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電機電子工程師學會

IEEE 歷史起源

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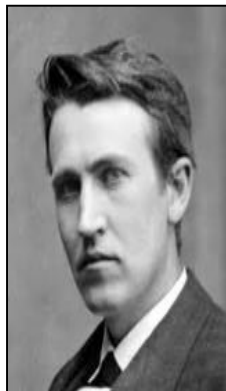
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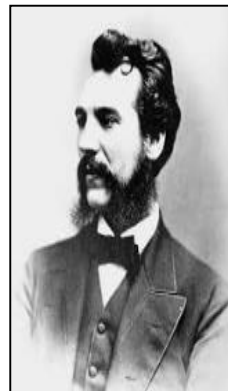
一起開會的場景嗎？

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與其他著名電氣工程師在費城的
會議上會面，

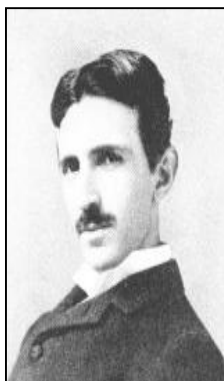
這是美國第一次舉行正式的電氣
工程師技術會議



Thomas Edison



Alexander Graham Bell



Nikola Tesla

美國電機工程師協會於1884年10月7~8日舉行了其第一次會議。這是美國舉行的第一次正式的電氣工程技術會議



IEEE 的歷史進程

1884

1912

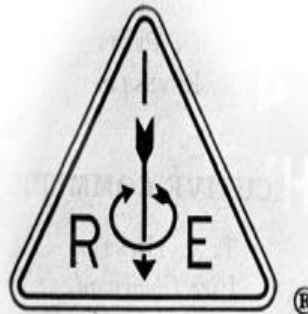
1963

Present

1884年春季，托馬斯·愛迪生、亞歷山大·格拉漢姆·貝爾和其他著名人士創立了美國電氣工程師協會（AIEE）



AIEE
American Institute
of Electrical Engineers



IRE
Institute of Radio
Engineers



60年前的1月1號，AIEE和IRE合併成為
Institute of Electrical and Electronics Engineers
(IEEE).

1912年，無線技術和電子領域的先驅們創立了更具國際性的無線電工程師學會(Institute of Radio Engineers)

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- 非營利組織，全球最大的技術學會之一，成員遍佈160多個國家地區，會員超過40萬人
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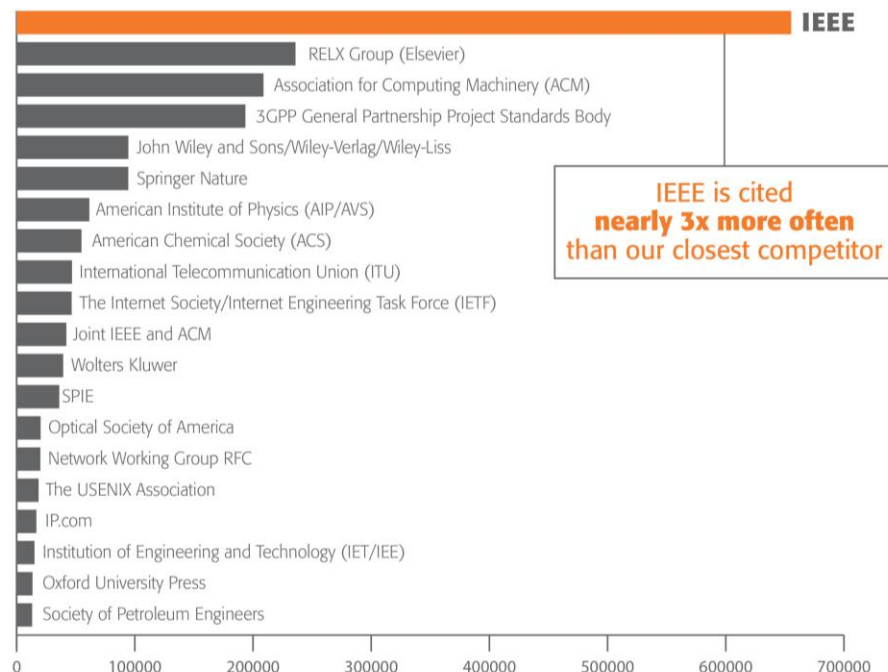
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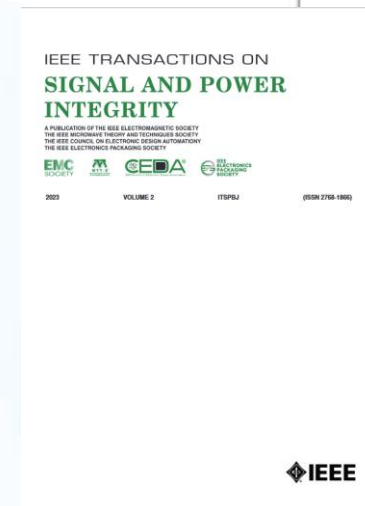
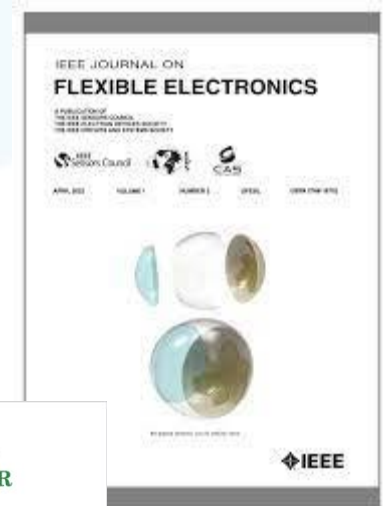
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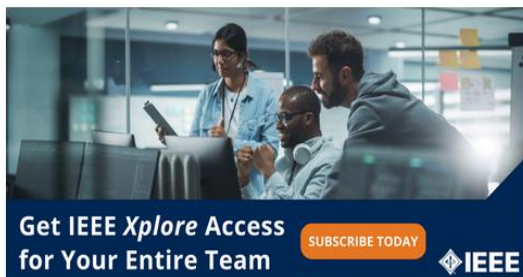


