



# IEEE高质量科技资源 助力高效科研创新

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# Content

- ▶ IEEE Xplore——您身边的顶尖科技资源库
- ▶ 多种方法助力高效检索科研文献
- ▶ IEEE投稿攻略，攻克投稿壁垒
- ▶ 善用IEEE衔接学业与职业发展

# IEEE Xplore——您身边的顶尖科技资源库



The **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers

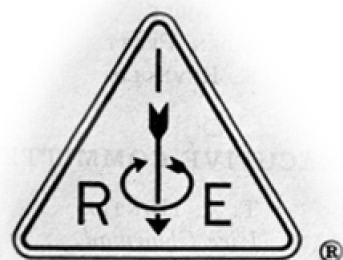
电气电子工程师学会

# IEEE的成立

1884 ..... 1912 ..... 1963 ..... Present



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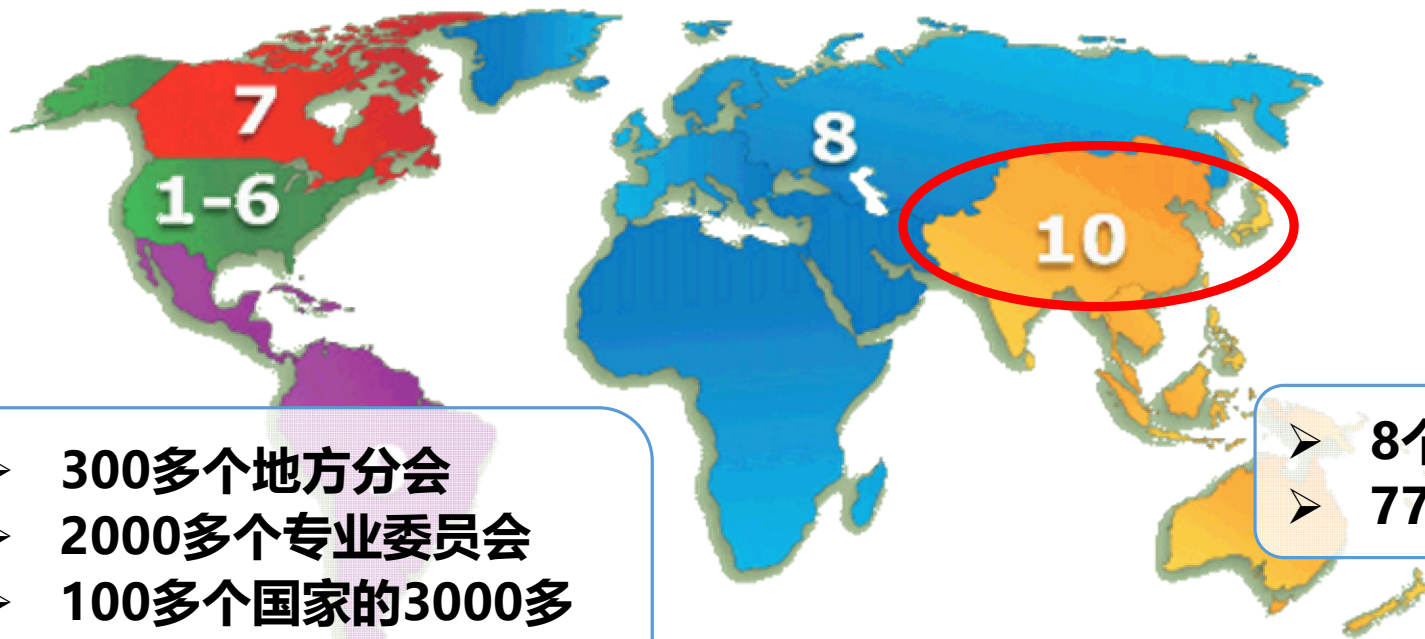
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**IEEE**  
The Institute of Electrical and  
Electronics Engineers  
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# IEEE组织情况

- 非营利组织，全球最大的技术行业学会，成员遍布190多个国家地区，会员超过46万人



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- 2000多个专业委员会
- 100多个国家的3000多个学生分会

- 8个地方分会
- 77个学生分会

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- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
- IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectrics and Electrical Insulation Society
- IEEE Education Society
- IEEE Electron Devices Society
- IEEE Electronics and Electrical Engineering Society
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- IEEE Engineering in Medicine and Biology Society
- IEEE Geoscience and Remote Sensing Society
- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
- IEEE Information Theory Society
- IEEE Instrumentation and Measurement Society

