

2022

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# IEL: 您需要的技术信息来源

IEL 涵盖期刊、会议录及标准，学科覆盖：

航空航天及国防  
人工智能  
自动化工程  
自动驾驶汽车  
生物医学工程  
生物统计  
电路与系统  
通信工程  
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网络安全  
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信息技术  
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石油及天然气  
电力电子  
电力系统  
机器人及其自动化  
半导体  
智能电网  
可持续能源  
无线通讯  
...

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## IEEE Electronic Library (IEL)

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IEEE 旗下最完整的在线数据资源，为您提供领先的期刊、杂志、会议录及标准，帮助科研人员获取需要的科研信息。

### IEEE 期刊、杂志

约190种

在电气工程、计算机、生物技术、能源电力、电信等领域领先的期刊与杂志。

### IEEE 会议录

超过380万篇会议论文

来自 IEEE 全球会议的前沿科技文献，内容涵盖电气工程、计算机科学及相关工程领域。

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4,800+ 份 IEEE 标准文档，包括现行、归档和作废标准。您也可以增订标准草案。

IEEE 标准作为全球市场的重要驱动力，让您的产品研发符合国际标准，更快进入国际市场。

同时可以访问诺基亚贝尔实验室技术期刊（*Nokia's Bell Labs Technical Journal*）和 IET/VDE 会议录。

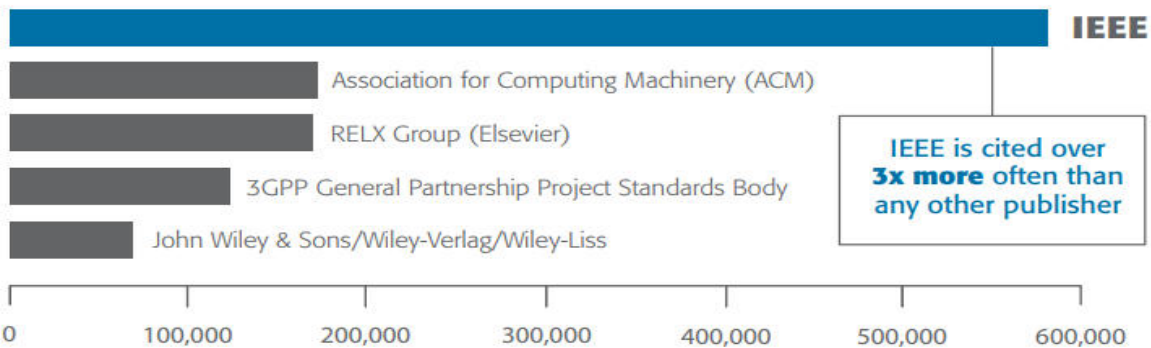


## 世界顶尖专利机构依赖 IEEE 开展研究

根据 1790 Analytics LLC 最新数据显示，IEEE期刊和会议录被专利引用次数超过 580,000 次，是其他任何一家出版社的三倍多。引用量相比 1997 年，增长了 923%。

其文献被专利引用次数最高的 5 家出版社

### Patent References to the Top 5 Publishers




数据来源: 1790 Analytics LLC, Copyright 2021.

了解更多 IEEE 期刊会议文献被专利引用情况，请访问：[www.ieee.org/patentcitations](http://www.ieee.org/patentcitations)

## IEEE 期刊的引用量不断攀升

每年，科睿唯安期刊引证报告 Journal Citation Reports® (JCR) 通过检验每本期刊的被引用频率来判断学术期刊影响力。

IEEE	
在电气电子工程领域排名前25 位占 20 席	
在电信领域排名前 10 位占 9 席	
在自动化控制系统领域排名中占据前 5 席	
在计算机科学的硬件结构领域排名前 5 位占 4 席	
在计算机科学的信息系统领域排名前 5 位占 3 席	
在计算机科学的人工智能领域排名前 5 位占 3 席	
在计算机科学的控制论领域排名前 5 位占 3 席	

