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# 初识 IEEE



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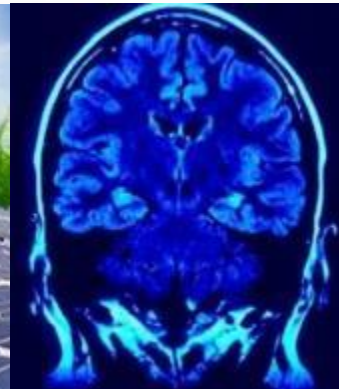
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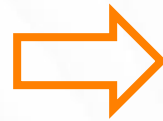
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# A Survey on 5G Networks for the Internet of Things: Communication Technologies and Challenges

Publisher: IEEE



4 Author(s)

Godfrey Anuga Akpakwu ; Bruno J. Silva; Gerhard P. Hancke; Adnan M. Abu-Mahfouz  [View All Authors](#)

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- I. Introduction
- II. IoT Application Requirements
- III. Existing IoT Communication Technology
- IV. 3GPP Cellular Solutions for the Internet of Things
- V. 5G New Radio Enhancements for the Internet of Things

## Abstract:

The Internet of Things (IoT) is a promising technology which tends to revolutionize and connect the global world via heterogeneous smart devices through seamless connectivity. The current demand for machine-type communications (MTC) has resulted in a variety of communication technologies with diverse service requirements to achieve the modern IoT vision. More recent cellular standards like long-term evolution (LTE) have been introduced for mobile devices but are not well suited for low-power and low data rate devices such as the IoT devices. To address this, there is a number of emerging IoT standards. Fifth generation (5G) mobile network, in particular, aims to address the limitations of previous cellular standards and be a potential key enabler for future IoT. In this paper, the state-of-the-art of the IoT application requirements along with their associated communication technologies are surveyed. In addition, the third generation partnership project cellular-based low-power wide area solutions to support and enable the new service requirements for Massive to Critical IoT use cases are discussed in detail, including extended coverage global system for mobile communications for the Internet of Things, enhanced machine-type communications, and narrowband-Internet of Things. Furthermore, 5G new radio enhancements for new service requirements and enabling technologies for the IoT are introduced. This paper presents a comprehensive review related to emerging and enabling technologies with

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# A Survey on 5G Networks for the Internet of Things: Communication Technologies and Challenges

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Abstract

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III. Existing IoT Communication Technology

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2. Javier Hoffmann, Dirk Kuschnerus, Trevor Jones, Michael Hubner, "Towards a Safety and Energy Aware protocol for Wireless Communication", *Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC) 2018 13th International Symposium on*, pp. 1-6, 2018.

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enhancements for new service requirements and enabling technologies for the IoT are introduced. This paper presents a comprehensive review related to emerging and enabling technologies with main focus on 5G mobile networks that is envisaged to support the exponential traffic growth for enabling the IoT. The challenges and open research directions pertinent to the deployment of enabling the IoT. The challenges and open research directions pertinent to the deployment of

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$$\begin{aligned}
 p_d &\geq \frac{\mu}{(\mu + 1)} \frac{i(n - i)c^2}{n^2(e^c + \mathcal{O}(1/n))}, & p_c &\geq \frac{\mu - 1}{2\mu^2(e^c + \mathcal{O}(1/n))} \\
 p_r &\leq \frac{(\mu - 1)(2\mu - 1 + \mathcal{O}(1/n))}{2e^c\mu^2(\mu + 1)}, & p_m &\geq \frac{c(n - i)}{n(e^c + \mathcal{O}(1/n))}.
 \end{aligned}$$

