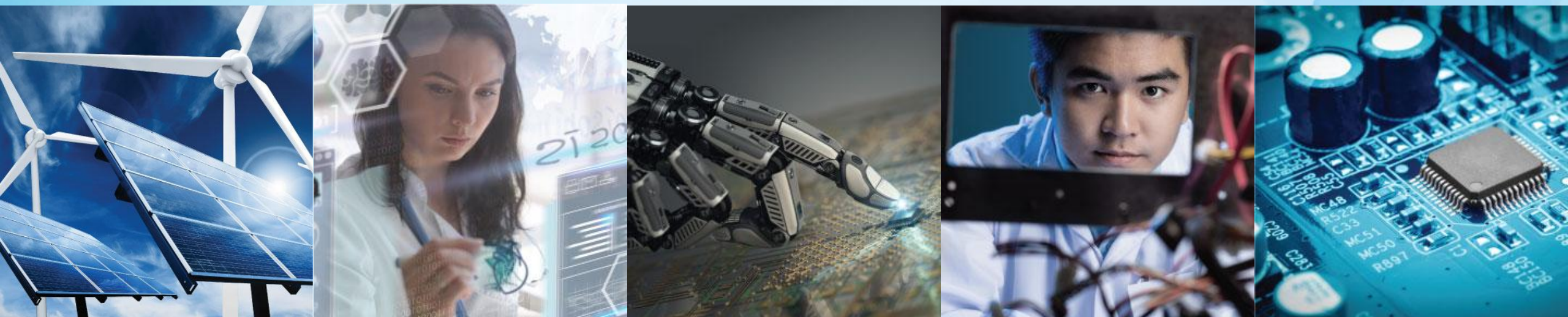




# IEEE助力中外合作办学高校图书馆发展与国际合作

IEEE亚太区区域经理

李箐

# 关于 IEEE

- IEEE是全球最大的专业技术学会，会员遍布世界160多个国家和地区，会员人数超过50万(2025年)
- 作为一个非营利的组织，IEEE始终肩负“驱动技术创新，为人类谋福祉”这一使命
- 核心活动
  - 会员组织
  - 会议组织
  - 标准开发
  - 科技出版（期刊、会议录、标准、电子图书以及在线课程等资源）
- IEEE *Xplore* 数字图书馆
  - 收录文献600多万篇
  - 每月下载量超过2400万
  - 覆盖全球超800万用户