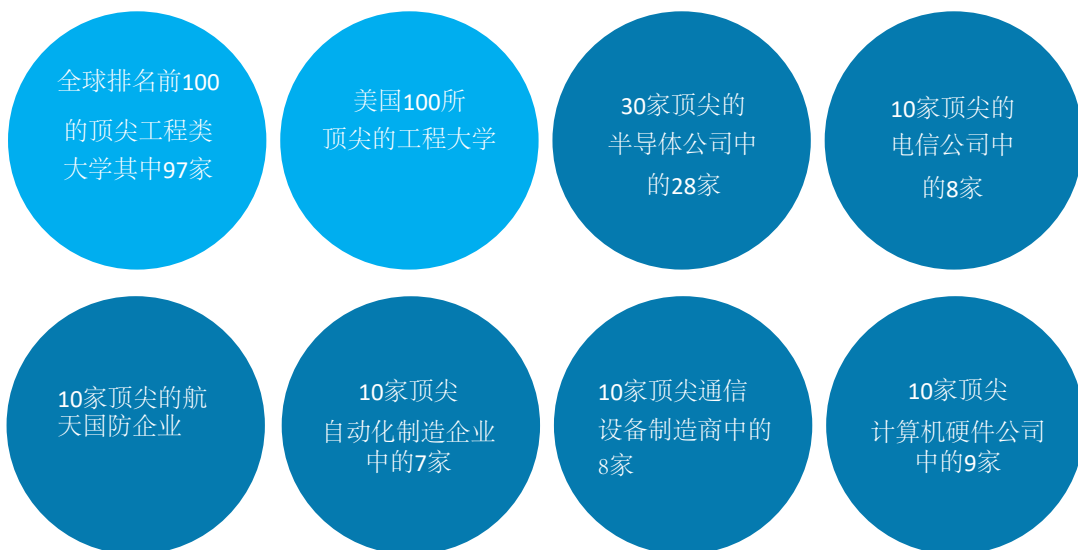
JCR 统计某期刊前两年发表的论文在统计当年的被引用情况

来源：2020 Journal Citation Reports (Clarivate Analytics, 2021).

了解更多 IEEE 期刊引用情况，请访问：[www.ieee.org/citations](http://www.ieee.org/citations)

## IEEE 信息推动创新

世界最成功的科技公司和顶尖高校均订购 IEEE Xplore Digital Library。



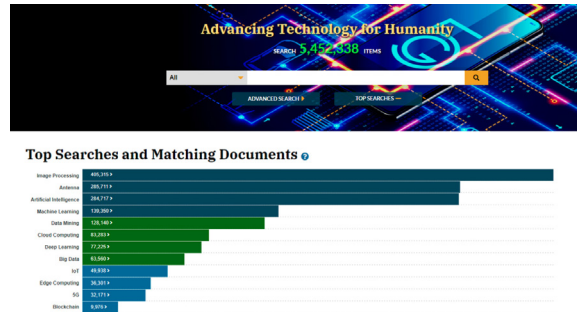
来源：Times Higher Education, Top Engineering & Technology Universities Worldwide 2020-21; U.S. News & World Report, Top U.S. Engineering Graduate Schools of 2022, ranked in 2021; 2021 Forbes Global 2000.  
Information current as of 08/2021.

# IEEE Xplore: 提供更好的创新性研究

您可以通过电脑和移动终端在 IEEE Xplore 上访问 IEL 和其他电子资源。随着 IEEE Xplore 收录的文献量逐年增加，数据库平台也在不断完善，力图使您更轻松找到需要的解决方案。以下是平台近期的更新内容：

## 发现热点内容

用户可以通过浏览高频检索词（top search terms）及其相对应的文献（matching documents）来发现前沿热点内容，同时也能直接链接到热点内容首页。此外，您还可以通过按“most popular”将检索结果进行排序，筛选出热点内容



## 关注您感兴趣的作者所发表的内容

作者订阅：您最多可以关注15位作者，当关注对象发布最新研究内容时，您将收到通知。点击作者详情页面或是主页封面作者推荐页面的“Follow This Author”即可订阅。

**Tara N. Sainath**

Also published under: Tara Sainath, TaraN Sainath, T. N. Sainath

**Affiliation**  
Google LLC, USA

**Publication Topics**  
speech recognition, recurrent neural nets, natural language processing, neural nets, speech coding, decoding, learning, artificial intelligence, optimization, test analysis, accurate signal processing, audio