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```

\begin{align*}
p_{d} \geq & \frac{\mu}{(\mu + 1)} \frac{i(n-i)c^2}{n^2(e^c + \mathcal{O}(1/n))}, \quad p_{c} \geq \frac{\mu - 1}{2\mu^2(e^c + \mathcal{O}(1/n))} \\
p_{r} \leq & \frac{(\mu - 1)(2\mu - 1 + \mathcal{O}(1/n))}{2e^c\mu^2(\mu + 1)}, \quad p_{m} \geq \frac{c(n-i)}{n(e^c + \mathcal{O}(1/n))}.
\end{align*}

```



Device and Data  
Reliability

FIG. 5.1  
IoT Key Design Requirements

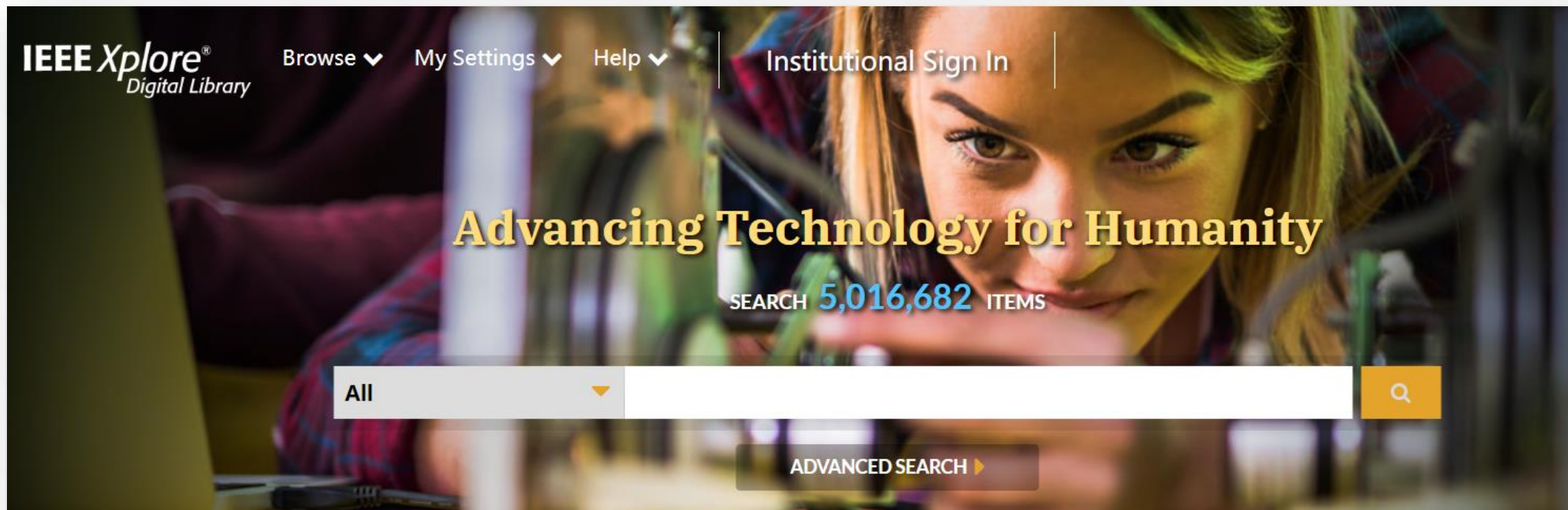
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# 检索方式——Command Search ( 命令检索 )

Advanced Search **Command Search** Citation Search

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AND  
OR  
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There is a maximum of 40 search terms.

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Dheena Moongilan  
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-- sassifi\_rf: contains all errors obtained on fault injections using RF mode

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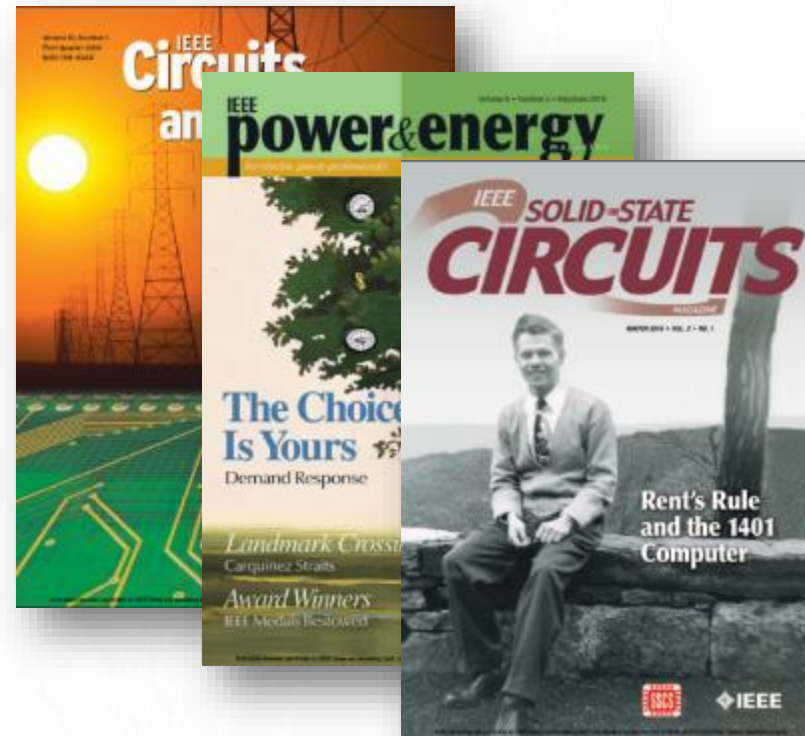
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Title   Location	Country	Abstract Submission Deadline	Conference Date
<a href="#">2020 IEEE International Workshop on Metrology for Industry 4.0 &amp; IoT (MetroInd4.0&amp;IoT)</a> <b>Location:</b> National Research Council Headquarter, Piazzale Aldo Moro, 7, Roma, Italy	Italy	21 Feb 2020	03-05 Jun 2020
<a href="#">2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIOT)</a> <b>Location:</b> Qatar University, AlJamea Street, Doha, Qatar	Qatar	01 Oct 2019	02-05 Feb 2020
<a href="#">2020 23rd Conference on Innovation in Clouds, Internet and Networks and Workshops (ICIN 2020)</a>	France	04 Oct 2019	24-27 Feb 2020