- IEEE Intelligent Transportation Systems Society
- IEEE Magnetics Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Oceanic Engineering Society
- IEEE Photonics Society

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- IEEE Power Quality Society
- IEEE Power Systems Society
- IEEE Signal Processing Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society

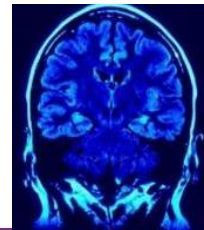
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More than just electrical engineering & computer science

- Aerospace & Defense
- Automotive Engineering
- Biomedical Engineering
- Circuits & Systems
- Cloud Computing
- Communications
- Computer Software
- Electronics
- Energy
- Engineering
- Imaging
- Information Technology
- Medical Devices
- Nanotechnology
- Petroleum & Gas
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- Power Systems
- Robotics & Automation
- Semiconductors
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1/3 的文献





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EE

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The screenshot shows the IEEE Xplore website with an "Institutional Sign In" modal window open. The modal window has a blue header with the text "Institutional Sign In" and a close button. Below the header, the text "Sign In to IEEE Xplore" is followed by a search prompt "Search for your Institution" and an empty text input field. A checked checkbox is labeled "Remember my Institution with SeamlessAccess", with a link "Learn More about SeamlessAccess" below it. A horizontal line with "OR" in the center separates this from a button labeled "Sign In with Username and Password". The background of the website shows the IEEE Xplore logo, navigation links, and a banner for the "IEEE Climate Change Collection" with a "Go to the Collection" button. Below the banner is a "Featured Authors" section with profile pictures and names: Long Cheng, Mariagrazia Dotoli, and Mark Anastasio. A feedback icon is visible in the bottom right corner of the page.

# IEEE Xplore访问

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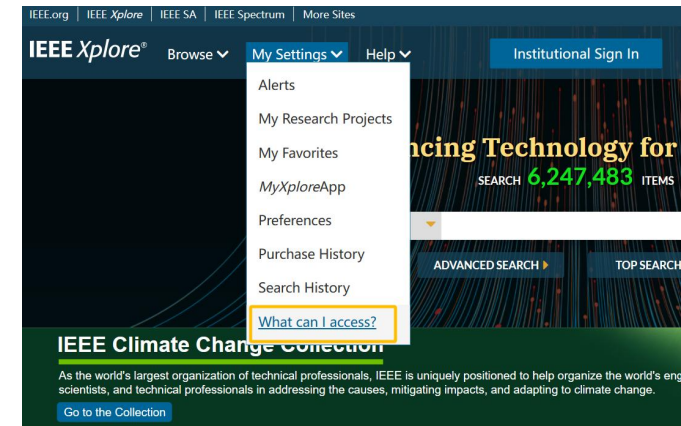
URL: <https://ieeexplore.ieee.org>

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- Bell Labs技术期刊
- 文献回溯至2017年

IEEE-ASPP数据库

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# 多种方法助力高效检索科研文献

# IEEE Xplore介绍

## News and Updates



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WEDNESDAY, 5 MARCH 2025  
12:00 p.m. ET | 6:00 p.m. CET

1 hour (45 minutes presentation, 15 minutes live Q&A)

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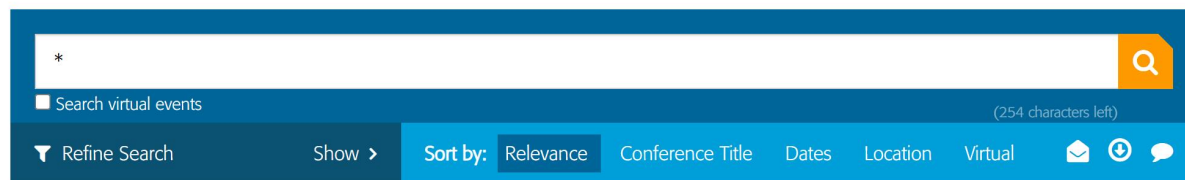
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19 OCT	2025 IEEE SENSORS	<a href="#">CALL FOR PAPERS</a> <a href="#">ABOUT</a>

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Search bar with asterisk (\*) and search icon

Search virtual events (254 characters left)