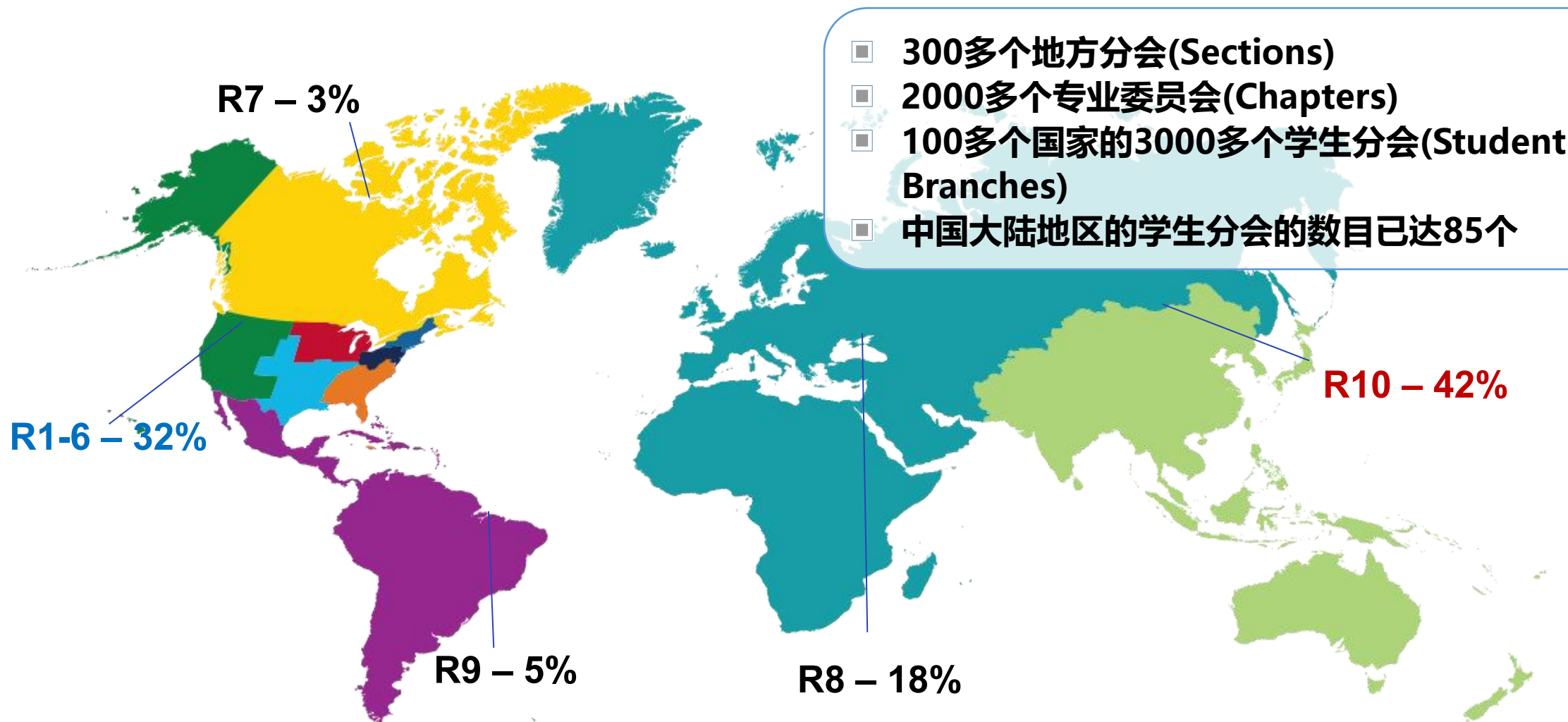
IEEE  
**140**  
YEARS  
1884 - 2024



# IEEE 39个专业协会，促进多学科发展

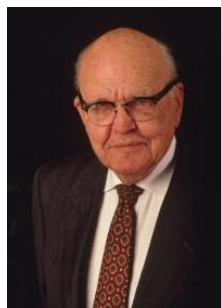
- IEEE Aerospace and Electronic Systems Society
- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
- IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectrics and Electrical Insulation Society
- IEEE Education Society
- IEEE Electron Devices Society
- IEEE Electronics Packaging Society
- IEEE Electromagnetic Compatibility Society
- IEEE Engineering in Medicine and Biology Society
- IEEE Geoscience and Remote Sensing Society
- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
- IEEE Information Theory Society
- IEEE Instrumentation and Measurement Society
- IEEE Intelligent Transportation Systems Society
- IEEE Magnetics Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Oceanic Engineering Society
- IEEE Photonics Society
- IEEE Power Electronics Society
- IEEE Power & Energy Society
- IEEE Product Safety Engineering Society
- IEEE Professional Communication Society
- IEEE Reliability Society
- IEEE Robotics and Automation Society
- IEEE Signal Processing Society
- IEEE Society on Social Implications of Technology
- IEEE Solid-State Circuits Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society

# IEEE联结全球科研人员



截止到2024年底统计 (486,616)

# IEEE 会员：贯穿全球科技发展历程的核心力量



1958年 Jack Kilby发明集成电路

1986 IEEE Medal of Honor



1973年Leo Esaki, 在半导体中发现电子的量子穿隧效应

1991 IEEE Medal of Honor



ANDREW S. GROVE英特尔创始人

2000 IEEE Medal of Honor



1962年Nick Holonyak发明了第一台实用的可见光发光二极管

2003 IEEE Medal of Honor



1965年Gordon Moore摩尔定律

2008 IEEE Medal of Honor



1987年张忠谋创立台积电

2011 IEEE Medal of Honor



1980s B. JAYANT BALIGA发明IGBT

2014 IEEE Medal of Honor



1999年胡正明发明FinFET

2020 IEEE Medal of Honor



半导体产业发展历程中IEEE的身影： IEEE Medal of Honor荣誉奖章得主



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## Citation Ranking by Journal Impact Factor:

- 24 of the top 30 journals in **Electrical and Electronic Engineering**
- 23 of the top 30 journals in **Telecommunications**
- 9 of the top 20 journals in **Computer Science, Artificial Intelligence**
- 5 of the top 10 journals in **Computer Science, Information Systems**
- 3 of the top 5 journals in **Imaging Science**
- 3 of the top 5 journals in **Automation and Control systems**
- 3 of the top 5 journals in **Computer Science, Cybernetics**
- 3 of the top 5 journals in **Computer Science, Hardware & Architecture**

In addition, **IEEE journals ranked No. 1** in JIF in several categories including Automation and Control, Imaging, Information Systems, Telecom and more!



