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01 /

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02 /

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(深度挖掘单篇文章的潜在资源)

03 /

顺藤摸瓜

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04 /

有的放矢

(IEEE期刊会议投稿)

05 /

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**the Institute of Electrical
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电气电子工程师学会

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哎哟，老铁，可以啊，
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这篇文章的技术点我们可以研究下



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Date of current version February 26, 2020.
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IEEE Access

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

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ABSTRACT The Internet of Things (IoT) is a promising technology which tends to revolutionize and reshape 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. This guarantees 5G cellular networks, in particular, aim 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 low-service requirements for Massive 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-IoT of Things. Furthermore, 5G new radio enhancements for low-service requirements and enabling technologies for the IoT are introduced. This paper presents a comprehensive review relative 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 massive critical IoT applications are also presented, in coming up with an efficient system aware congestion control mechanism.


INDEX TERMS Internet of Things, long-term evolution, machine-type communication, 5G new radio.

1. INTRODUCTION

The Internet of Things (IoT) is an emerging and promising technology which tends to revolutionize the global world through connected physical objects, IoT devices with low-power devices, which interact with each other through the Internet. The concept of the IoT [1]-[6] has drawn the attention of the research community with the end goal of serving the wearables, sensors, smart appliances, wireless machines, vehicles, smart phones, smart transportation systems, etc., and other entities are connected to a common interface with the


ability to communicate with each other. IoT encompasses "Things" and enables machine-to-machine (M2M) communication, a means of data communication between heterogeneous devices without human intervention [7]. According to [8], this can be achieved through a seamless communication. Machine IoT is expected to enable a conducive environment that will impact and influence several aspects of everyday-life and business applications and contribute towards growing the world's economy. Though Machine-to-Machine IoT, depending on the nature of applications to be

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III. Existing IoT Communication Technology

IV. 3GPP Cellular Solutions for t Internet of Thi

V. 5G New Radio Enhancements Internet of Thi

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References

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Keywords

IEEE Keywords

5G mobile communication, Machine-to-machine communications, Mobile computing, Internet of Things

INSPEC: Controlled Indexing

5G mobile communication, cellular radio, Internet of Things, Long Term Evolution, mobile computing

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long-term evolution, mobile devices, low data rate devices, IoT devices, fifth generation mobile network, potential key enabler, IoT application requirements, associated communication technologies, generation partnership project cellular, low-power wide area solutions, extended coverage global system, mobile communications, enhanced machine-type communications, narrowband-Internet, 5G new radio enhancements, 5G mobile networks, critical IoT applications, 5G networks, global world, heterogeneous smart devices, seamless connectivity, current demand, diverse service requirements, modern IoT vision, cellular standards

Author Keywords

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Biography

Godfrey Anuga Akpakwu received the B.Eng. degree (Hons.) from the University of Pretoria, Pretoria, South Africa, in 2016, the B.Eng. degree (Hons) in ele 截图(Alt + A)lectronic engineering from the