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Displaying results 1 - 10 of 1511 for \*

[Results on Map](#)

### 2025 International Conference on Mobile and Miniaturized Terahertz Systems (ICMNTS)

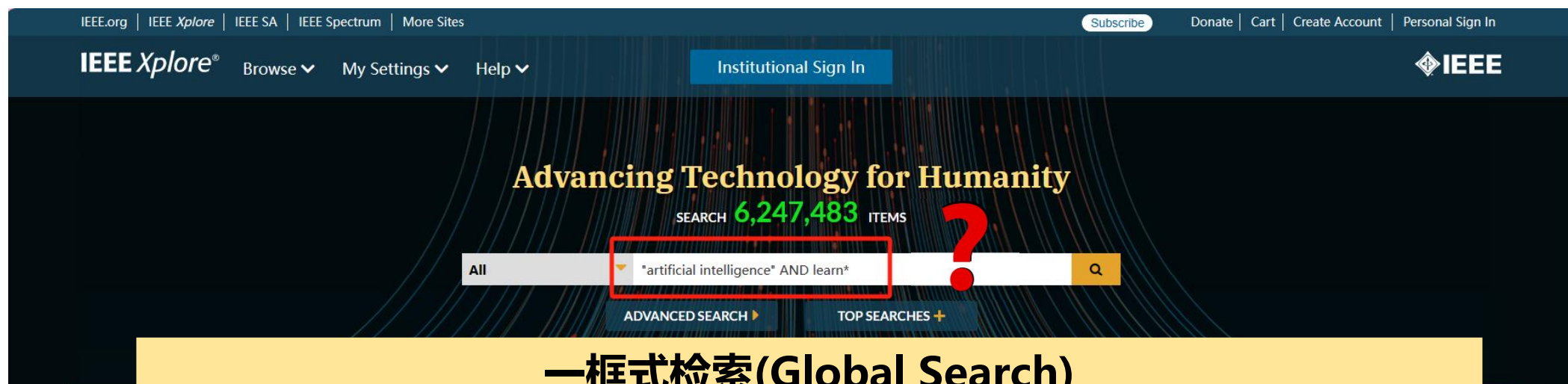
23 - 26 February 2025 | Dubai, United Arab Emirates | Event Format: In-person

**Sponsors:** IEEE Microwave Theory and Technology Society; University of Duisburg-Essen

**Field of Interest:** Communication, Networking and Broadcast Technologies; Components, Circuits, Devices and Systems; Fields, Waves and Electromagnetics; Photonics and Electrooptics; Signal Processing and Analysis



# 一框式检索核心技术



## 一框式检索(Global Search)

1. 默认检索内容: metadata only
2. 检索词之间的默认关系: AND 如 artificial intelligence = artificial AND intelligence
3. 自动获取词根: 名词单复数, 动词时态变换, 英式美式拼写
4. 模糊检索使用\*和? : learn\* (可以包含learn、learning、learned、learner)
5. 精确检索使用双引号: 词组、固定搭配; 如 "artificial intelligence"
6. 支持命令检索: 如"Abstract": artificial AND "Publication Title": intelligence
7. 检索词不区分大小写, 检索运算符全部大写

# AI驱动的文獻挖掘-利用deepseek构建检索词库

你是一位数据库检索专家，请根据研究人员的需求编写关于智能电网的英文检索词词库，来指导研究人员了解智能电网技术的最新进展与应用，要求如下：

- 1.检索词应该清晰、精准、易于理解，贴合当下技术的发展
- 2.在输出检索词的同时用通俗易懂的语言进行简单解释，例如使用生活中的例子，并配合中文释义



## 智能电网英文检索词词库

### 1. Smart Grid

- **解释:** 智能电网是一种现代化的电力系统，通过数字技术和自动化管理来提高电力传输和分配的效率。就像智能手机比传统手机更智能一样，智能电网比传统电网更高效、更灵活。
- **中文释义:** 智能电网