**Biography**  
Tara N. Sainath received the S.B., M.Eng and PhD in Electrical Engineering and Computer Science (EECS) from MIT. After my PhD, I spent 5 years at the Speech and Language Algorithms group at IBM T.J. Watson Research Center, before joining Google Research. I have served as a Program Chair for ICASSP in 2017 and 2019. Also, I have co-organized numerous special sessions and workshops, including Interspeech 2010, ICML 2013, Interspeech 2016, ICML 2017, Interspeech 2019, NeurIPS 2020. In addition, I am a member of the IEEE Speech and Language Processing Technical Committee (EITC) as well as the Associate Editor for IEEE/ACM Transactions on Audio, Speech, and Language Processing. My research interests are mainly in deep neural networks for speech... [Show More](#)

**Publications** 83 **Citations** 8,433

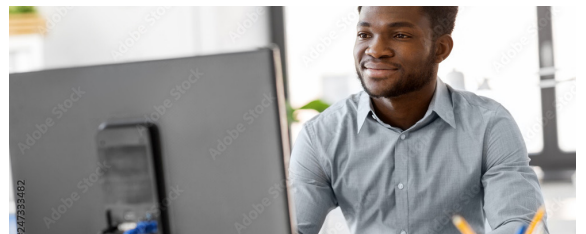
**Publications by Year**  
2006 2007 2008 2009 2010 2011

**Co-Authors:**  
Peter S. Auerbach  
Lil' Abu  
Rafael Alvarez  
Matthew Antonio  
Alexander V. Avastin

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## 我的研究项目（My Research Projects）

用户可以将重要文献保存至“我的研究项目”，当前，这一功能可实现15个文件夹的创建，每个文件夹可保存1000份文献。您可以通过个人账户的登录体验这一全新的功能。



## 收藏喜爱的期刊&杂志

这一全新的功能位于IEEE Xplore平台的首页，通过这一功能，可直接链接到已收藏的期刊或杂志的首页面及其最新一期的内容。

### My Favorite Journals & Magazines

Refine Results by		
Content Type	IEEE Aerospace and Electronic Systems Magazine	
<input type="checkbox"/> Magazines (3)	IEEE Transactions on Automatic Control	
<input type="checkbox"/> Journals (1)		
Publisher	IEEE Nanotechnology Magazine	
	IEEE Security & Privacy	

## “检索历史”功能的提升

检索历史的数量由50条增长至100条，同时，还增加了快速导出和打印的功能。

### Search History

Search History Recording  On  Off

Search History provides an authoritative record of your queries. You can:

- Run, modify, and combine previous searches
- Review refinements and other details of a previous search
- Store up to 100 searches

## 即将上线

- Institutional Profiles (Beta) 将清晰显示机构作者在IEEE Xplore中发布的所有内容。
- 图像搜索 (Image Search) 功能使用户能够在文献内搜索并找到相关图片及数据表格。
- 文章细节页面将新增数据可视化功能。

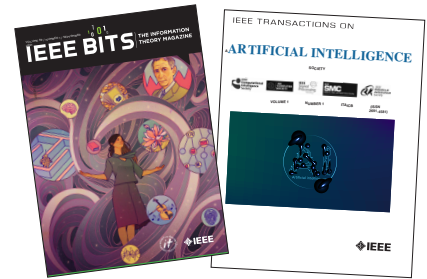
# 您的新兴技术来源

伴随着技术的不断革新，IEEE 出版物也不断更新。IEEE 持续提供能够引领科技发展的最新科研信息。

## 2021、2022年新增期刊列表

- IEEE Transactions on Artificial Intelligence*
- IEEE BITS the Information Theory Magazine*
- IEEE Journal on Flexible Electronics*
- IEEE Transactions on Signal and Power Integrity*

*Listing current as of 09/2021, subject to change.*



## 2021 年会议列举



2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

IEEE International Solid-State Circuits Conference (ISSCC)

2021 4th International Conference on Artificial Intelligence and Big Data (ICAIBD)

2021 32nd Annual SEMI Advanced Semiconductor Manufacturing Conference (ASMC)

