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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 internet domain for machine-type communications (MTC) has become a variety of communication technologies with diverse service requirements to address 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 networks, in particular, aims to address the limitations of previous cellular networks and to be a potential key enabler for future IoT. In this paper, the state-of-the-art of the IoT applications and requirements along with their associated communication technologies are surveyed. In addition, the third-generation partnership project cellular-based, low-power wide-area solution to support and enable the low-power requirements for massive IoT 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, 10 use cases/enablers for low-power requirements and enabling technologies for the IoT are introduced. This paper presents a comprehensive review related to emerging and existing technologies with main focus on 5G wide-area networks that is envisaged to support the exponential traffic growth for enabling the IoT. The challenges and open research questions pertinent to the deployment of massive IoT applications are also presented to convey an insight into the current research community's overall direction.

INDEX TERMS Internet of Things, long-term evolution, machine-type communications, 5G networks.

1. INTRODUCTION
The Internet of Things (IoT) is an emerging and promising technology which aims to revolutionize the global world through connected physical objects. IoT deals with low-power devices which interact with each other through the Internet. The concept of the IoT [1]–[4] has drawn the attention of the research community worldwide in terms of covering the wearable, sensors, smart appliances, smart machines, health, smart devices, smart transportation, smart cities, and other entities are connected to a common interface with the ability to communicate with each other. IoT interconnected “Things” and enables machine-to-machine (M2M) communication, a means of data communication between heterogeneous devices without human intervention [5]. According to [6], this can be achieved through a standard communication protocol. IoT is expected to enable a wide range of applications that will impact and influence several aspects of everyday life: smart business applications and complete smart cities, smart homes, smart transportation, smart cities, smart devices, smart transportation, smart cities, and other entities are connected to a common interface with the

VOLUME 9, NO. 1, JANUARY 2021

2020

文章细节页面

Journals & Magazines > IEEE



Godfrey Anuga Akpakwu ^{ID}

Also published under: G. A. Akpakwu

Document Sections

- 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

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

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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

Internet of Things, long-term evolution, machine-type communications, 5G new radio