### 2. Microgrid

- **解释:** 微电网是一个小规模的电力系统，可以独立运行或与主电网连接。就像家里的备用发电机，可以在停电时提供电力。
- **中文释义:** 微电网

### 3. Demand Response

- **解释:** 需求响应是一种电力管理策略，通过调整用户的用电行为来平衡电网负荷。就像在高峰时段减少用电，以避免停电。
- **中文释义:** 需求响应

### 4. Distributed Energy Resources (DER)

- **解释:** 分布式能源资源是指分散在不同地点的发电设备，如太阳能板和风力涡轮机。就像每个家庭都有自己的小发电厂。
- **中文释义:** 分布式能源资源

### 5. Energy Storage System (ESS)

- **解释:** 能源存储系统用于储存电能，以便在需要时使用。就像手机充电宝，可以在没电时提供电力。
- **中文释义:** 能源存储系统

### 6. Grid Modernization

- **解释:** 电网现代化是指通过新技术和基础设施升级来提高电网的效率和可靠性。就像将旧房子翻新，使其更现代化和舒适。
- **中文释义:** 电网现代化

### 7. Advanced Metering Infrastructure (AMI)

- **解释:** 高级计量基础设施是一种智能电表系统，可以实时监测和记录用电情况。就像智能手表可以实时监测你的健康状况。
- **中文释义:** 高级计量基础设施

### 8. Cybersecurity in Smart Grid

- **解释:** 智能电网的网络安全是指保护电网免受网络攻击和故障。就像家里的防盗系统，保护你的家免受入侵。
- **中文释义:** 智能电网的网络安全

# AI驱动的文獻挖掘-利用deepseek构建检索式

Search within results

Showing 1-25 of 12,046 results for **(Microgrid OR "Distributed Generation" OR "Islanded Operation" OR "Grid Resilience") AND ("Energy Management" OR "Renewable Energy Integration" OR "Energy Storage System")** ×

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**A low complexity control and energy management for DC-coupled hybrid microgrid with hybrid energy storage system**   
Ujjal Manandhar; Abhisek Ukil; Hoay Beng Gooi; Narsa Reddy Tummuru; Sathish Kumar Kollimalla  
2017 IEEE Power & Energy Society General Meeting  
Year: 2017 | Conference Paper | Publisher: IEEE  
Cited by: Papers (4)  
v Abstract    HTML    PDF    CC

**A Novel Fuzzy/SMC based Energy Management Strategy for Hybrid Energy Storage System in an Isolated DC Microgrid**   
Pouria Safari; Ehsan Farrokhi; Hoda Ghoreishy  
2024 9th International Conference on Technology and Energy Management (ICTEM)  
Year: 2024 | Conference Paper | Publisher: IEEE  
v Abstract    HTML    PDF    CC

**EMS for Bidirectional Boost Converters of a of a Hybrid Energy Storage System for Residential Microgrid Applications**   
Alejandro Laterra; Camilo A. Cortes; Wilmar Martinez

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Publication Title Z-A

- Informatization of Constructive English Learning Platform Based on Artificial Intelligence Algorithm**  
 Ting Li; Xuemei Zou  
 2022 International Conference on Frontiers of Artificial Intelligence and Machine Learning  
 Year: 2022 | Conference Paper | Publisher: IEEE  
 Abstract    [HTML](#)
- A review of Artificial Intelligence in Foreign Language Learning**  
 Despoina N. Gkountara; Ramjee Prasad  
 2022 25th International Symposium on Wireless Personal Multimedia Communications (WPMC)  
 Year: 2022 | Conference Paper | Publisher: IEEE  
 Cited by: Papers (2)  
 Abstract    [HTML](#)
- Effective E-Learning Practices by Machine Learning and Artificial Intelligence**  
 Arshi Naim; Sahar Mohammed Alshawaf; Praveen Kumar Malik; Rajesh Singh  
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**Publication Topics** v

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**Author** ^

Enter Author Name

- Mohsen Guizan (271)
- Licheng Jiao (270)
- Xuelong Li (225)
- Ling Shao (174)
- Wei Wang (169)

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- University of Chinese Academy of Sciences, Beijing, China (247)
- Peng Cheng Laboratory, Shenzhen, China (244)
- School of Artificial Intelligence, Beijing University of Posts and Telecommunications, Beijing, China (231)
- School of Artificial Intelligence and Automation, Huazhong University of Science and Technology, Wuhan, China (195)

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**Publication Title** ^

Enter Title

- IEEE Access (17,260)
- IEEE Transactions on Neural Networks and Learning Systems (1,131)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (860)
- IEEE Transactions on Image Processing (693)
- IEEE Internet of Things Journal (555)