2021 7th International Conference on Automation, Robotics and Applications (ICARA)

2021 IEEE 93rd Vehicular Technology Conference (VTC2021–Spring)



2021 IEEE 2nd International Conference on Big Data, Artificial Intelligence and Internet of Things Engineering (ICBAIE)

2021 IEEE International Conference on Blockchain and Cryptocurrency (ICBC)

2021 8th IEEE International Conference on Cyber Security and Cloud Computing (CSCloud)

2021 Sixteenth International Conference on Ecological Vehicles and Renewable Energies (EVER)

2021 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)



2021 5th International Conference on Internet of Things and Applications (IoT)

2021 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit)

2021 International Conference on Applied Artificial Intelligence (ICAPAI)



2021 12th International Renewable Engineering Conference (IREC)

\* Note: This list of new conferences is not all-inclusive or final; it is based on information available as of 09/2021

浏览更多 IEEE 会议，请浏览：[www.ieee.org/ieeexplore](http://www.ieee.org/ieeexplore)



# IEEE 标准：最大限度提升产品研发水平

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## IEEE 标准让您站在技术最前端

IEEE 标准推动着一系列产品、服务和技术的功能、性能和互操作性的发展，这些产品、服务和技术的改变了人们的生活、工作和交流方式。

### 新标准列举:

802.15.4y-2021 IEEE Standard for Low-Rate Wireless Networks Amendment 3: Advanced Encryption Standard (AES)-256 Encryption and Security Extensions

802E-2020 IEEE Recommended Practice for Privacy Considerations for IEEE 802(R) Technologies

2030.11-2021 IEEE Guide for Distributed Energy Resources Management Systems Functional Specification

P2418.7/D3.0, Mar 2021 IEEE Draft Standard for the Use of Blockchain in Supply Chain Finance

P1686/D1.2, Apr 2021 IEEE Draft Standard for Intelligent Electronic Devices Cyber Security Capabilities

1619.2-2021 IEEE Standard for Wide-Block Encryption for Shared Storage Media

1901-2020 IEEE Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications

1609.3-2020 IEEE Standard for Wireless Access in Vehicular Environments (WAVE)—Networking

### 热门标准举例

2017 National Electrical Safety Code® (NESC®)

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)

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

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

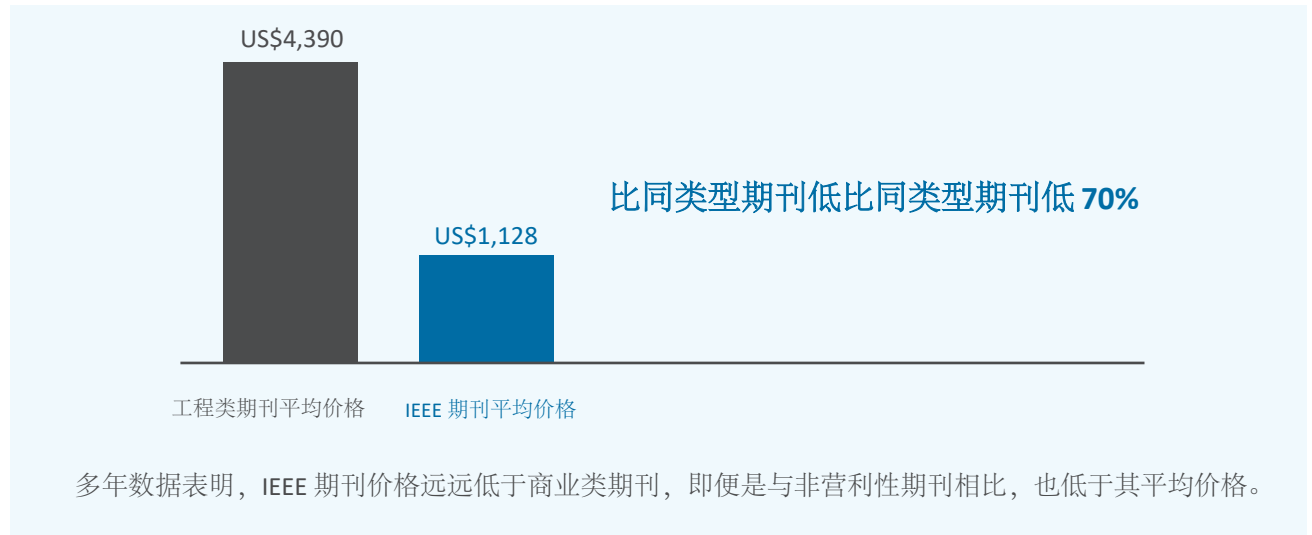
IEEE Std 80-2013 IEEE Guide for Safety in AC Substation Grounding (Revision of IEEE Std 80-2000/ Incorporates IEEE Std 80-2013/Cor 1-2015)