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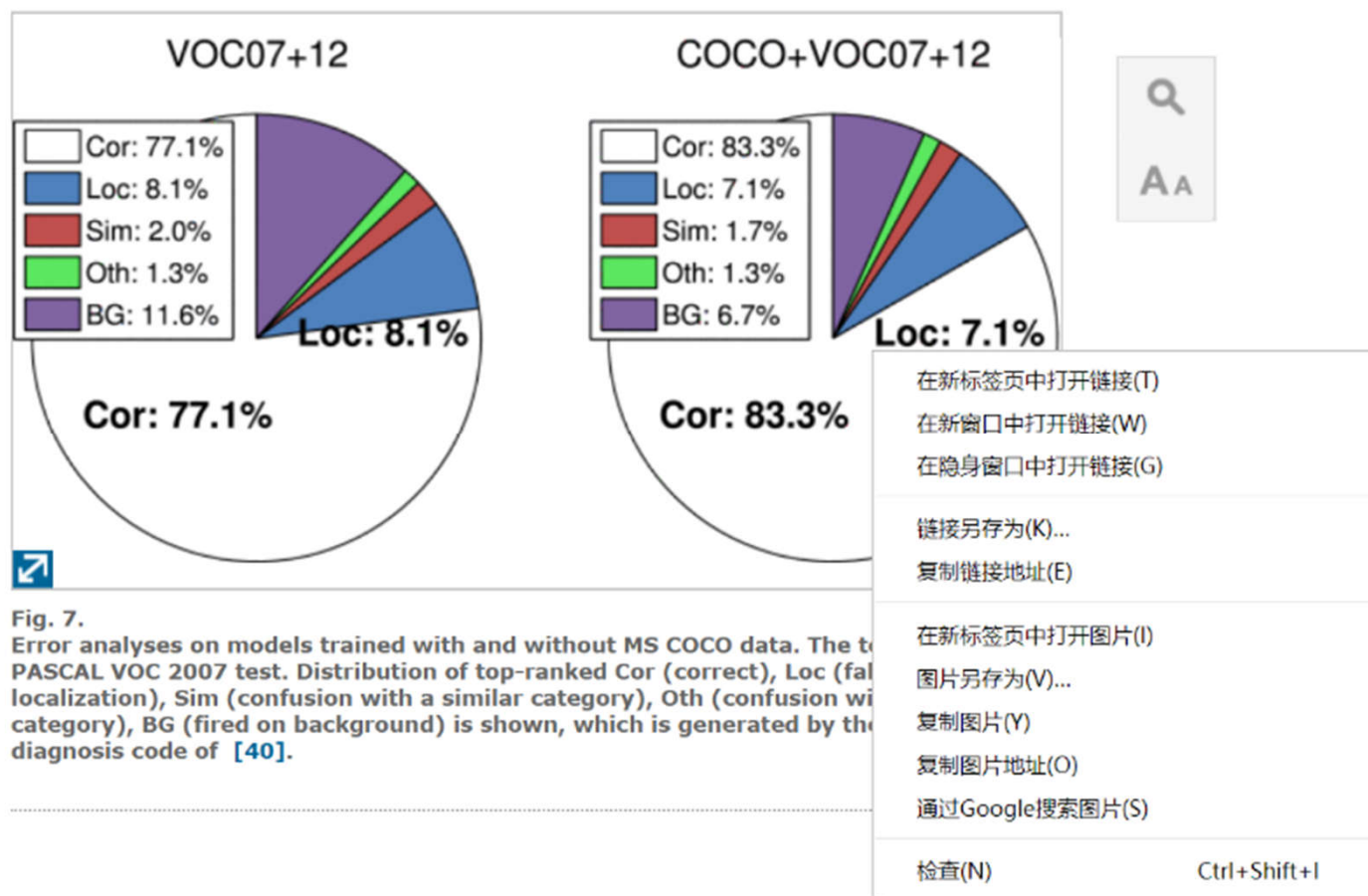
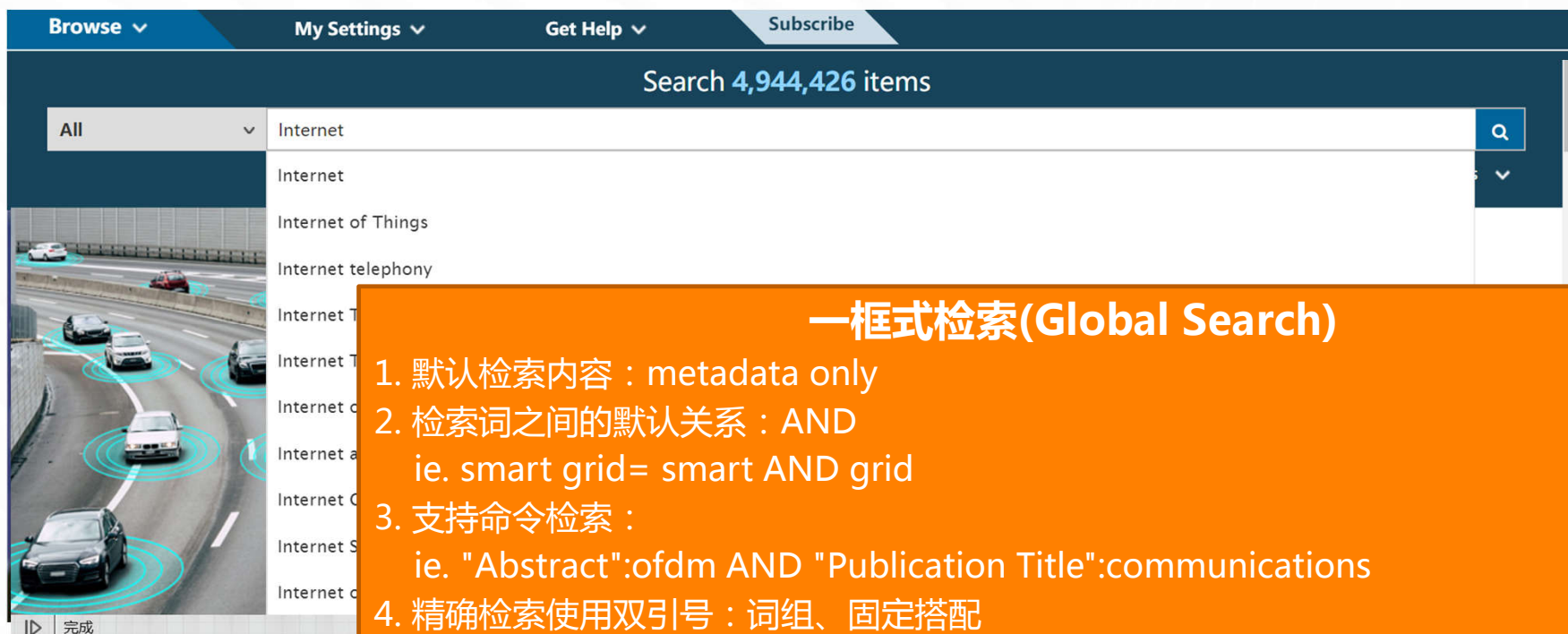


Fig. 7. Error analyses on models trained with and without MS COCO data. The top-1 error analysis on the PASCAL VOC 2007 test. Distribution of top-ranked Cor (correct), Loc (false localization), Sim (confusion with a similar category), Oth (confusion with other category), BG (fired on background) is shown, which is generated by the diagnosis code of [40].