# 期刊杂志检索——了解更多信息

## 小节

提交文章前应了解：

- 编委会
- 评审时长
- 接受率
- 文章类型
- 页面收费
- 研读期刊已发表论文

# 文章写作：作者中心与作者工具

The screenshot shows the IEEE Author Center website. At the top left is the IEEE Author Center logo. At the top right is the IEEE logo. Below the logo is a search bar with a dropdown menu set to "All Author Center sites" and a search button. Below the search bar are four navigation tabs: JOURNALS, CONFERENCES, MAGAZINES, and BOOKS. The main content area is divided into two columns. The left column is titled "Publish with IEEE" and contains two sub-sections: "Publish with IEEE Journals" and "Publish with IEEE Conferences". The "Publish with IEEE Journals" section features a collage of journal covers including "IEEE TRANSACTIONS ON SIGNAL PROCESSING", "Circuits and Systems", "IEEE TRANSACTIONS ON GAMES", and "Women in Engineering". Below the collage is the text: "Submit your article to one of our 150+ transactions, journals, and letters publications." The "Publish with IEEE Conferences" section features a photo of people at a conference looking at a poster. Below the photo is the text: "Submit your article for presentation at one of our 1,800+ conferences." The right column is titled "IEEE Author Tools" and lists several tools: "Publication Recommender", "Article Templates", "Graphics Analyzer", "LaTeX Analyzer", "Reference Preparation Assistant", and "PDF Checker". At the bottom of the right column is the "IEEE Collaborate AuthorLab" logo and the text: "Network, collaborate, and create with technology experts globally in the AuthorLab."


<https://ieeauthorcenter.ieee.org/>