IEEE Std 802.11-2016 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 802.11-2012)

# IEL: 您订阅的最佳选择

## IEEE 期刊价格低于同类型期刊

*Library Journal* (2021年4月) 数据显示, 工程类期刊的平均价格为 US\$ 4,218。而 IEEE 期刊的平均价格为 US\$ 1,113。



## 订购 IEL 节省更多开支

您可以通过 IEEE Electronic Library 访问到技术领域最重要的期刊、会议录及标准, 而这些文献的价值远远高于其实际价格。

IEL 数据库中单独订购内容的价格	
IEEE Conference Proceedings and backfile	US\$715,000
IEEE Periodicals and backfile	US\$396,773
IEEE Standards Collection	US\$357,750
IET Conferences	US\$14,963
VDE Conferences Collection	US\$7,500
<i>Proceedings of the IEEE</i>	US\$1,540
IEEE Spectrum	US\$599
单独订购所有内容需要的价格: US\$1,494,125	

订购以上所有现有的出版物文献, 价格将超过 US\$ 1,400,000。IEL 标准价格 (包括文摘与过刊) 远低于此\* — IEL 的价值显而易见!

IEL 的价格更低、内容更多, 而且为您提供最前沿的科研信息, 让您站在技术领域的最前端。

\*如果您想了解详细的订购方案和价格, 请联系 IEEE 数据库产品在中国地区的独家代理商-iGroup 中国。

# 通过更智能的研究提高投资回报率

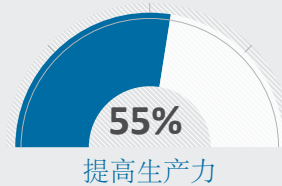
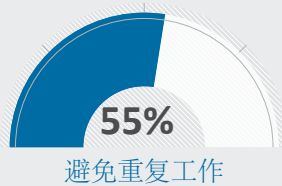
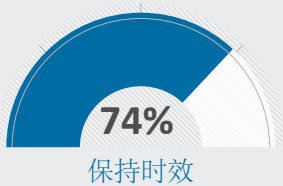
IEEE 针对 10 个科技领域的 750 位科研人员进行调查。结果显示使用 IEEE Xplore 带来诸多益处，包括提升科研效率、加快科研进程、节省科研时间以及减少科研支出等。

## 研发人员、科学家和工程师

### 保持时效与加速研发

工程师为避免在项目中的时间损耗，需要随时掌握最新的行业发展情况，并从中吸取经验教训。科研人员和工程技术人员报告，IEEE Xplore 上的最新消息能帮助他们更智能和有效地推进科研与项目的进行。

#### 面向科研人员的三大优势：



## 经理与高管

### 节约时间、提高生产力与创造力

公司董事和高管在调查中报告，IEEE Xplore 给予机构和员工的最大优势在于，减少项目时间的同时提升了整体的生产力与创造力，使先进的产品更快推向市场，增加了整体的投资回报率。

#### 面向管理人员的三大优势：



## 降低研发成本

缩短项目研发阶段的时间损耗能显著提升投资回报率。

三分之二的受访者报告 IEEE Xplore 帮他们明显节省了研发时间，其中很多表示 IEEE Xplore 甚至帮他们节约了一半的研发时间。



# 用户成功案例

工程师在创新过程中面临许多挑战。IEEE 最近采访了 IEEE Xplore 数据库的用户，了解他们的日常挑战以及如何通过 IEEE Xplore 数据库克服它们。