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**Supplemental Items** v

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**Publication Topics** ^

Enter Topics

- Neural Network (22,583)
- Convolutional Neural Network (20,907)
- Deep Learning (20,552)
- Machine Learning (16,743)
- Learning Algorithms (11,085)

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- Publisher
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  - Datasets (247)
  - Code (37)
  - Video (25)
  - Immersive Articles (4)
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- Publication Topics
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**A Comprehensive Survey on Graph Neural Networks**

Zonghan Wu; Shirui Pan; Fengwen Chen; Guodong Long; Chengqi Zhang; Philip S. Yu

IEEE Transactions on Neural Networks and Learning Systems

Year: 2021 | Volume: 32, Issue: 1 | Journal Article | Publisher: IEEE

Cited by: [Papers \(3725\)](#)

Abstract

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## Media



### Description i

The supplemental material file includes the description of datasets, reported experimental results for node classification, and open-source implementations.

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**Reliable Tuberculosis Detection Using Chest X-Ray With Deep Learning, Segmentation and Visualization**

Tawsifur Rahman; Amith Khandakar; Khandaker Rejaul Islam; Khan Muhammad Tariqul Islam; Saad Muhammad E. H. Chowdhury

IEEE Access  
Year: 2020 | Volume: 8 | Journal  
Cited by: Papers (238)

▼ Abstract [HTML](#)

## Code & Datasets

[Code](#) [Dataset](#) ?

# Datasets

## TUBERCULOSIS (TB) CHEST X-RAY DATABASE



Citation Author(s): Tawsifur Rahman (Dhaka University), Amith Khandakar (Department of Electrical Engineering, Qatar University), Muhammad Enamul Hoque Chowdhury (Department of Electrical Engineering, Qatar University)  
Submitted by: Amith khandakar  
Last updated: Tue, 05/17/2022 - 22:17  
DOI: 10.21227/mps8-kb56  
Data Format: ZIP  
Research Article Link: Reliable Tuberculosis Detection Using Chest X-Ray With Deep Learning Segmentation and Visualization  
Links: A chest X-ray database of 3500 Tuberculosis patients' image and 3500 normal images were released. This database was created from  
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4173 Views  
Categories: Artificial Intelligence  
Keywords: TB CXR

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This article includes datasets hosted on IEEE DataPort™, a data repository created by IEEE to facilitate research reproducibility or another IEEE approved repository. Click the dataset name below to access it on the data repository

**Dataset Name:** [TUBERCULOSIS \(TB\) CHEST X-RAY DATABASE](#)



# 辅助材料-Code

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## Code & Datasets

Code Dataset

This article includes code hosted on Code Ocean, a computational reproducibility platform that allows users to view, modify, run, and download code included with IEEE Xplore articles. NOTE: A Code Ocean user account is required to access functionality in the capsule below.

Code Python Deep Learning for Cellular Traffic Prediction

Help Shape Code Ocean's Future! Please Take our Short User Survey Now! <https://forms.gle/c7mEap8w7pggPb568>

Deep Learning for Cellular Traffic Prediction (Chuanting Zhang) Edit Capsule

Files

- Core Files
- environment 285 B
- code 37.03 KB
  - dataloader 6.53 KB
  - models 5.83 KB
  - demo\_densenet.py 11.59 KB
  - LICENSE 1.04 KB
  - README.md 413 B
  - run 50 B
  - run\_prediction.py 11.57 KB
- data Manage Data Assets 23.13 MB
  - all\_data\_sliced.h5 22.73 MB
  - best.model 388.99 KB
  - LICENSE 18.88 KB
  - .gitignore 7 B
- results 59.92 KB
- Other Files

README.md

### Basic operation

This is the code for "Citywide Cellular Traffic Prediction Based on Densely Connected Convolutional Neural Networks".

Users can run "demo\_densenet.py" to train the model and the results will be generated and stored in the repository.

If you just want to see the prediction results without time to run the code, you can simply run "run\_prediction.py", and you will also obtain the results.

