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> —James Nolan, AIPD Design, Microchip Technology

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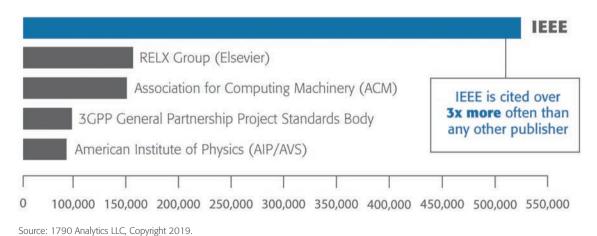
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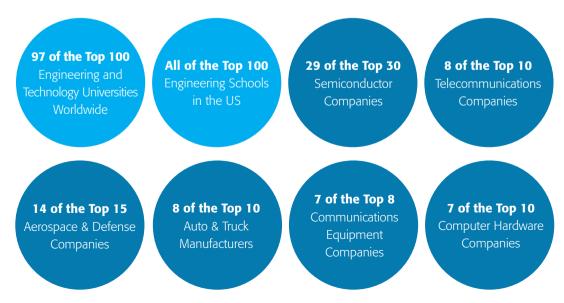
The JCR ranks journals by their journal impact factor, defined as the average number of times articles published in a specific journal in the previous two years were cited in a particular year.

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

For more information on IEEE journal citation rankings, visit www.ieee.org/citations

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Sources: Times Higher Education, Top Engineering & Technology Universities Worldwide 2019; U.S. News & World Report, Top U.S. Engineering Graduate Schools of 2020, ranked in 2019; 2019 Forbes Global 2000.

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.

Author Profile Pages

Enhanced and disambiguated author affiliation data provides a consolidated list of author's publications in IEEE Xplore making it simple to track the evolution of an author's research and view their affiliations and frequent collaborators.



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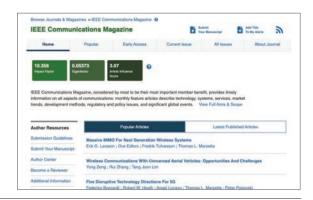
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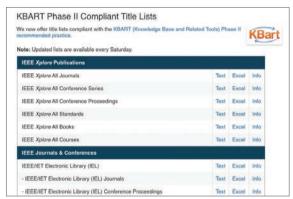
Journal and Conference Homepage Redesign

The recent homepage redesign for journals and conferences includes a streamlined navigation to journal articles and conference proceedings documents, as well as helpful author tools, resources, and submission guidelines.



Migration to KBART Title Lists

Title lists compliant with the KBART (Knowledge Base and Related Tools) Phase II recommended practice are now available in the Resources and Help pages of IEEE Xplore. IEEE institutional usage statistics reports have also been upgraded to the COUNTER 5 code of practice.



Tools to Support Reproducible Research

New tools, icons, and modules in IEEE Xplore enable users to view, execute, and download code associated with articles via Code Ocean. Users can upload and view links to relevant datasets hosted within IEEE DataPort. Badging is also now available to indicate code and datasets that have been peer reviewed.



Future Enhancements

- Institutional Dashboards will enable authenticated institutional subscribers to gain more insights into the most popular articles and technologies viewed by their colleagues, as well as top authors and recently published research from their organization.
- Redesign of the IEEE Xplore homepage for enhanced navigation and easier content discovery.
- An intuitive search feature in the IEEE Xplore Resources section will enable users to quickly find FAQs, solutions, and tools to help optimize research time.
- Institutional Profile Pages will provide a disambiguated view of all content published by an institution's authors in IEEE Xplore.
- Enhanced multimedia presentation will allow for streamlined downloading of supplemental content.
- Semantic search capabilities will be added to select IEEE *Xplore* search fields.