## 加速研究进程

使用 IEEE Xplore 数据库大大缩短研发时间，使工程师们的科研更高效并加快项目的前进步伐。



“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

## 挑战

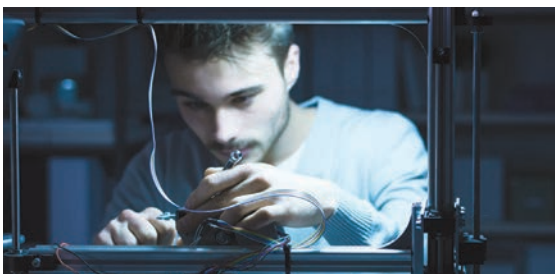
一名航空航天系统工程师为研究塑料对特定波长激光的吸收，在寻找可替代的物理测试方法。原本的测试方法非常昂贵，而且需要几天甚至几周的时间才能完成。

## 解决方案

通过 IEEE Xplore 这位工程师能够迅速找到关于这一研究的物理测量结果，节省了进行物理测试的时间和费用。

## 在学习中领先一步

IEEE Xplore 涉及科技领域的方方面面，为工程师提供大量技术知识，以帮助他们了解在创新过程中不太熟悉的领域。



“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

## 挑战

一家国防公司的设计工程师需要对氮化镓放大器进行故障排除，而他在这方面几乎没有什么经验。为了找到问题和解决方案，他首先需要了解更多有关放大器本身的信息及其工作原理。

## 解决方案

利用 IEEE Xplore 上的电子设计研究，他能够收集有关放大器及其行为的信息，以了解他在实验室中观察到的情况，并准确排查故障。

# IEEE 期刊：技术领域高质量的文献集合

## Journal Titles

### Aerospace

Aerospace and Electronic Systems Magazine, IEEE (M-AES)  
Aerospace and Electronic Systems, IEEE Trans. on (T-AES)  
Miniaturization for Air and Space Systems, IEEE Journal on (J-MASS)

### Antennas

Antennas and Propagation Magazine, IEEE (M-AP)  
Antennas and Propagation, IEEE Trans. on (T-AP)  
Antennas and Wireless Propagation Letters, IEEE (L-AWP)

### Biomedical

Biomedical and Health Informatics, IEEE Journal of (J-BHI)  
Biomedical Circuits and Systems, IEEE Trans. on (T-BCAS)  
Biomedical Engineering, IEEE Reviews in (R-BME)  
Biomedical Engineering, IEEE Trans. on (T-BME)  
Computational Biology and Bioinformatics IEEE/ACM Trans. on (T-CBB)  
Electromagnetics, RF and Microwaves in Medicine and Biology, IEEE Journal of (J-ERM)  
Medical Imaging, IEEE Trans. on (T-MI)  
Medical Robotics and Bionics, IEEE Trans. on (T-MRB)  
NanoBioscience, IEEE Trans. on (T-NB)  
Neural Networks and Learning Systems, IEEE Trans. on (T-NNLS)  
IEEE Pulse (M-PULSE)  
Radiation and Plasma Medical Science, IEEE Trans. on (T-RPMS)

### Broadcasting and Digital Media

Broadcasting, IEEE Trans. on (T-BC)

### Circuit Theory, Analysis, and Design

Circuits and Systems for Video Technology, IEEE Trans. on (T-CSVT)  
Circuits and Systems Part I: Regular Papers, IEEE Trans. on (T-CAS1)  
Circuits and Systems Part II: Express Briefs, IEEE Trans. on (T-CAS2)  
Molecular, Biological, and Multi-Scale Communications, IEEE Trans. on (T-MBMSC)

### Circuits and Devices

Circuits and Systems Magazine, IEEE (M-CAS)  
Emerging and Selected Topics in Circuits and Systems, IEEE Journal on (JETCAS)  
Flexible Electronics, IEEE Journal on (J-FLEX) **NEW!**  
Radio Frequency Identification, IEEE Journal of (J-RFID)  
RFIC Virtual Journal, IEEE (RFIC-VJ)