# 辅助材料-Video

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The screenshot shows a video player interface. At the top left, there is the IEEE Xplore Digital Library logo. To its right is the ISCAS 2020 logo, with the text '2020 IEEE International Symposium on Integrated Circuits and Systems, Virtual, October 10-12, 2020'. A small video thumbnail of a person is visible in the top right corner. The main content of the slide is the title 'Deep Reinforcement Learning for Analog Circuit Sizing' in a large, black, sans-serif font. Below the title is a large play button icon. Underneath the play button, the authors' names 'Zhenxin Zhao and Lihong Zhang' are listed, followed by their affiliation: 'Department of Electrical and Computer Engineering, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, St. John's, Canada'. In the bottom right corner of the slide, there is the Memorial University of Newfoundland logo and name. At the bottom left of the video player, there are standard navigation controls: a back arrow, a play/pause button, a volume icon, and a forward arrow.

# 辅助材料-Immersive Articles

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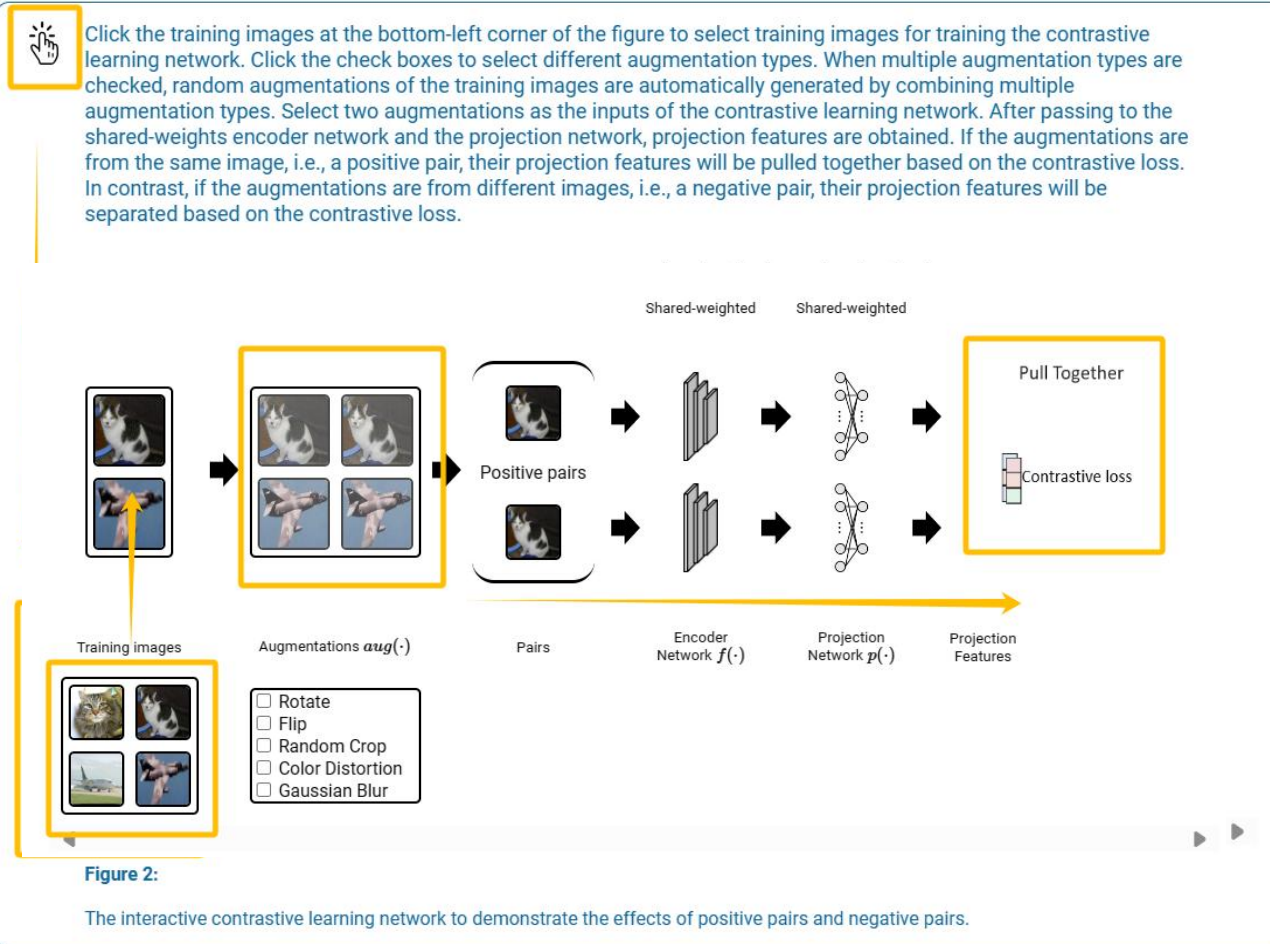
Immersive Articles (4)