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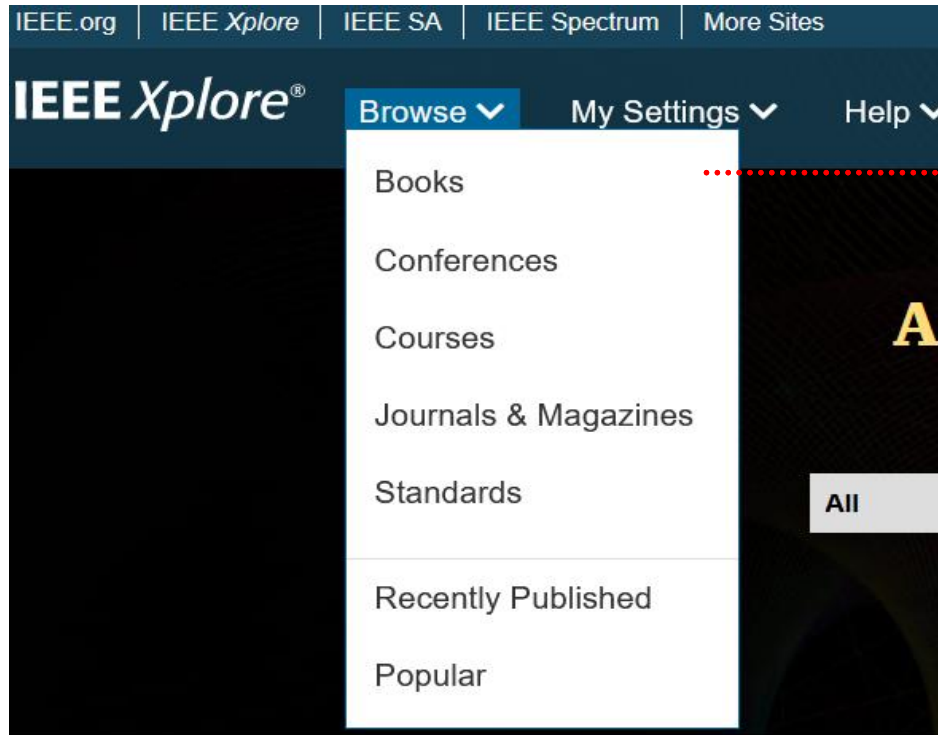
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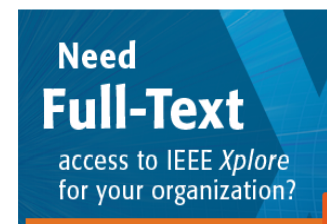
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☐ **A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems**

Walid Saad; Mehdi Bennis; Mingzhe Chen

Publication Year: 2020 , Page(s): 134 - 142

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Yuanhao Cui; Fan Liu; Xiaojun Jing; Junsheng Mu