# IEEE Collabratec AuthorLab

The screenshot displays the IEEE AuthorLab community page. At the top left is the IEEE Collabratec logo. The main header area includes the 'IEEE AuthorLab' title and a welcome message: 'The IEEE AuthorLab welcomes all IEEE authors and potential authors to this forum on publishing in IEEE periodicals. Participate in discussions, share ideas about publishing, and ask questions of other community members, or IEEE publication staff.' Below this is a navigation bar with options for 'Post', 'Question', and 'File'. A text input field is provided for posting, with a character count of '4000 characters remaining' and a 'Post' button. A 'Promote This Post (Manage)' checkbox is also visible. The page features a 'Participants' section with 4336 members and a grid of profile pictures. A navigation menu includes 'Activities', 'Files', 'Q & A', 'Events', and 'Participants'. A section titled '263 Post(s) in Community' shows a post by Tiffany Mckerahan from 'a day ago' with the text: 'Don't miss IEEE's author education event at the 2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS) conference in Beijing next month! Check out [ieee.org/publications\\_s...](#) for other author education events.' A calendar for June 2016 is shown at the bottom left. On the right side, there is a 'Join IEEE' button and an 'Advertisement' placeholder.

<https://iee-collabratec.ieee.org/app/community/18>

# 期刊杂志投稿

 IEEE Internet of Things Journal

Home Author Review

Author Dashboard / Submission

**Submission**

- Step 1: Type, Title, & Abstract >
- Step 2: File Upload >
- Step 3: Attributes >
- Step 4: Authors & Institutions >
- Step 5: Reviewers >
- Step 6: Details & Comments >
- Step 7: Review & Submit >