Conference Location

Publication Topics

Standard Status

Standard Type



# 文摘页面

Journals & Magazines > IEEE Access > Volume: 5

## A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks

Publisher: IEEE

Chuanlong Yin; Yuefei Zhu; Jinlong

1080 Cites in Papers | 54315 Full Text Views

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Intrusion detection plays an important role in ensuring information security, and the key technology is to accurately identify various attacks in the network. In this paper, we explore how to model an intrusion detection system based on deep learning, and we propose a deep learning approach for intrusion detection using recurrent neural networks (RNN-IDS). Moreover, we study the performance of the model in binary classification and multiclass classification, and the number of neurons and different learning rate impacts on the performance of the proposed model. We compare it with those of J48, artificial neural network, random forest, support vector machine, and other machine learning methods proposed by previous researchers on the benchmark data set. The experimental results show that RNN-IDS is very suitable for modeling a classification model with high accuracy and that its

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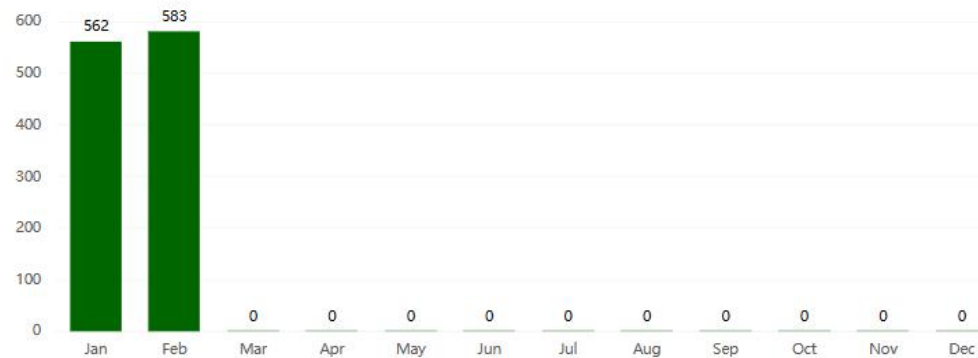


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Intrusion detection plays an important role in ensuring information security, and the key technology is to accurately identify various attacks in the network. In this paper, we explore how to model an intrusion detection system based on deep learning, and we propose a deep learning approach for intrusion detection using recurrent neural networks (RNN-IDS). Moreover, we study the performance of the model in binary classification and multiclass classification, and the number of neurons and different learning rate impacts on the performance of the proposed model. We compare it with those of J48, artificial neural network, random forest, support vector machine, and other machine learning methods proposed by previous researchers on the benchmark data set. The experimental results show that RNN-IDS is very suitable for modeling a classification model with high accuracy and that its performance is superior to that of traditional machine learning classification methods in both binary and multiclass classification. The RNN-IDS model improves the accuracy of the intrusion detection and provides a new research method for intrusion detection.