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 2020	New Subscription Titles for 2019
IEEE Journal of Emerging and Selected Topics in Industrial Electronics	IEEE Transactions on Biometrics, Behavior, and Identity Science
IEEE Journal on Selected Areas in Information Theory	IEEE Journal on Electromagnetic Compatibility Practice and Applications
IEEE Transactions on Technology and Society	IEEE Transactions on Miniaturization for Air and Space Systems IEEE Networking Letters
Listing current as of 08/2019, subject to change.	

A Sample of New* IEEE Conferences in 2019



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

IEEE International Conference on Artificial Intelligence Circuits and Systems (AICAS)

IEEE International Conference on Blockchain and Cryptocurrency (ICBC)

IEEE Sustainability through ICT Summit (StICT)

IEEE International Conference on Decentralized Applications and Infrastructures (DAPPCON)

IEEE International Conference on Artificial Intelligence Testing (AITest)

IEEE Asia Power and Energy Engineering Conference (APEEC)

International Conference on Control of Dynamical and Aerospace Systems (XPOTRON)

IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS)

Latin American Electron Devices Conference (LAEDC)

IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT)

IEEE 6th International Conference on Energy Smart Systems (ESS)

IEEE Decentralized Energy Access Solutions Workshop (DEAS)

*Note: This list of new conferences is not all-inclusive or final; it is based on information available as of 08/2019 and is subject to change.

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E&T—Engineering & Technology Magazine

IET Research Journals—more than 25 titles!

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New Standards Include:

C2 Preprint Proposals for the 2022 Edition of the National Electrical Safety Code (NESC®)

IEEE Shielded Power Cable Systems IEEE 400 Series (Bundle)

C57.12.32-2019 IEEE Standard for Submersible Equipment—Enclosure Integrity

802.3.2-2019 IEEE Standard for Ethernet—YANG Data Model Definitions

1870-2019 IEEE Guide for the Parameter Measurement of AC Transmission Lines

2410-2019 IEEE Standard for Biometric Open Protocol

2030.9-2019 IEEE Recommended Practice for the Planning and Design of the Microgrid

1561-2019 IEEE Guide for Optimizing the Performance and Life of Lead-Acid Batteries in Remote Hybrid Power Systems

802.1Qcy-2019 IEEE Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks Amendment 32: Virtual Station Interface (VSI) Discovery and Configuration Protocol (VDP) Extension to Support Network Virtualization Overlays Over Layer 3 (NVO3)

C37.04-2018 IEEE Standard for Ratings and Requirements for AC High-Voltage Circuit Breakers with Rated Maximum Voltage Above 1000 V

Examples of Popular Standards:

2017 National Electrical Safety Code® (NESC®)

2017 NESC® Handbook, Premier Edition

IEEE Std 1584-2018 IEEE Guide for Performing Arc-Flash Hazard Calculations (Revision of IEEE Std 1584-2002)

IEEE Std 1547-2018 IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces (Revision of IEEE Std 1547-2003)

2019 IEEE Dynamic Spectrum Access Systems Network IEEE 1900 Series (Bundle)

IEEE 802.1Q-2018 IEEE Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks

IEEE 2030.5-2018 IEEE Standard for Smart Energy Profile Application Protocol

IEEE Std 802.3-2018 IEEE Standard for Ethernet (Revision of IEEE Std 802.3-2015)

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Proceedings of the IEEE	US\$1,270	
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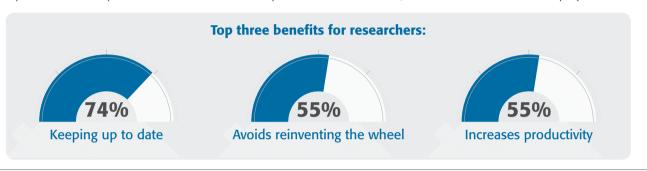
Improve ROI through Smarter Research

IEEE conducted a survey of 750 professionals across more than 10 technology industries. The results demonstrate that having access to a resource such as IEEE *Xplore* provides a wide range of advantages, including boosting productivity, accelerating research, and saving valuable time and money.