## Step 1: Type, Title, & Abstract

Select your manuscript type. Enter your title and abstract into the appropriate boxes below. If you need to insert a special character, click the "Special Characters" button. When you are finished, click "Next." [Read More ...](#)

\* = Required Fields

\* Type:

CHOICE	TYPE
<input type="radio"/>	Regular Article
<input type="radio"/>	IoT Letter - limited to 2 printed journal pages
<input type="radio"/>	Review Article
<input type="radio"/>	Tutorial Article
<input type="radio"/>	Expanded Conference Paper
<input type="radio"/>	Comments

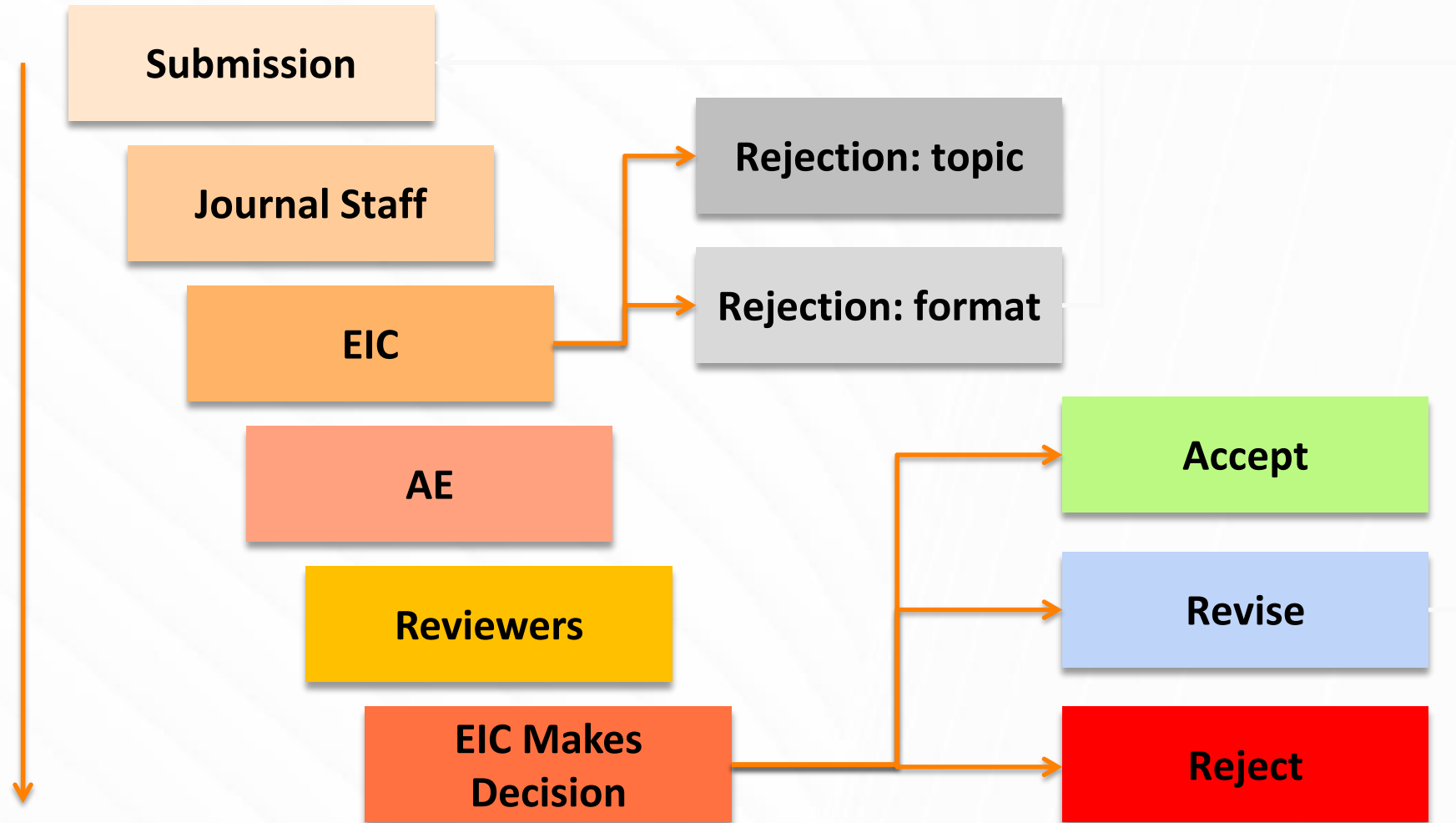
Degree:

Primary E-Mail Address:  req

[User Tutorials](#) [Journal Home](#)  
[Instructions & Forms](#) [Help / Site Support](#)

*plagiarism policies. For more information please visit:  
<http://www.crossref.org/crosscheck/index.html>*

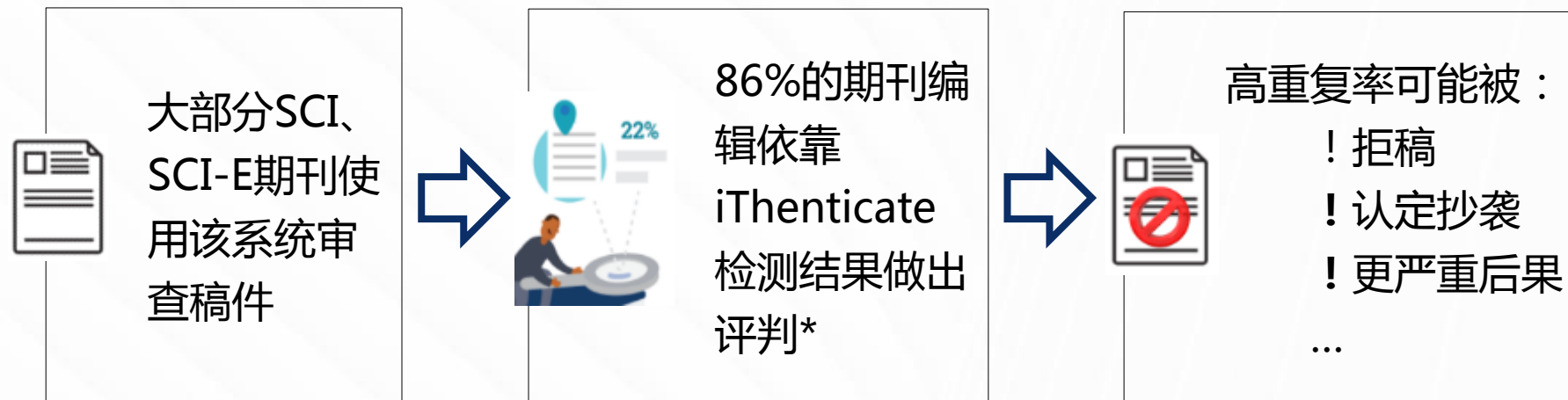
# 评审流程 Review Process



# 论文检测（查重）



包括 IEEE 在内的国际主要出版机构和大部分 SCI 期刊都使用 iThenticate/CrossCheck 审查稿件。





# IEEE评审标准

- 它是否提出了一个重要的新问题？
- 素材是否为原创？
- 方法和原理是否有效？
- 结论是否言之成理？
- 行文是否清晰？
- 插图、表格及图表是否为正文提供支持？
- 参考文献是否为最新并切合主题？
- 就期刊而言，文章内容是否符合其发稿范围和档次？

## IEEE拒稿原因

- 内容不十分贴切
- 存在严重的科学缺陷（结果不确定、解释不正确）
- 文笔欠佳
- 提出的问题并无重大意义，或不能促进科学领域的进步
- 作品之前已发表过
- 未达到期刊要求的良好质量
- 评审人对文章产生误解

# IEEE会议

1,700+

Conferences

基本均被EI收录

# 会议论文和期刊论文的区别

- 会议主要目的是通过演讲现场交流信息和交换想法
- 会议常常反映最新最前沿的研究，很多研究尚未到达正式期刊发表的程度。所以会议主要是快速传播科研信息，以从观众中获取宝贵的意见和反馈
- 会议常常会尽可能覆盖较多的参与者，所以很多会议论文接受率较高
- 没有演讲此类口头交流信息的形式
- 期刊发表体现更严格的评审以及更高质量的成果
- 大部分期刊论文至少有3名以上评审人审稿，并有副主编定稿
- 期刊论文必须很好地反映该领域研究状态，因为评审人会仔细审核其引用文献
- 期刊论文接受率通常远低于会议论文

# 检索即将召开的会议——了解更多会议信息



**International Conference on Computing, Networking and Communications (ICNC 2020)**

Big Island, Hawaii, USA  
February 17-20, 2020

