
Next Generation Internet Networks (NGI), Conf on  
Pervasive Services, ACS/IEEE Int'l Conf on  
RadarCon, IEEE  
Ultra-Wideband (ICU), IEEE Int'l Conf on  
Global Communications Conference (GLOBECOM), IEEE

### Computing

Computer and Information Technology, Int'l Conf on  
Computer Vision & Pattern Recognition (CVPR), IEEE Conf on  
Electrical & Computer Engineering (CCECE), Canadian Conf on  
Machine Learning and Applications (ICMLA), Int'l Conf on  
Parallel and Distributed Systems (ICPADS), Int'l Conf on  
Services Computing (SCC), IEEE Int'l Conf on  
Systems, Man & Cybernetics, IEEE Int'l Conf on

### Control and Automation

Advanced Intelligent Mechatronics, IEEE/ASME Int'l Conf on  
American Control Conf (ACC)  
Control and Automation (ICCA), Int'l Conf on  
Intelligent Robots & Systems (IROS), IEEE/RJS Int'l Conf on  
Robotics & Automation (ICRA), IEEE Int'l Conf on

### Earth Science

Geoscience & Remote Sensing Symp (IGARSS), IEEE Int'l  
Remote Sensing of Atmospheric Aerosols, IEEE Wksp on

### Electron Devices

Applications of Ferroelectrics (ISAF), IEEE Int'l Symp on  
Design Automation Conf (DAC), ACM/IEEE  
Electromagnetic Compatibility, (EMC), IEEE Int'l Symp on  
Electron Devices and Solid-State Circuits (EDSSC), IEEE Conf on  
Industrial Electronics (ISIE), IEEE Int'l Symp on

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Imaging Systems and Techniques (IST), IEEE Int'l Wksp on  
Instrumentation & Measurement Technology Conf (IMTC), IEEE  
Sensors Conf, IEEE

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Quantum Electronics Conf (IQEC), Int'l

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Nuclear Science Symp Conf (NSS/MIC)  
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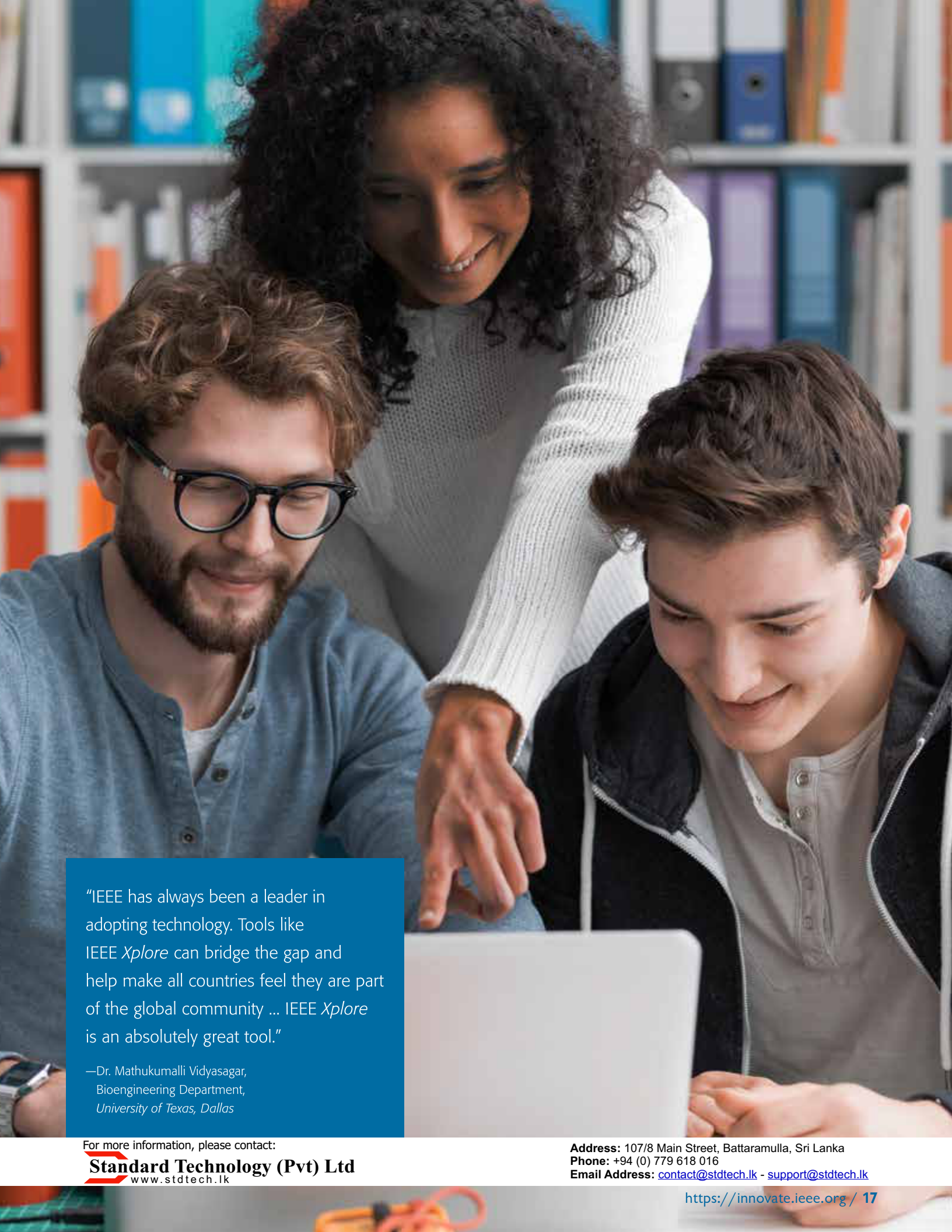
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