Researchers, Scientists, and Engineers

Stay Up To Date and Accelerate Research

To avoid time-consuming setbacks in a project, engineers need to be well-versed in the latest industry advancements and take advantage of previous lessons learned. Researchers and engineering professionals reported that the up-to-date information in IEEE *Xplore* allows for smarter, more efficient research and projects.



Directors and C-level Executives

Save Time While Increasing Productivity and Innovation

Directors and C-level executives were asked what key benefits IEEE *Xplore* brings to their organizations and employees. The results show that IEEE *Xplore* reduces project time and increases overall productivity and innovation, bringing cutting-edge products to market faster, thus increasing the total ROI.



Reduce the Cost of Research

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



Customer Success Stories

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.

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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Aerospace and Electronic Systems Magazine, IEEE (M-AES)	\$600	Services Computing, IEEE Trans. on (T-SC)	
Aerospace and Electronic Systems, IEEE Trans. on (T-AES)			
Miniaturization for Air and Space Systems, IEEE Journal on (J-MASS)	\$335	Computer Graphics Computer Graphics and Applications Magazine, IEEE (M-CG&A)	¢1 270
Antennas		Visualization and Computer Graphics, IEEE Trans. on (T-VCG)	
Antennas and Propagation Magazine, IEEE (M-AP)	\$675	visualization and computer diapriles, iEEE trans. on (1-ved)	
Antennas and Propagation, IEEE Trans. on (T-AP)		Computer Science & Engineering	
Antennas and Wireless Propagation Letters, IEEE (L-AWP)		Annals of the History of Computing, IEEE (M-AHC)	
		Big Data, IEEE Trans. on (T-BD)	
Biomedical	4750	Computer Architecture Letters, IEEE (L-CA)	
Biomedical and Health Informatics, IEEE Journal of (J-BHI)		Computer Magazine (M-C)	
Biomedical Circuits and Systems, IEEE Trans. on (T-BCAS)		IEEE Letters of the Computer Society (L-OCS)	
Biomedical Engineering, IEEE Reviews in (R-BME)		Computers, IEEE Trans. on (T-C)	
Biomedical Engineering, IEEE Trans. on (T-BME)	52,645	Computing in Science and Engineering Magazine (CiSE)	
IEEE/ACM Trans. on (T-CBB)	¢5.05	Design and Test Magazine, IEEE (M-D&T)	
Electromagnetics, RF and Microwaves in Medicine and Biology,		Embedded Systems Letters, IEEE (L-ES)	
IEEE Journal of (J-ERM)	\$560	Emerging Topics in Computing, IEEE Trans. on (T-ETC)	
Medical Imaging, IEEE Trans. on (T-MI)		Internet of Things Journal, IEEE (I-IOT)	
Medical Robotics and Bionics, IEEE Trans. on (T-MRB)		IEEE Internet of Things Magazine (M-IOT)	
NanoBioscience, IEEE Trans. on (T-NB)		Micro Magazine, IEEE (M-MICRO)	
Neural Networks and Learning Systems, IEEE Trans. on (T-NNLS)		Mobile Computing, IEEE Trans. on (T-MC)	
Neural Systems and Rehabilitation Engineering, IEEE Trans. on (T-NSRI		MultiMedia Magazine, IEEE (M-MULTI)	
IEEE Pulse (M-PULSE)	*	Multiscale and Multiphysics Computational Techniques,	
Radiation and Plasma Medical Science, IEEE Trans. on (T-RPMS)		IEEE Journal on (J-MMCT)	\$580
		Sustainable Computing, IEEE Trans. on (T-SUSC)	
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Broadcasting, IEEE Trans. on (T-BC)	\$190	Technology and Society, IEEE Trans. on (T-TS) NEW!	
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Circuits and Systems for Video Technology, IEEE Trans. on (T-CSVT)	\$1,445	Consumer Electronics	
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Circuits and Systems Part II: Express Briefs, IEEE Trans. on (T-CAS2)	\$1,280	Consumer Electronics, IEEE Trans. on (T-CE)	\$420
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IEEE Trans. on (T-MBMSC)	\$465	Automatic Control, IEEE Trans. on (T-AC)	\$2,950
Circuits and Devices		Automatica Sinica, IEEE/CAA Journal of (J-AS)	\$485
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IEEE Journal on (JETCAS)	\$990	Control Systems Magazine, IEEE (M-CS)	\$590