### Communication and Information

Cognitive Communications and Networking, IEEE Trans. on (T-CCN)  
Communications Letters, IEEE (L-COMM)  
Communications Magazine, IEEE (M-COMM)  
Communications, IEEE Trans. on (T-COMM)  
Communications Standards Magazine, IEEE (M-COMSTD)  
Communications Surveys & Tutorials, IEEE (COMST)  
Pervasive Computing Magazine, IEEE (M-PVC)  
Selected Areas in Communications, IEEE Journal on (J-SAC)

### Communications Networks/Systems

Green Communications and Networking, IEEE Trans. on (T-GCN)  
Network and Service Management, IEEE Trans. on (T-NSM)  
Network Science and Engineering, IEEE Trans. on (T-NSE)  
Network, IEEE (M-NET)  
Networking, IEEE/ACM Trans. on (T-NET)  
IEEE Networking Letters (L-NET)

### Computational Intelligence

Affective Computing, IEEE Trans. on (T-AFFC)  
Cognitive and Developmental Systems, IEEE Trans. on (T-CDS)  
Computational Intelligence Magazine, IEEE (M-CI)  
Emerging Topics in Computational Intelligence, IEEE Trans. on (T-ETCI)  
Evolutionary Computation, IEEE Trans. on (T-EVC)  
Fuzzy Systems, IEEE Trans. on (T-FUZZ)  
Games, IEEE Trans. on (T-G)  
Intelligent Systems Magazine, IEEE (M-IS)  
Knowledge and Data Engineering, IEEE Trans. on (T-KDE)

## Journal Titles

Pattern Analysis and Machine Intelligence, IEEE Trans. on (T-PAMI)  
Services Computing, IEEE Trans. on (T-SC)

### Computer Graphics

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

### Computer Science & Engineering

Annals of the History of Computing, IEEE (M-AHC)  
Artificial Intelligence, IEEE Trans. on (T-AI)  
Big Data, IEEE Trans. on (T-BD)  
Computer Architecture Letters, IEEE (L-CA)  
Computer Magazine (M-C)  
Computers, IEEE Trans. on (T-C)  
Computing in Science and Engineering Magazine (CiSE)  
Design and Test Magazine, IEEE (M-D&T)  
Embedded Systems Letters, IEEE (L-ES)  
Emerging Topics in Computing, IEEE Trans. on (T-ETC)  
Internet Computing Magazine, IEEE (M-IC)  
Internet of Things Journal, IEEE (J-IOT)  
IEEE Internet of Things Magazine (M-IOT)  
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Microelectromechanical Systems, Journal of (J-MEMS)

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Industry Applications, IEEE Trans. on (T-IA)

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Selected Topics in Quantum Electronics, IEEE Journal of (J-STQE)

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Robotics and Automation Magazine, IEEE (M-RA)

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Intelligent Vehicles, IEEE Trans. on (T-IV)  
Transportation Electrification, IEEE Trans. on (T-TE)  
Vehicular Technology Magazine, IEEE (M-VT)  
Vehicular Technology, IEEE Trans. on (T-VT)

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Wireless Communications, IEEE Trans. on (T-WC)

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下面列举了 IEEE Xplore 平台上下载次数最多的 25 个会议。\* 这些会议虽然仅仅是我们旗舰会议中的一小部分，却是相关领域一些最热门的会议。

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	IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
	Signal Processing and Communications Applications Conference (SIU)
	International Conference on Robotics and Automation (ICRA)
	IEEE International Solid-State Circuits Conference (ISSCC)
	IEEE Global Communications Conference (GLOBECOM)
	IEEE International Geoscience and Remote Sensing Symposium (IGARSS)
	Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)
	IEEE International Conference on Communications (ICC)
	IEEE Energy Conversion Congress and Exposition (ECCE)
	IEEE International Conference on Image Processing (ICIP)
	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
	Hawaii International Conference on System Sciences (HICSS)
	IEEE International Electron Devices Meeting (IEDM)
	IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting
	International Joint Conference on Neural Networks (IJCNN)
	International Conference on Electrical Machines and Systems (ICEMS)
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	IEEE Conference on Computer Communications (INFOCOM)
	IEEE/CVF International Conference on Computer Vision (ICCV)
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Avionics and Vehicle Fiber-Optics and Photonics Conf (AVFOP), IEEE  
Autotestcon, IEEE