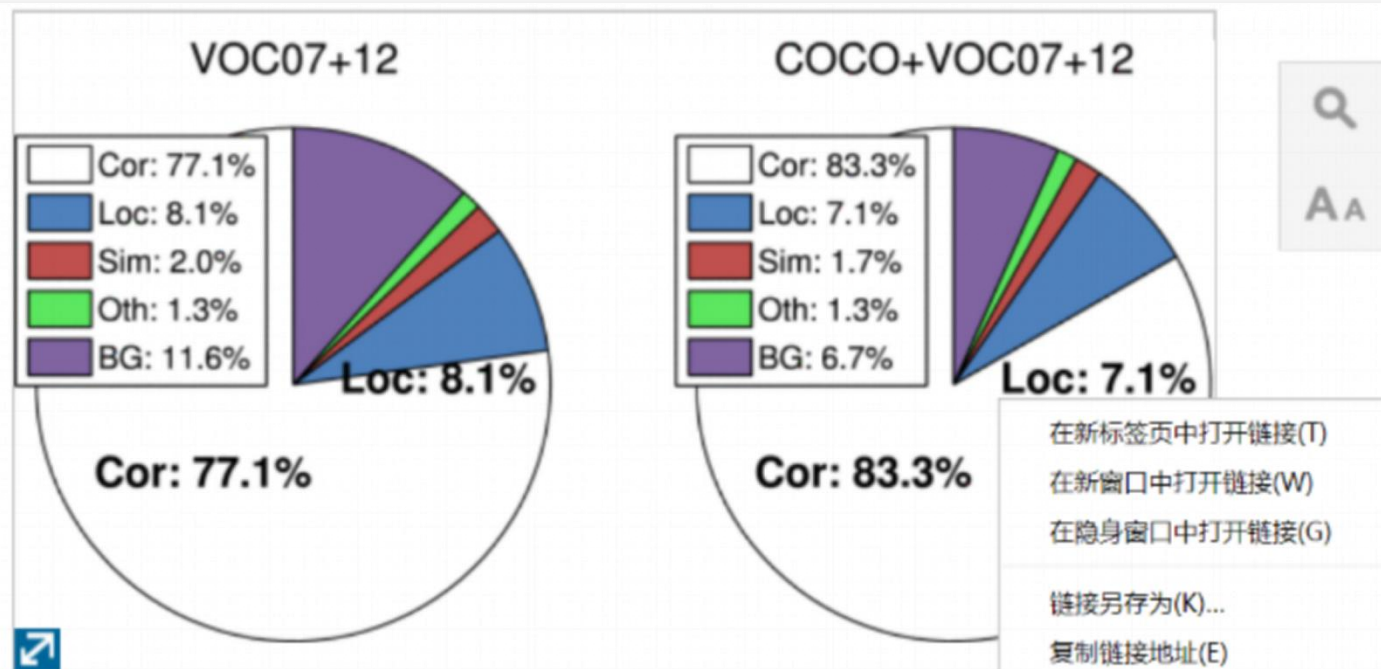


Fig. 7.

Error analyses on models trained with and without MS COCO data. The top-1 error analysis on the PASCAL VOC 2007 test. Distribution of top-ranked Cor (correct), Loc (false localization), Sim (confusion with a similar category), Oth (confusion with other category), BG (fired on background) is shown, which is generated by the diagnosis code of [40].