Publication Year: 2021 , Page(s): 158 - 167

Cited by: Papers (87)

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» 6G: Research Agenda and
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» Conclusion and
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Abstract:

The ongoing deployment of 5G cellular systems is continuously exposing the inherent limitations of this system, compared to its original premise as an enabler for Internet of Everything applications. These 5G drawbacks are spurring worldwide activities focused on defining the next-generation 6G wireless system that can truly integrate far-reaching applications ranging from autonomous systems to extended reality. Despite recent 6G initiatives (one example is the 6Genesis project in Finland), the fundamental architectural and performance components of 6G remain largely undefined. In this article, we present a holistic, forward-looking vision that defines the tenets of a 6G system. We opine that 6G will not be a mere exploration of more spectrum at high-frequency bands, but it will rather be a convergence of upcoming technological trends driven by exciting, underlying services. In this regard, we first identify the primary drivers of 6G systems, in terms of applications and accompanying technological trends. Then, we propose a new set of service classes and expose their target 6G performance requirements. We then identify the enabling technologies for the introduced 6G services and outline a comprehensive research agenda that leverages those technologies. We conclude by providing concrete recommendations for the roadmap toward 6G. Ultimately, the intent of this article is to serve as a basis for stimulating more out-of-the-box research around 6G.

Published in: [IEEE Network](#) (Volume: 34 , Issue: 3, May/June 2020)

Page(s): 134 - 142

Date of Publication: 16 October 2019

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Short Packets", *Proc. IEEE*, vol. 104, no. 9, pp. 1711-26, Sept. 2016.

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Abstract

Document Sections

» Introduction

» 6G Driving Applications, Metrics, and New Service Classes

» 6G: Enabling Technologies

» 6G: Research Agenda and Open Problems

» Conclusion and Recommendations

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Abstract:

The ongoing deployment of 5G cellular systems is continuously exposing the inherent limitations of this system, compared to its original premise as an enabler for Internet of Everything applications. These 5G drawbacks are spurring worldwide activities focused on defining the next-generation 6G wireless system that can truly integrate far-reaching applications ranging from autonomous systems to extended reality. Despite recent 6G initiatives (one example is the 6Genesis project in Finland), the fundamental architectural and performance components of 6G remain largely undefined. In this article, we present a holistic, forward-looking vision that defines the tenets of a 6G system. We opine that 6G will not be a mere exploration of more spectrum at high-frequency bands, but it will rather be a convergence of upcoming technological trends driven by exciting, underlying services. In this regard, we first identify the primary drivers of 6G systems, in terms of applications and accompanying technological trends. Then, we propose a new set of service classes and expose their target 6G performance requirements. We then identify the enabling technologies for the introduced 6G services and outline a comprehensive research agenda that leverages those technologies. We conclude by providing concrete recommendations for the roadmap toward 6G. Ultimately, the intent of this article is to serve as a basis for stimulating more out-of-the-box research around 6G.

Published in: [IEEE Network](#) (Volume: 34 , Issue: 3, May/June 2020)

