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电气电子工程师学会

IEEE, pronounced "Eye-triple-E"

IEEE组织情况

- 非营利组织，全球最大的技术行业学会，成员遍布180多个国家地区，会员超过43万人



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1/3 的文献



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IEEE Access
Volume 6, Number 1, January 2018

Received October 24, 2017; revised December 21, 2017; date of publication December 4, 2017; date of current version February 28, 2018.
 DOI: 10.1109/ACCESS.2017.2762018

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

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This work was supported in part by the Department of Science and Technology (DST), University of Pretoria, South Africa, and in part by the Ministry of Science, Culture and Higher Education, South Africa.

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 paradigm for machine-type communications (MTC) has resulted in 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, 4G LTE category (Cat) mobile networks, in particular, that 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 4G LTE partnership project cellular-based low-power wide-area solutions to support and enable the low service requirements for Massive to Critical IoT use cases are discussed in detail, including cellular coverage global systems for mobile communications for the Internet of Things, enhanced machine-type communications, and narrowband Internet 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 to critical IoT applications are also presented, in coming up with an efficient context-aware congestion control mechanism.

INDEX TERMS Internet of Things, long-term evolution, machine-type communications, 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, which 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 with the end goal of serving the wearables, sensors, smart appliances, washing machines, tablets, 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 [5]. According to [6], 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 proving the world's economic growth. Massive and Critical IoT, depending on the nature of applications to be

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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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Metrics

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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

INSPEC: Non-Controlled Indexing

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

Year

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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 electronic engineering from the