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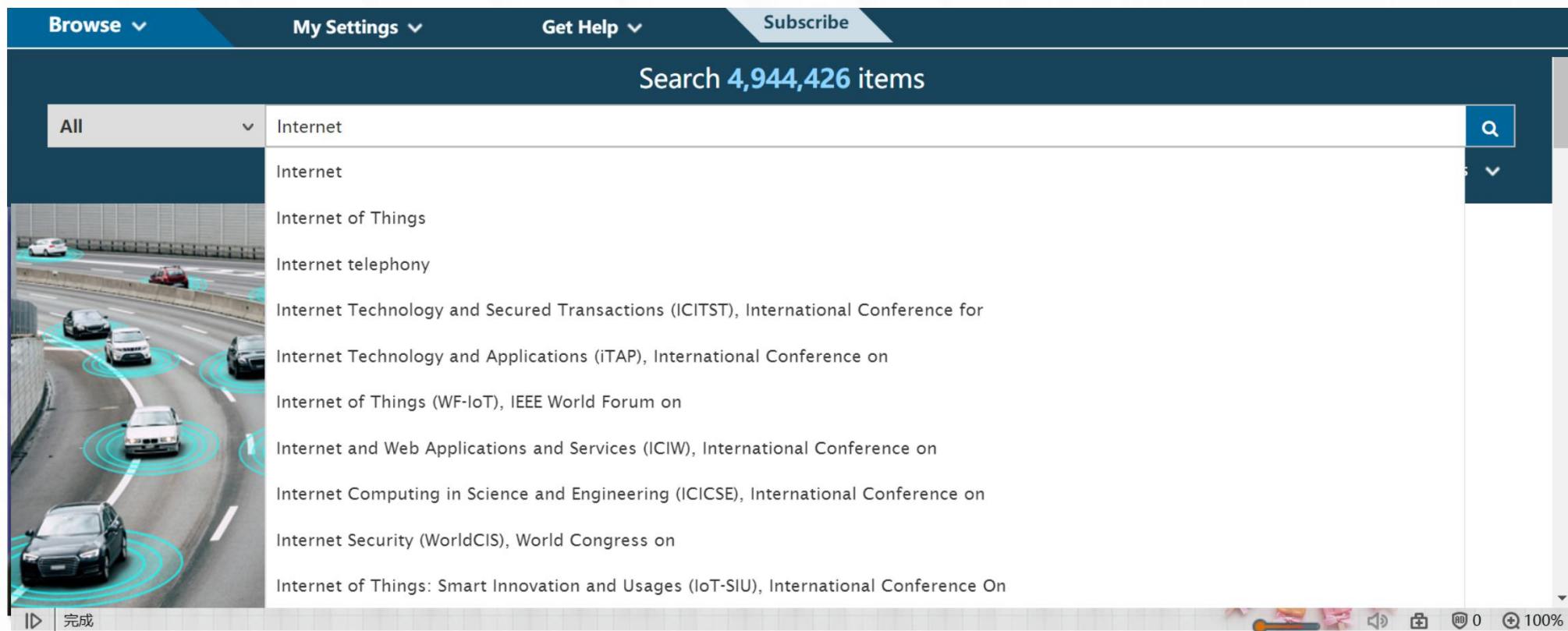
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A new cloud-based network framework for 5G massive Internet of Things

Yongbin Wang ; Zhongping Zhang ; Ping Zhang ; Zheng Ma ; Gang Ma

2017 IEEE 17th International Conference on Communication Technology (ICCT)

Year: 2017 | Conference Paper | Publisher: IEEE

Cited by: Papers (2)

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Analysis of the Internet of Things devices integration in 5G network

Lidiia Ignatova ; Abdukodir Khakimov ; Albahri Mahmood ; Ammar M. Al-Hussaini

2017 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SINKHROINFO)

Year: 2017 | Conference Paper | Publisher: IEEE

Cited by: Papers (3)

Abstract (html) PDF (480 Kb) CC

Application of 5G next generation network to Internet of Things

Suresh Borkar ; Himangi Pande

2016 International Conference on Internet of Things and Applications (IOTA)

Year: 2016 | Conference Paper | Publisher: IEEE

Cited by: Papers (15)

Abstract (html) PDF (456 Kb) CC

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CHANNELS SWITCH SEQUENCES OF 300 IPTV VIEWERS IN A MONTH

Citation Author(s): Sixuan Ren and Can Yang in South China University of Technology

Submitted by: Can Yang

Last updated: Thu, 11/08/2018 - 10:34

DOI: 10.21227/H2396N

Data Format: TXT

License: Creative Commons Attribution

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> Other

KEYWORDS

> IPTV, Recommender System, Machine Learning

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DATASET FILES

> IPTVChannelSwitchSequencesUsers300.txt (3.91 MB)