Radio Frequency Identification, IEEE Journal of (J-RFID)		Control Systems Technology, IEEE Trans. on (T-CST)	\$810
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IEEE Trans. on (T-CCN)		Very Large Scale Integration Systems, IEEE Trans. on (T-VLSI)	
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Communications Standards Magazine, IEEE (M-COMSTD)		Education, IEEE Trans. on (T-E) Learning Technologies, IEEE Trans. on (T-LT)	
Communications Surveys & Tutorials, IEEE (COMST)		. ,	
Pervasive Computing Magazine, IEEE (M-PVC)		IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE-RITA)	#1.00
Selected Areas in Communications, IEEE Journal on (J-SAC)		dei Aprendizaje (IEEE-KTIA)	
Selected Aleas III Communications, IEEE Journal on (J-SAC)	52,073	Electromagnetic Compatibility	
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Green Communications and Networking, IEEE Trans. on (T-GCN)		Electromagnetic Compatibility, IEEE Trans. on (T-EMC)	\$550
Network and Service Management, IEEE Trans. on (T-NSM)		Electromagnetic Compatibility Practice and Applications,	
Network Science and Engineering, IEEE Trans. on (T-NSE)		IEEE Journal on (J-EMCPA)	\$340
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Networking, IEEE/ACM Trans. on (T-NET)		IEEE Trans. on (T-UFFC)	\$1,390
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Industrial Electronics, IEEE Trans. on (T-IE)	
Industrial Informatics, IEEE Trans. on (T-IINF)	
Industry Applications, IEEE Trans. on (T-IA)	
	,
Information Theory Information Theory, IEEE Trans. on (T-IT)	\$1.995
Selected Areas in Information Theory, IEEE Journal on (J-SAIT) NEW!	
Instrumentation, Measurement, and Testing	
Instrumentation and Measurement Magazine, IEEE (M-IM)	
Instrumentation and Measurement, IEEE Trans. on (T-IM)	
Sensors Journal, IEEE (J-SEN)	
Interdisciplinary Canadian Journal of Electrical and Computer Engineering	NIA*
Latin America Transactions, IEEE	
Nanotechnology Magazine, IEEE (M-NANO)	
Nanotechnology, IEEE Trans. on (T-NANO)	
Potentials, IEEE (STM) Online free w/print	\$50
Proceedings of the IEEE	
Spectrum, IEEE	\$599
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Applied Superconductivity, IEEE Trans. on (T-ASC)	
Magnetics Society Package, IEEE	\$960
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Components, Packaging and Manufacturing Technology,	
IEEE Trans. on (T-CPMT)	\$1,420
Computer-Aided Design of Integrated Circuits and Systems, IEEE Trans. on (T-CAD)	¢1.270
Semiconductor Manufacturing, IEEE Trans. on (T-SCM)	
Microwave	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Microwave Microwave and Wireless Components Letters, IEEE (L-MWC)	\$1.130
Microwave Magazine, IEEE (M-MW)	
Microwave Theory and Techniques, IEEE Trans. on (T-MTT)	
Terahertz Science and Technology, IEEE Trans. on (T-THZ)	\$860
Nuclear and Plasma Science	
Nuclear Science, IEEE Trans. on (T-NS)	\$2,435
Plasma Science, IEEE Trans. on (T-PS)	\$1,430
Optics and Optoelectronics	
Lightwave Technology, Journal of (J-LT)	
Optical Communications and Networking, IEEE/OSA Journal of (J-OCN)	
Photonics Technology Letters, IEEE (L-PT)	
Photovoltaics, IEEE Journal of (J-PHOTOV)	
Selected Topics in Quantum Electronics, IEEE Journal of (J-STQE)	
Power and Energy	,
Electrification Magazine, IEEE (E-M)	\$485
Energy Conversion, IEEE Trans. on (T-EC)	
Power Delivery, IEEE Trans. on (T-PWRD)	
Power & Energy Magazine, IEEE (M-P&E)	
Power Systems, IEEE Trans. on (T-PWRS)	
Smart Grid, IEEE Trans. on (T-SG)	
Sustainable Energy, IEEE Trans. on (T-STE)	\$/6U
Power Dielectrics, Insulation, and Safety	4075
Dielectrics and Electrical Insulation, IEEE Trans. on (T-DEI)	
Electrical Insulation Magazine, IEEE (M-EI)	
Power Electronics	
Emerging and Selected Topics in Power Electronics, IEEE Journal of (J-ESTPE)	\$620
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Power Electronics, IEEE Trans. on (T-PEL)	