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A new cloud-based network framework for 5G massive Internet of Things connections 
Yongbin Wang ; Zhongping Zhang ; Ping Zhang ; Zheng Ma ; Gang Liu
2017 IEEE 17th International Conference on Communication Technology (ICCT)
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Analysis of the Internet of Things devices integration in 5G networks 
Lidiia Ignatova ; Abdulkodir Khakimov ; Albahri Mahmood ; Ammar Muthanna
2017 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SINKHROINFO)
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Application of 5G next generation network to Internet of Things 
Suresh Borkar ; Himangi Pande
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Citation Author(s): Sixuan Ren and Can Yang in South China University of Technology	CATEGORIES
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Last updated: Thu, 11/08/2018 - 10:34	> Discrete-time signal processing
DOI: 10.21227/H2396N	> Other
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Abstract:
This dataset includes the Channels Switch Sequences of 300 IPTV viewers in Guangzhou, P.R. China, in August, 2014. There are 4 columns in the file, which represent viewer ID, the current channel number, the next channel number, the date of the month, respectively. The first column, the ID code of a viewer, ranks in descent with the times the viewer watched tv channels. The more times a viewer watches tv channels, the bigger the ID is. In a day, the rows are time series and generated step by step as the real watching tv behavior.

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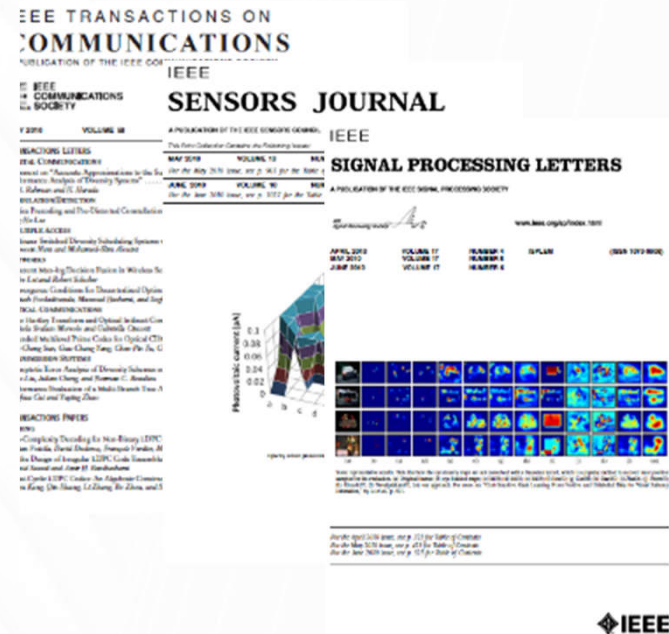
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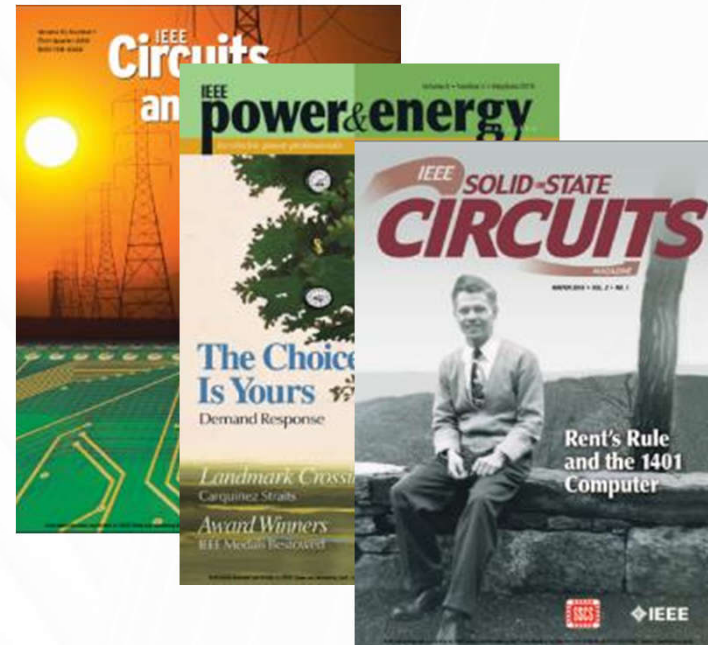
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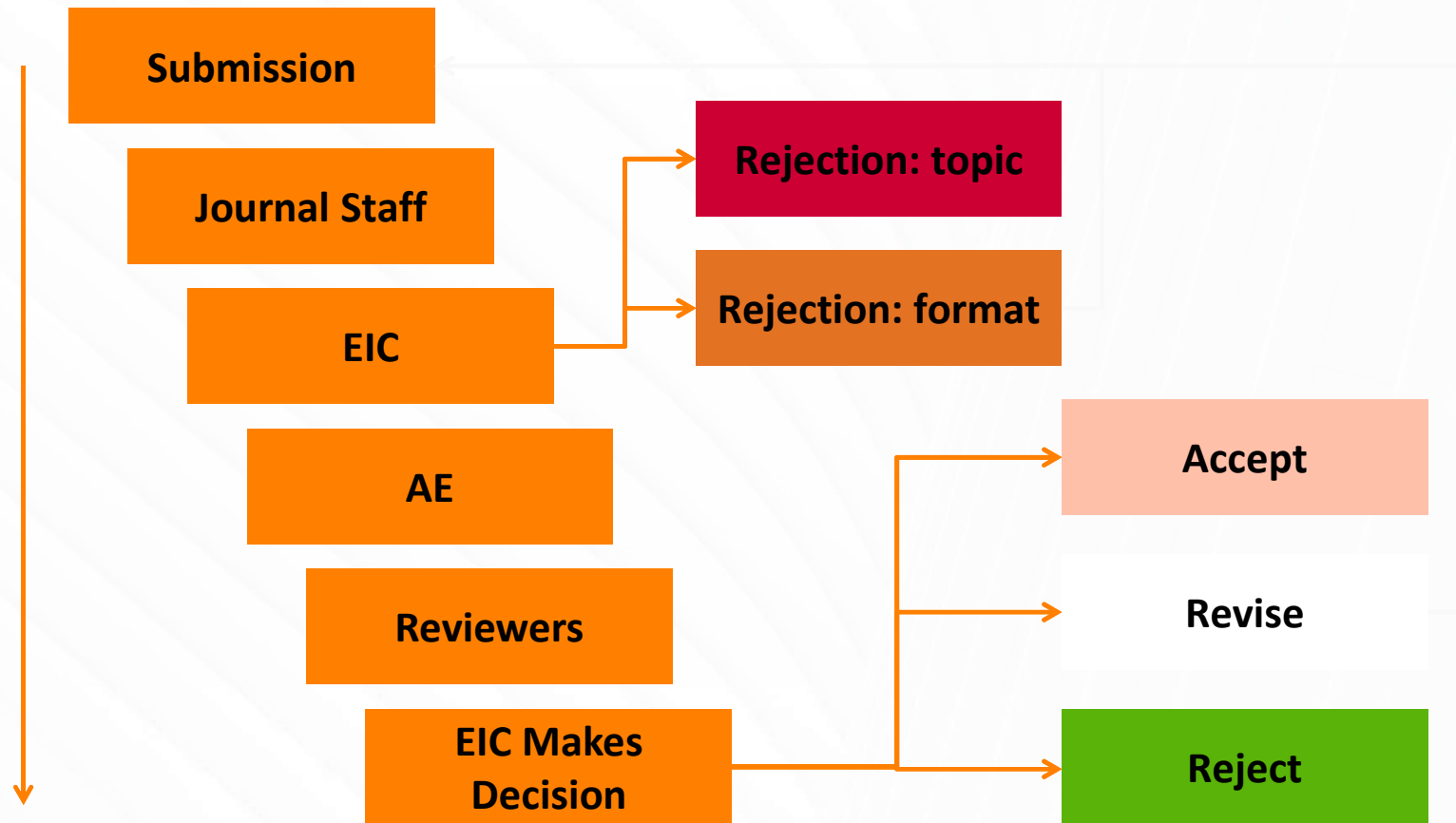
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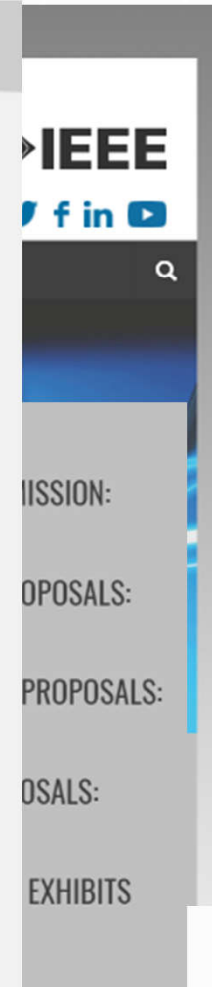
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