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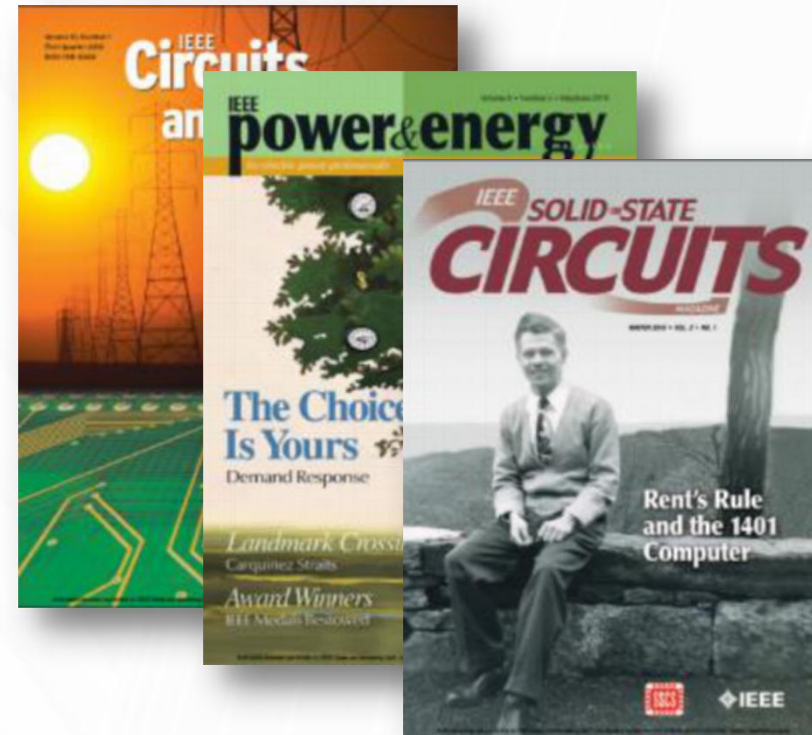
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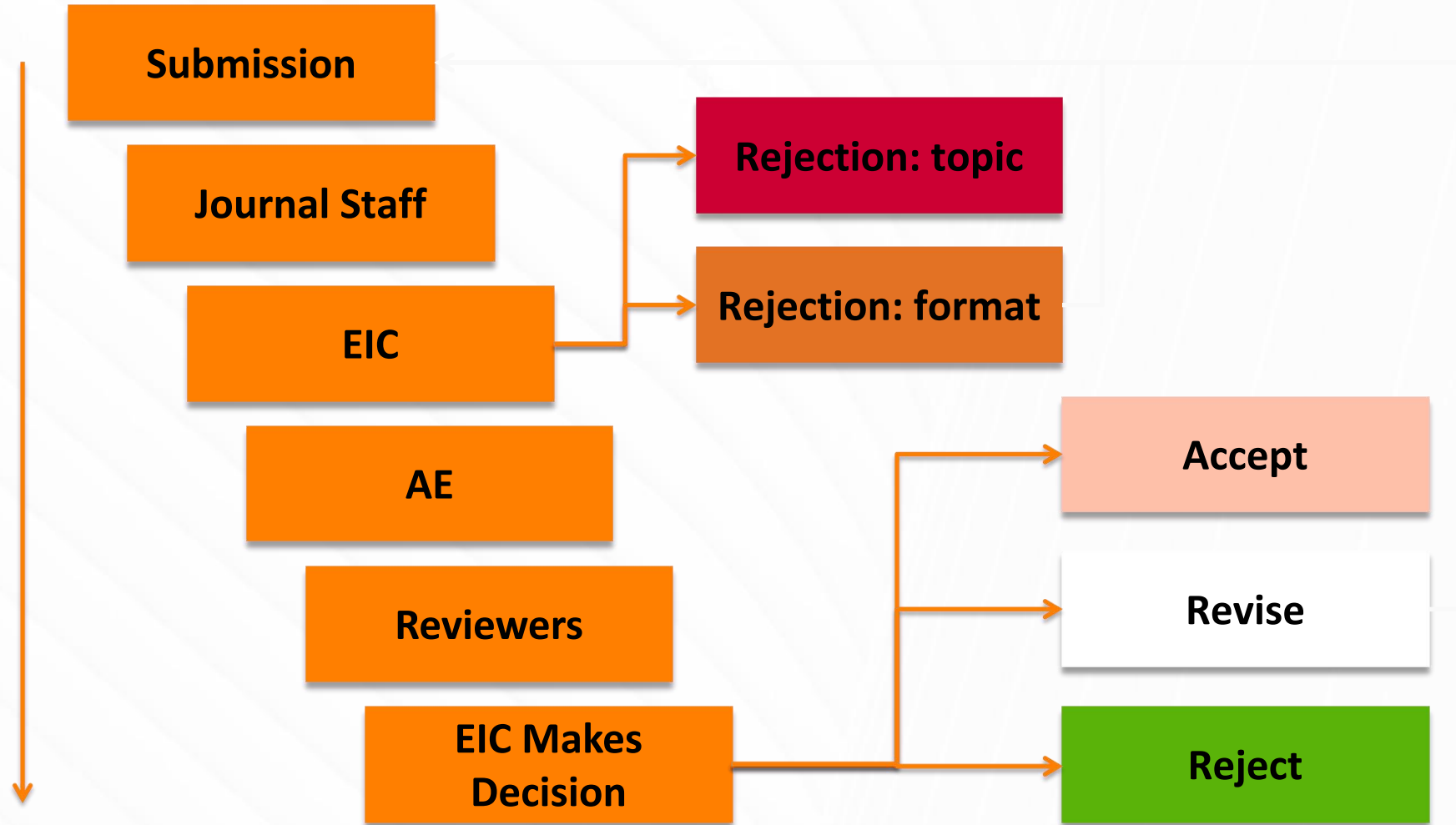