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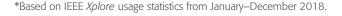
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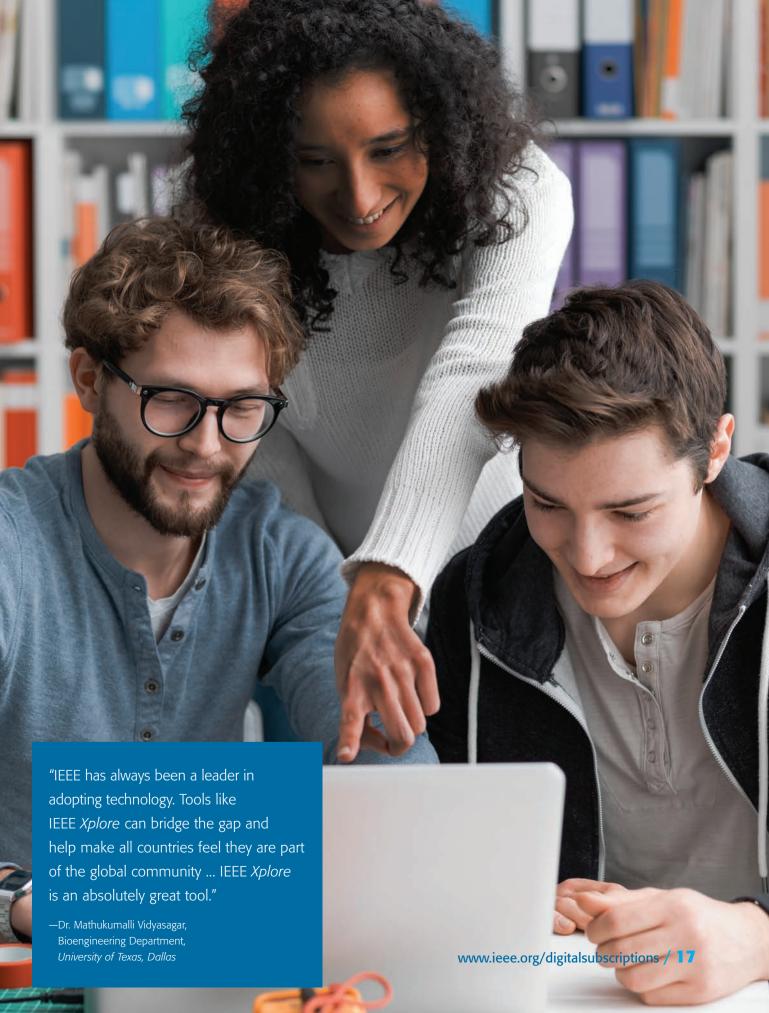
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