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# IEEE在新兴领域会议不断增长

IEEE conferences continue to address growing areas of research that transform our lives. Below are some examples of conferences published in 2024 covering these innovative technologies:

- 2024 IEEE Int'l Conf on Acoustics, Speech and **Signal Processing** (ICASSP)
- 2024 IEEE/SEMI Conf on Advanced **Semiconductor Manufacturing**
- 2024 IEEE Int'l Conf on **AI in Cybersecurity**
- 2024 IEEE Int'l Conf on **Applied Artificial Intelligence** (ICAPAI)
- 2024 IEEE Symp on **Applied Machine Intelligence and Informatics** (SAMII)
- 2024 IEEE Int'l Conf on **Big Data and Smart Computing (BIGCOMP)**
- 2024 IEEE Consumer **Communications & Networking** Conference (CCNC)
- 2024 Int'l Conf on Developments in **Renewable Energy Technology** (ICDRET)
- 2024 Int'l Conf on **Energy Conservation and Efficiency** (ICECE)
- 2024 IEEE **Green Technologies** Conference (GreenTech)
- 2024 **Optical Fiber Communications** Conference (OFC)
- 2024 Int'l Conf on **Networking and Communications** (ICNWC)
- 2024 Int'l Conf on **Smart Grid and Renewable Energy** (SGRE)
- 2024 Int'l Conf on **Mechatronics and Robotics Engineering** (ICMRE)
- 2024 IEEE Symp on **Semiconductor Thermal Measurement** (SEMI-THERM)
- 2024 IEEE Int'l Conf on **Unmanned Vehicle Systems** (UVS)
- 2024 IEEE Conf on **Virtual Reality and 3D User Interfaces** (VR)
- 2024 IEEE Innovative **Smart Grid** Technologies Conference (ISGT)
- 2024 IEEE Conf on **AI and Machine Learning Applications: Healthcare and IoT**



2024 Forum for Innovative Sustainable Transportation Systems, California, USA

**Over 200,000 new  
papers posted in 2024!**



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

# IEEE标准协会：引领行业标准制定

IEEE Standards Association (IEEE-SA)

## Vision 愿景

成为全球首选的高质量，市场驱动标准制订平台

## IEEE标准覆盖范围：

- Electromagnetic Compatibility
- Green Technology
- Ethernet/Wi-Fi
- Medical Device Communications
- Nanotechnology
- Organic Components
- Portable Battery Technology
- Power Electronics
- Power & Energy
- Radiation/Nuclear
- Reliability
- Transportation Technology

## IEEE 802





# IEEE Xplore 平台电子图书一览

平台有来自10余个集合的8000多本电子图书:

- 覆盖前沿科技领域的资讯内容，如**半导体集成电路、人工智能、智能电网、5G/6G、机器人、网络安全、增强现实技术、大数据、自动驾驶汽车**等；
- 这些经过同行评审的高质量内容，在新增到IEEE Xplore平台前，会经由**IEEE评审委员会审批**；
- 这些电子图书由各领域的专家所著，包括著名的科学家，获奖作者及知名科研人员等，且大多**具备雄厚的IEEE学会背景（如IEEE会士、IEEE编辑）**；



# IEEE前沿技术课程

IEEE提供数百小时前沿技术课程，领域覆盖5G/6G、AI、IOT、Blockchain, Smart Grid等各个新兴领域，还涉及工程英语、职业发展等受欢迎主题。

2024



Artificial Intelligence and Machine Learning in Chip Design



AI Integration in Semiconductor Manufacturing



Integrating Edge AI and Advanced Nanotechnology in Semiconductor Applications



Battery Energy Storage Technologies and Applications

2025



Artificial Intelligence and Energy Use



Cloud Computing



Large-Language Models



Technical Writing

<https://ieeexplore.ieee.org/courses/home>



# ISSCC国际固态电路会议短期课程专家视频

## International Solid-State Circuits Conference

- IEEE固态电路协会年度会议/创办于1954年
- 展示固态电路和片上系统先进技术的首要全球论坛
- 涵盖模拟电路、数字电路、存储技术以及机器学习、人工智能等新兴技术等领域。
- 目前IEEE Xplore平台拥有超过11,000篇ISSCC会议论文
  - 每年ISSCC会提供一系列Short Courses和Tutorials，单独注册
  - 将提供视频、幻灯片及文字记录
  - 年度订阅（不涵盖在IEL及其他产品中），包含最近14年的内容



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