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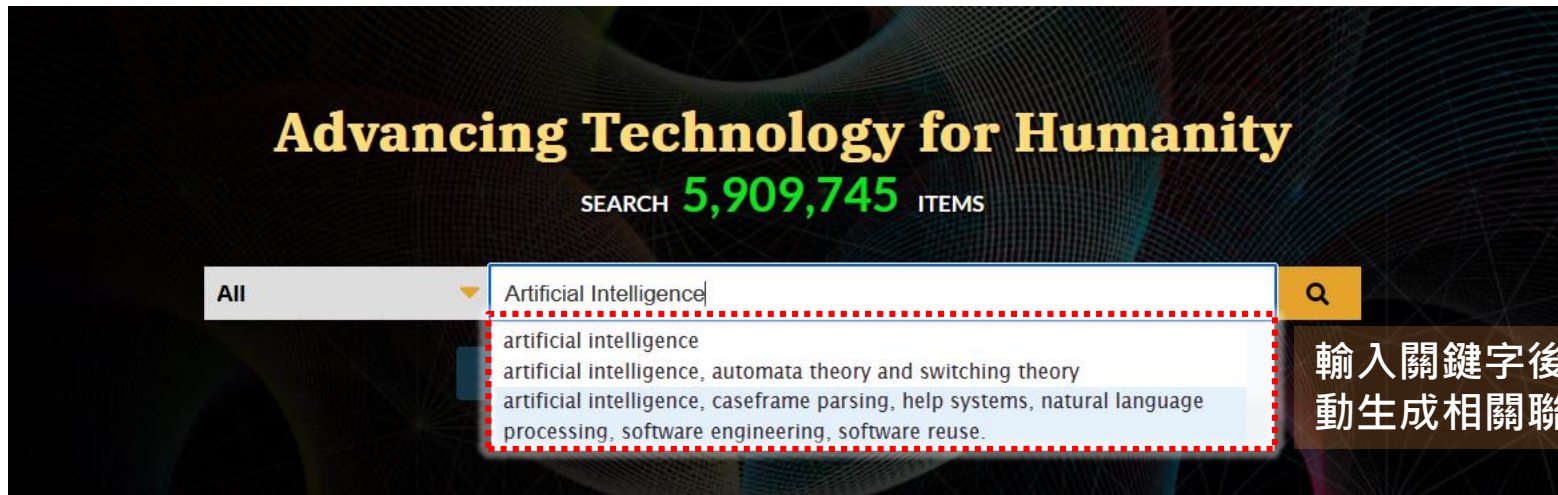
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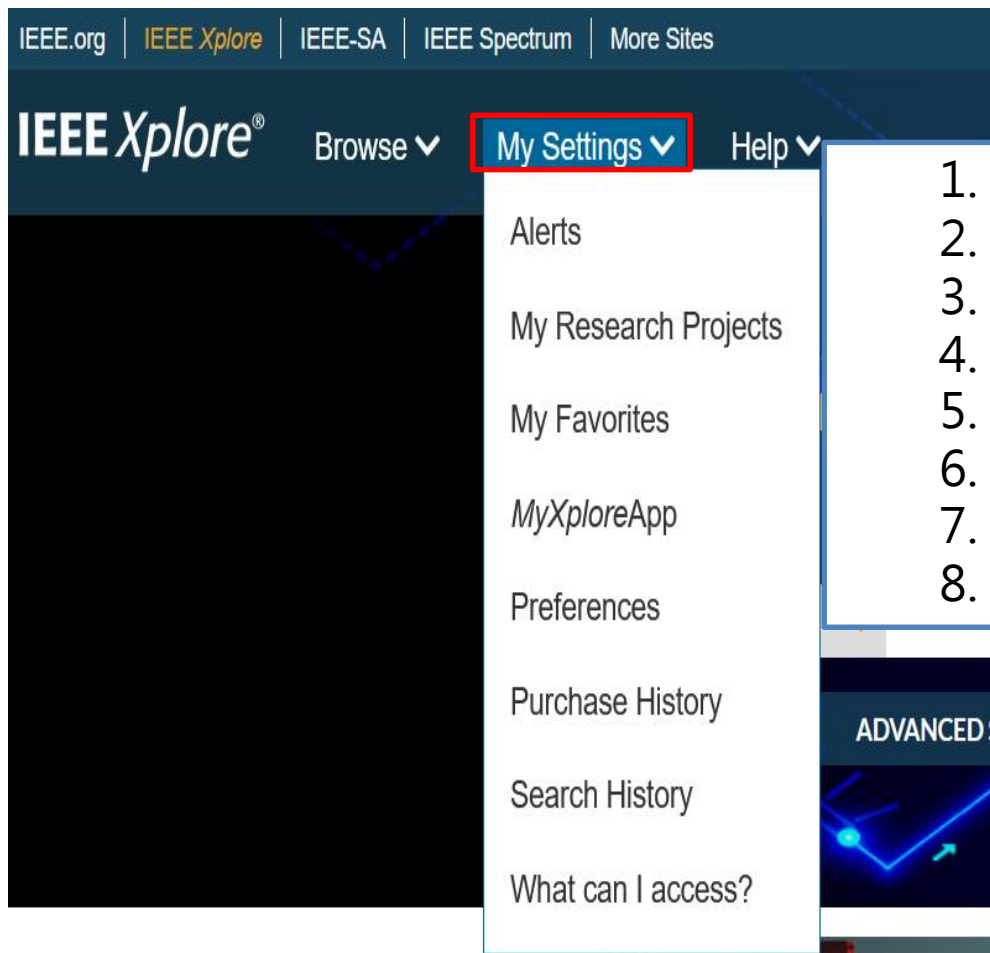
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Carlos Pereira ; António Pinto ; Duarte Ferreira ; Ana Aguiar
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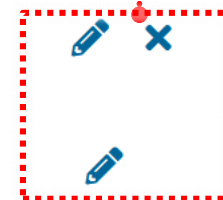
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