 **IEEE**  

International Conference on Computing, Networking and Communication (ICNC), is a premier conference in the computer and communications fields. ICNC 2020 is to be held in February 17-20, 2020

ICNC 2020 covers the following technical areas:

- Cloud Computing and Big Data
- Communications and Information Security
- Communication QoS and System Modeling
- Internet Services and Applications
- Green Computing, Communications and Networking
- Machine Learning for Networking
- Mobile Computing and Vehicle Communications

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# IEEE 相关资源推介

# 欢迎参与IEEE学术交流！

- ◆ Involvement in IEEE Societies, Sections and Chapters
- ◆ Over 3,000 Student Branches in over 100 countries
- ◆ Participation in IEEE Young Professional and Women in Engineering
- ◆ 1700+ conferences per year
- ◆ IEEE Social media, such as Weibo, WeChat, etc.

# IEEE 个人会员

## IEEE会员专享服务

### 知识

IEEE Spectrum

IEEE Xplore

200+ 免费数字图书

IEEE TV

IEEE Institute

IEEE Potential

### 职业发展

IEEE Jobsite

IEEE Young Professional

IEEE继续教育课程

奖励和奖金

### 志愿者&回馈社会

志愿者

对年轻一代的贡献

人道主义项目

IEEE全球历史网络

### 社团

IEEE会议和出版物的折扣

分会，学生分支，技术社团

IEEE e-Mail

IEEE 专家联系

[http://cn.ieee.org/membership\\_join.html](http://cn.ieee.org/membership_join.html)



# IEEE免费技术讲座

- Spectrum免费讲座, 涉及最新科技:  
➤ <http://spectrum.ieee.org/webinars>
- Communication Society免费讲座, 通信领域热点技术:  
➤ <http://www.comsoc.org/webinars>
- Computer Society免费讲座, 计算机领域热点技术:  
➤ <http://www.computer.org/portal/web/webinars/Register-for-a-Webinar>
- Young Professional社团免费讲座, 涉及职业发展, 人文, 科技等内容:  
➤ <http://yp.ieee.org/members/webinars/past-webinars/>
- 加入志愿者虚拟社团, 获得行业最新咨询:  
➤ <http://oc.ieee.org/>

# 欢迎申请丰厚的IEEE奖学金！

## ◆ IEEE Fellowship/Scholarship

- IEEE Charles LeGeyt Fortescue Fellowship