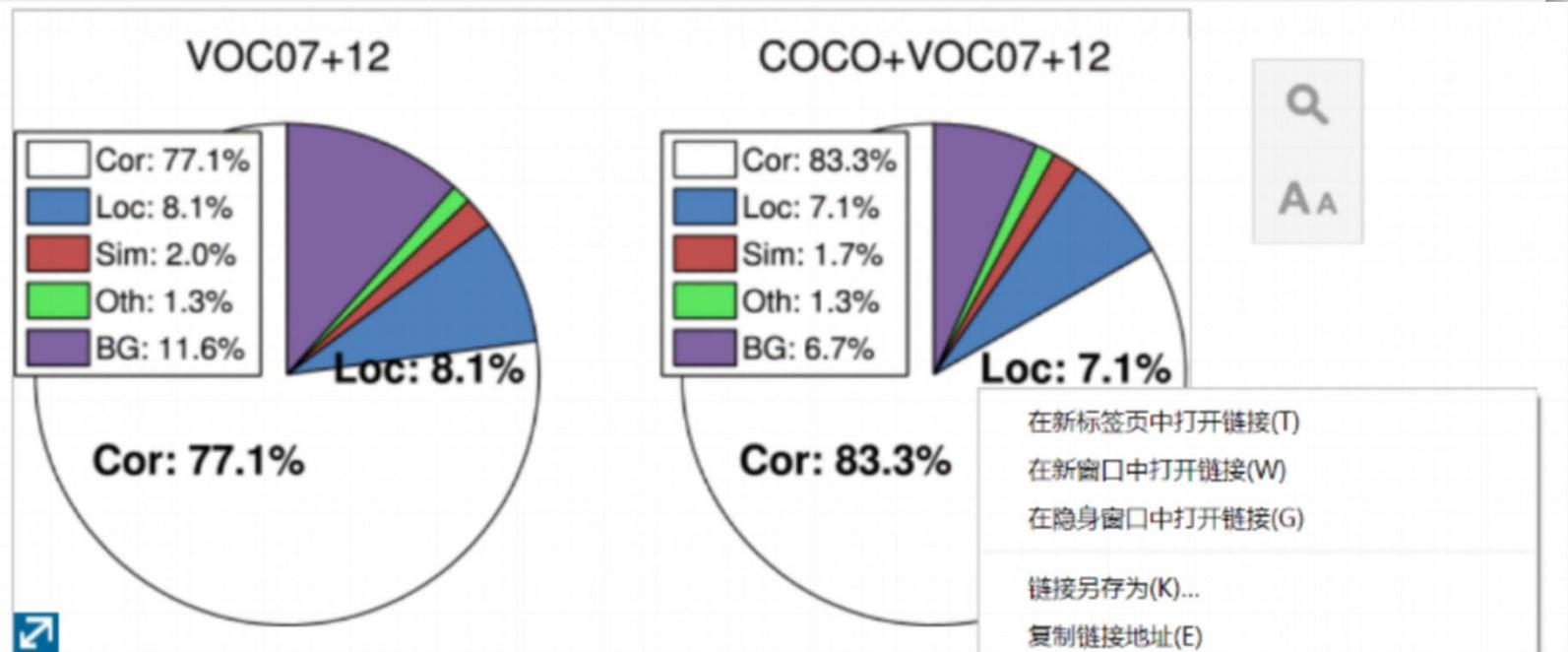


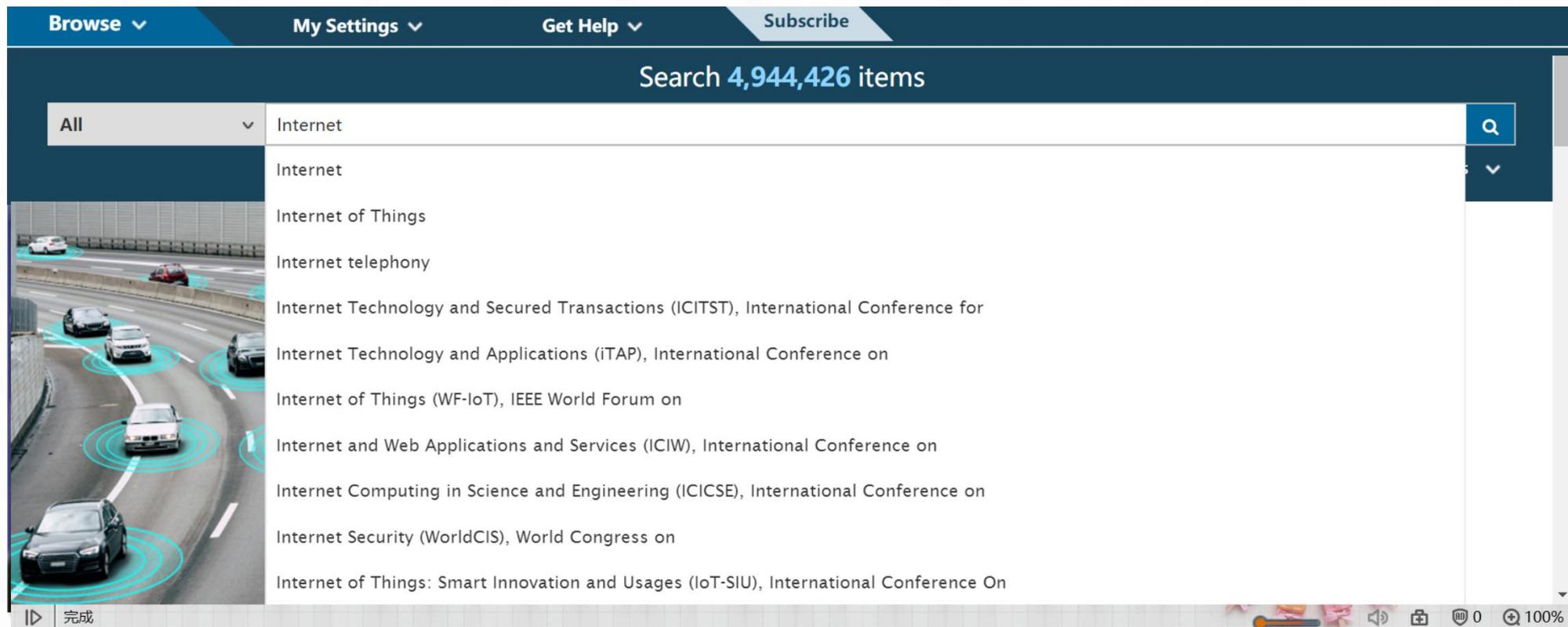
Fig. 7. Error analyses on models trained with and without MS COCO data. The top-1 error analysis on the PASCAL VOC 2007 test. Distribution of top-ranked Cor (correct), Loc (false localization), Sim (confusion with a similar category), Oth (confusion with other category), BG (fired on background) is shown,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