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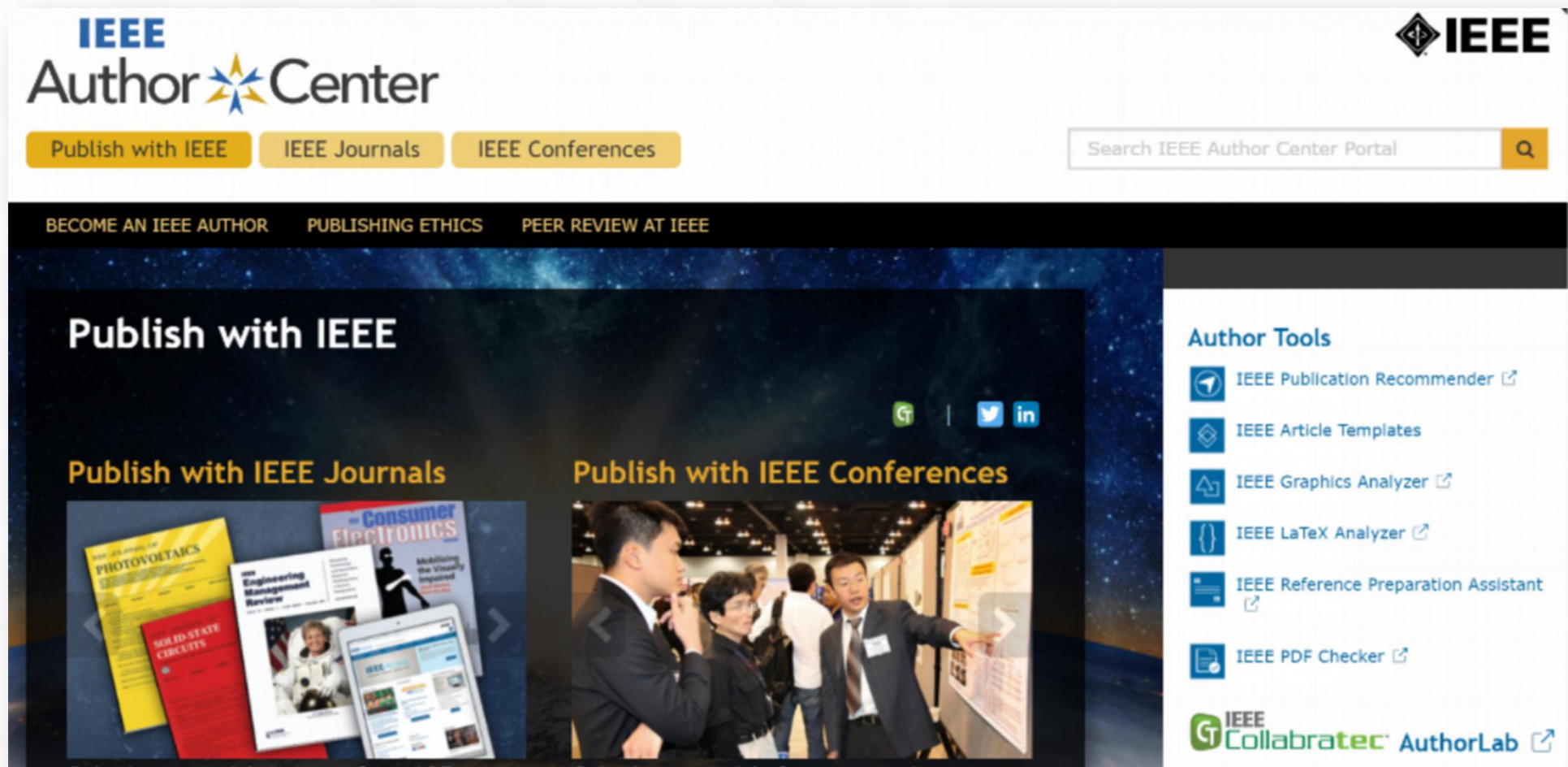
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IEEE Collabratec AuthorLab