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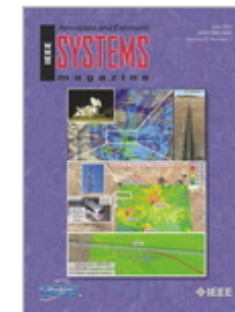
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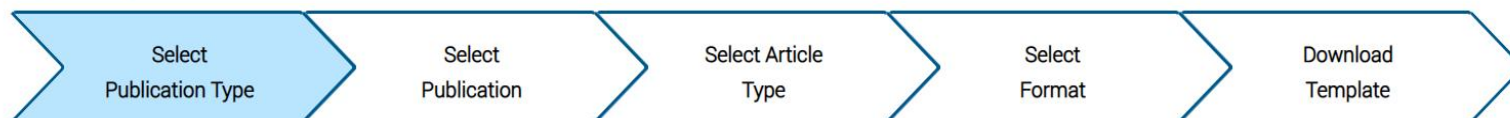
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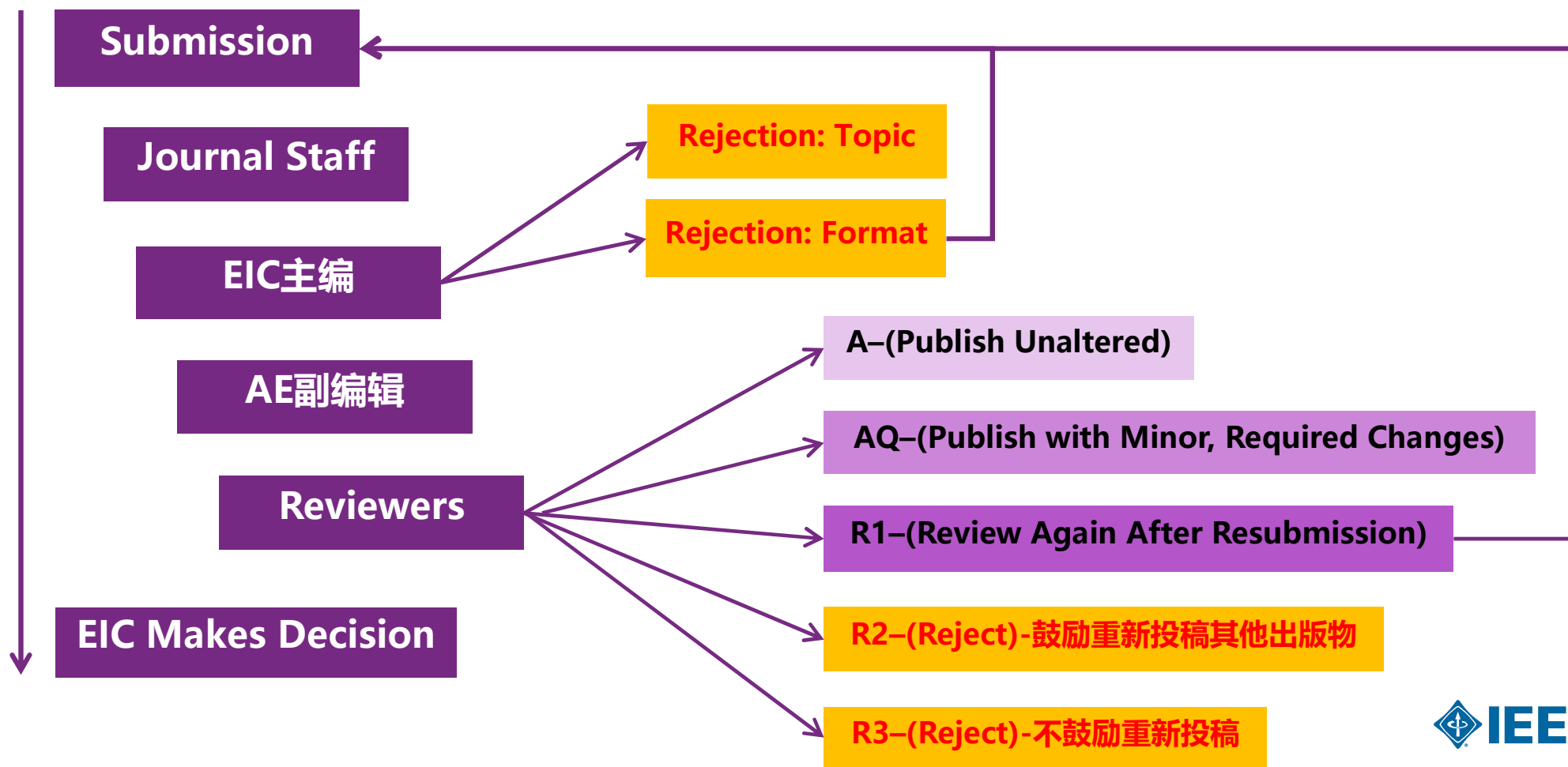
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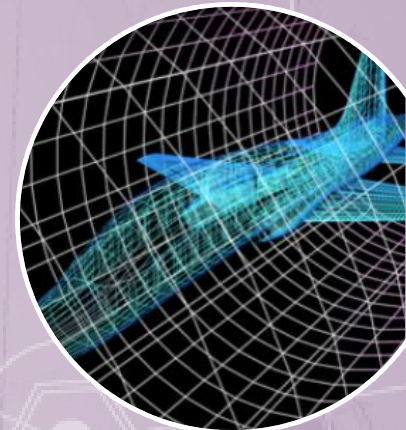
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