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Year 

Single Year Range

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From To

2014 2019

Author 
Affiliation 
Publication Title 
(CVPR) (171)

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- Oldest First
- Most Cited [By Papers]**
- Most Cited [By Patents]
- Publication Title A-Z
- Publication Title Z-A

高被引文献

A new cloud-based network framework for 5G massive Internet of Things
Yongbin Wang ; Zhongping Zhang ; Ping Zhang ; Zheng Ma ; Gang Wang
2017 IEEE 17th International Conference on Communication Technology (ICCT)
Year: 2017 | Conference Paper | Publisher: IEEE
Cited by: Papers (2)
[Abstract](#) [\(html\)](#)  (910 Kb) 

Analysis of the Internet of Things devices integration in 5G network
Lidiia Ignatova ; Abdulkodir Khakimov ; Albahri Mahmood ; Ammar M. Al-Bayati
2017 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SINKHROINFO)
Year: 2017 | Conference Paper | Publisher: IEEE
Cited by: Papers (3)
[Abstract](#) [\(html\)](#)  (480 Kb) 

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
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Code & Datasets

Code Dataset ?

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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	CATEGORIES
Submitted by: Can Yang	> Communications
Last updated: Thu, 11/08/2018 - 10:34	> Discrete-time signal processing
DOI: 10.21227/H2396N	> Other
Data Format: TXT	KEYWORDS
License: Creative Commons Attribution	> IPTV, Recommender System, Machine Learning
Dataset Views: 196	

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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.

DATASET FILES

- > IPTVChannelSwitchSequencesUsers300.txt (3.91 MB)

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Books (7)

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- bandwidth stealing
- broadband

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The 'Author' dropdown menu is open, listing authors with their respective article counts. The first entry, 'Xuelong Li (341)', is highlighted with a red box. Other authors listed include Wei Wang (282), Min Tan (260), Wen Gao (243), Fei-Yue Wang (242), Tieniu Tan (228), Lei Wang (223), Ming Liu (202), Yaohua Li (192), Xiaowei Li (185), Wei Li (185), Yuechao Wang (182), Hanqing Lu (166), Qingming Huang (166), and Lei Zhang (160).

In the background, a search results page is visible. A 'Set Alert' dialog box is open, with a red box around the 'Search Alert Name*' input field. The dialog also shows the 'Email Address' field with the value 'malka@igroup.com.cn' and 'Cancel' and 'Save' buttons. The search results list includes articles such as 'High voltage power supply and solid state modulator for CSNS linac triode-type klystron' and 'Open MRI Magnet With Iron Rings Correcting the Lorentz Force and Field Quality'.