### Biomedical

Engineering in Medicine & Biology Society Annual Conf (EMBS), IEEE  
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

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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

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Advanced Intelligent Mechatronics, IEEE/ASME Int'l Conf on American Control Conf (ACC)  
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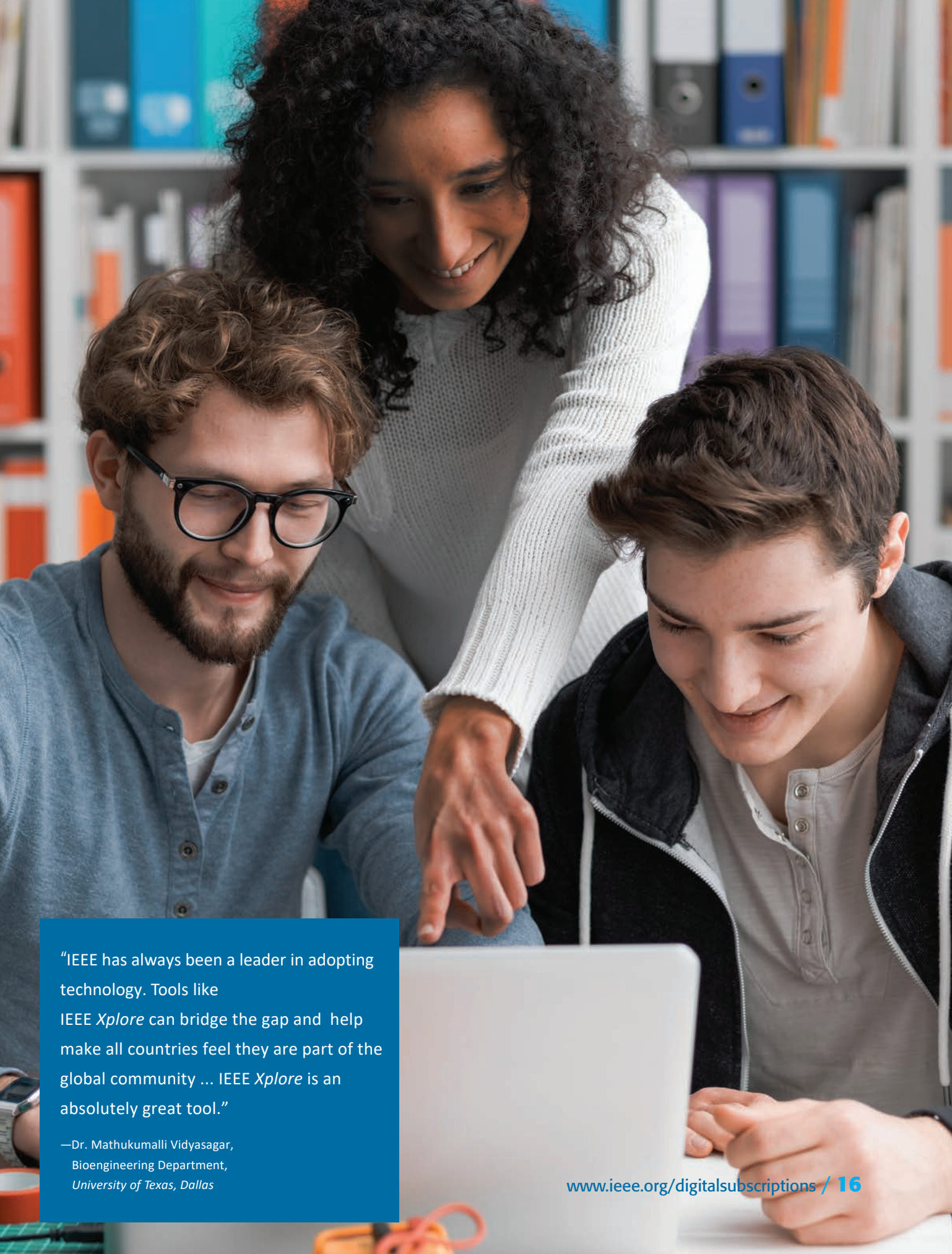
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