The screenshot displays the IEEE AuthorLab community page. On the left, there is a vertical banner with the IEEE Collabratec logo and a background image of a modern building. 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 the header, the page is divided into several sections. A 'Community provided by' section lists 'IEEE Publications'. A 'Participants' section shows a grid of 9 user avatars and a count of 4336. Below this is a button labeled 'All Participants'. A navigation bar contains icons for 'Activities', 'Files', 'Q & A', 'Events', and 'Participants'. The main content area shows '263 Post(s) in Community' with a search icon. The first post is by 'Tiffany Mckerahan', posted '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.' At the bottom, there is a calendar for 'June 2016' showing the days of the week and the first four days of the month.

IEEE AuthorLab

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.

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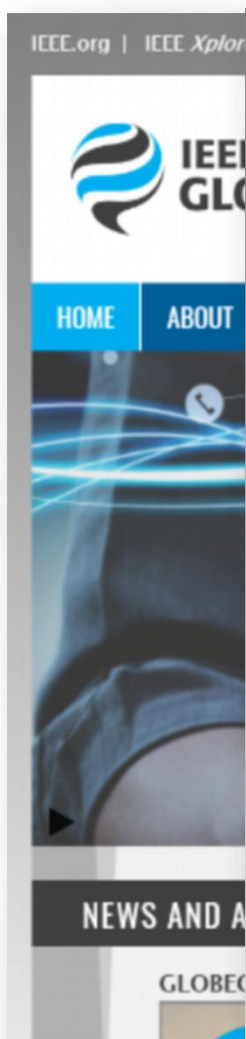
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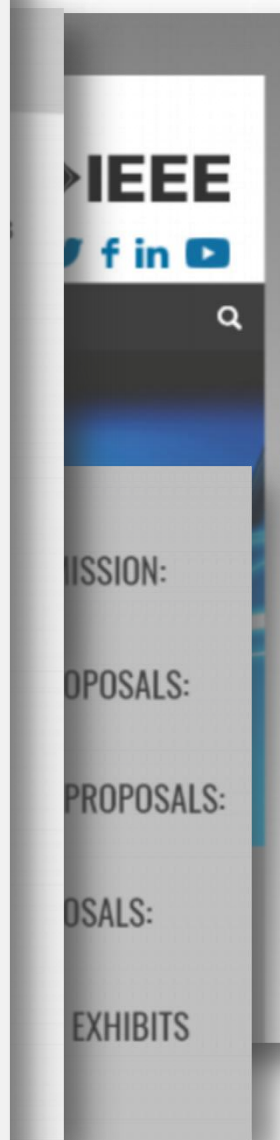
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Intelligent

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