- IEEE Computational Intelligence Society Conference Travel Grants
- IEEE Computational Intelligence Society Summer Research Grant
- IEEE Computer Society Merwin Scholarship
- IEEE Dielectrics and Electrical Insulation Society Graduate Student Fellowship
- IEEE Electron Devices Society Graduate Student Fellowship
- IEEE James C. Klouda Memorial Scholarship Award

.....

## ◆ IEEE Competitions

- Presidents' Change the World Competition
- IEEE Computer Society Simulator Design Competition
- Student paper contest

.....

<https://www.ieee.org/membership/students/scholarships-grants-and-fellowships.html>

## IEEE Xplore® MOOC 2019 秋季课程安排表

主题一 | IEEE Xplore 高效检索、文献调研及热点追踪



9月19日

主题二 | IEEE Xplore 检索功能进阶课程



10月17日

主题三 | IEEE 期刊会议投稿流程与注意事项



11月14日

特别系列 | “IEEE 投稿那些事” 系列课程



敬请期待!

QQ 课程时间: 周四 19:30-20:30

课程详细信息请访问:  
[http://cn.ieee.org/online\\_training.html](http://cn.ieee.org/online_training.html)  
课程注册请扫描下方二维码



课程结束后, 将评选“最佳出勤奖”  
和“最佳组织奖”  
期待您的关注和参与!



# IEEE Xplore MOOC 投稿那些事!



“投稿那些事儿：我的第一篇 IEEE 论文”系列课程，邀请三位曾在顶刊成功发表过文章的学术牛人来分享关于投稿方面的内容，满满的都是干货，而且手把手教你如何在 IEEE 期刊会议投稿。



第一讲: 11月24日, 10:00-11:00am  
主题: 论文经验分享: 从 IEEE 会议到顶刊  
宋宇, 北京大学微电子专业 2015 级博士研究生, 曾获得百人会英才学者奖, 国家奖学金、校长奖学金、唐立新奖学金、信息科学技术学院“学术十杰”等



第二讲: 11月26日, 19:30-20:30pm  
主题: 我的一篇 IEEE 期刊论文——“归功”于一次 IEEE 会议  
王余阳, 清华大学电机工程与应用电子技术系硕士研究生刚毕业。曾获得清华大学优秀本科毕业设计, 清华大学优秀硕士论文和清华大学优秀硕士毕业生称号。



第三讲: 12月5日, 19:30-20:30pm  
主题: 经验分享——如何投出自己的第一篇 IEEE 论文  
刘昌坤, 目前是电子科技大学电子学院在读研究生, IEEE 学生会员, 曾任 MWCL 审稿人。



第四讲: 12月12日, 19:30-20:30pm  
主题: IEEE 作者工具: 助力高质量写作出版  
李菁, IEEE 亚太区区域经理



课程详细信息请查看:  
[http://cn.ieee.org/online\\_training.html](http://cn.ieee.org/online_training.html)  
课程注册请扫描左侧二维码



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