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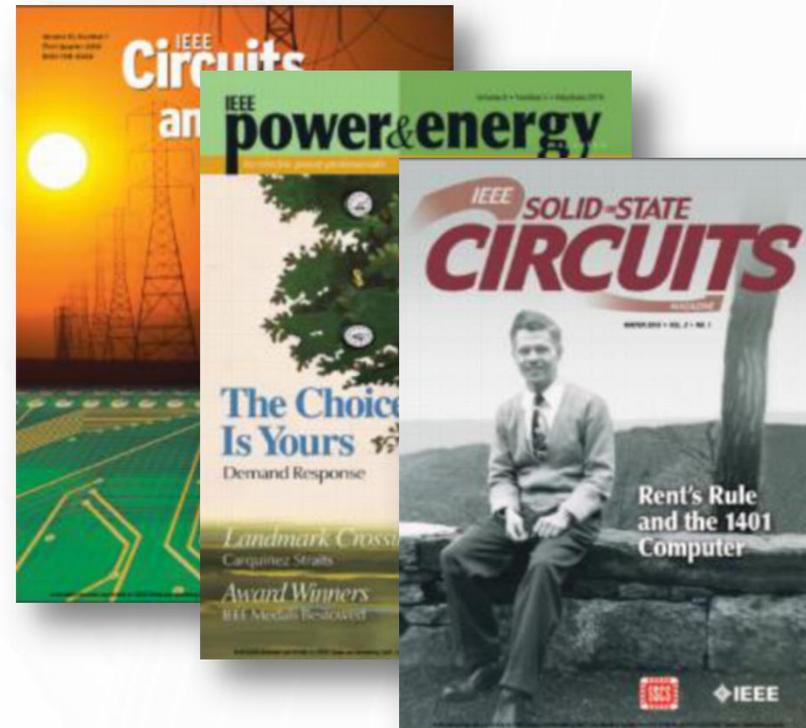
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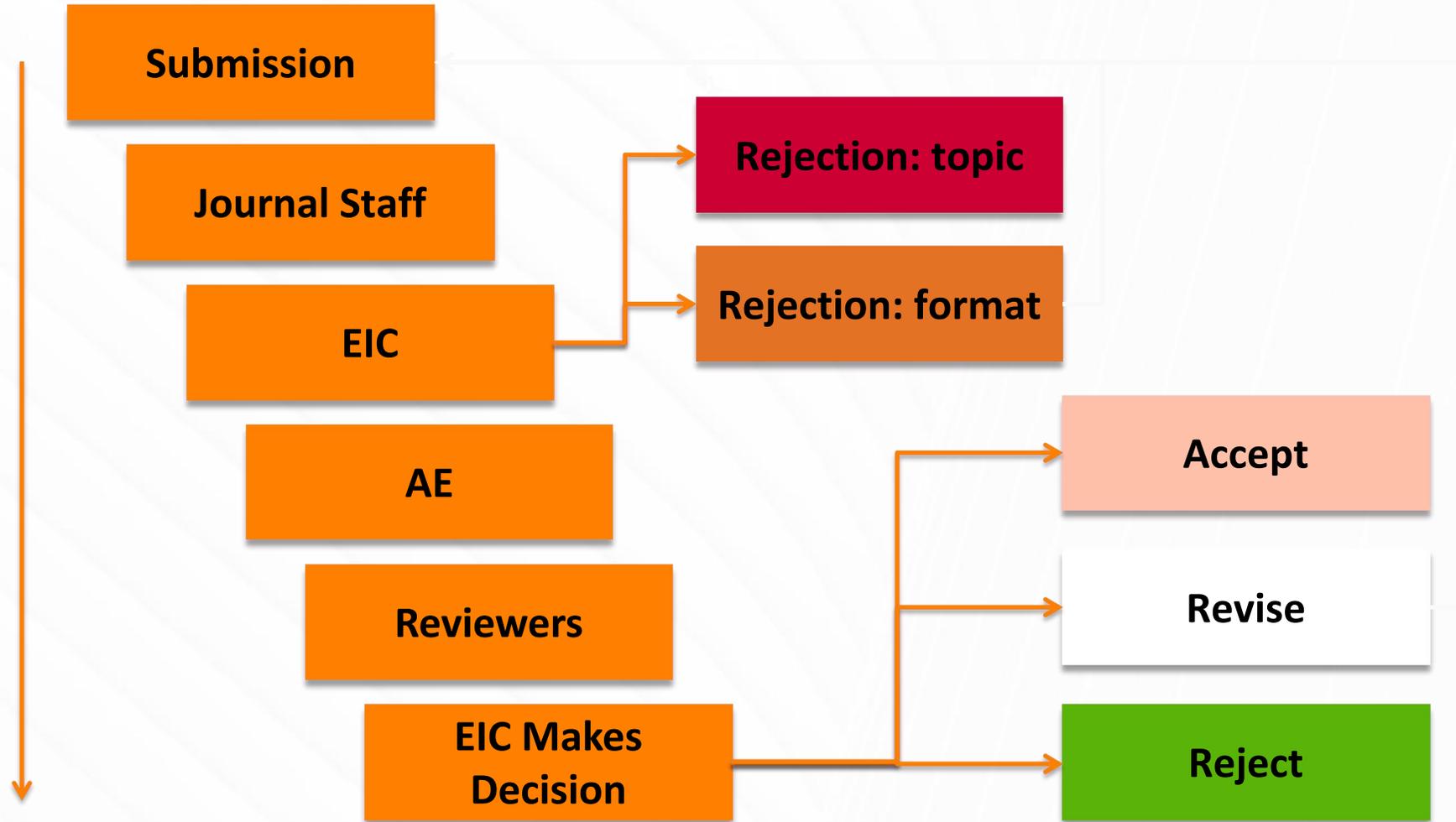
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