

IEEE *Xplore*® 全文電子資料庫

- IEEE 電子資源 簡介 及 操作使用指引 -

HINTON
INFORMATION SERVICES

涵堂資訊 獨家代理

IEEE Xplore® 全文電子資料庫

➤ 認識 IEEE Xplore® Digital Library

1) IEEE 學會

2) IEEE 電子資源

➤ IEEE Xplore® 平台功能

1) 瀏覽功能 **Browse**

2) 檢索功能 **Search**

3) 個人化設定 **My Settings**



IEEE 學會介紹



**The Institute of Electrical
and Electronics Engineers**

電機電子工程師學會

PS. IEEE, pronounced "Eye-triple-E"

IEEE 學會_簡介

140
YEARS

*Celebrating 140 Years of
Advancing Technology for Humanity*

- 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43萬人。
- 核心運作方式：
- IEEE會員、舉辦研討會、
- 制定標準、出版專業期刊、
- 會議論文、電子書及線上課程
- IEEE XPLORE 資料庫涵蓋：
- -收錄 660萬+文獻內容
- -每月超過 2400萬次下載量
- -每個月 超過 800萬的使用者



IEEE 智慧村
計劃 幫助
撒哈拉以南
的非洲村莊

smartvillage.ieee.org



IEEE 致力透過
務實易理解的
技術解決方案
幫助應對氣候
變遷的影響

climate-change.ieee.org

IEEE 運作方式

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43萬人



- IEEE Aerospace and Electronic Systems Society
- 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 Dielectric and Electrical Insulation Society
- IEEE Educational Activities Council
- IEEE Electron Devices Society
- IEEE Electron Packaging Society
- IEEE Electron Devices Society
- 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
- IEEE Power Electronics Society
- IEEE Power & Energy Society
- IEEE Product Safety Engineering Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society

39個專業分會

IEEE Societies

IEEE Xplore® 豐富的文獻量

6.6 Million

Documents in Fulltext PDF Format

Over 5,000

**Approved and Published
IEEE Standards**

Over 8,000

eBooks Titles

Over 210

**IEEE Journals, Magazines and
Transactions**

3.5 Million

IEEE Conference Proceedings

Over 500

eLearning Courses

More than 1.7 million

Contributing Authors

IEEE 涵蓋各個科技領域

More than just electrical engineering & computer science

- **Aerospace & Defense**
- **Artificial Intelligence**
- **Automotive Engineering**
- **Autonomous Vehicles**
- **Biomedical Engineering**
- **Biometrics**
- **Circuits & Systems**
- **Communications**
- **Computer Hardware**
- **Computer Software**
- **Cyber Security**
- **Electronics**
- **Energy**
- **Engineering**
- **Imaging**
- **Information Technology**
- **Internet of Things (IoT)**
- **Medical Devices**
- **Nanotechnology**
- **Optics**
- **Petroleum & Gas**
- **Power Electronics**
- **Power Systems**
- **Robotics & Automation**
- **Semiconductors**
- **Smart Grid**
- **Sustainable Energy**
- **Wireless Broadband**
- **and more**



IEEE 高品質文獻產生影響力

Refer to: Journal Citation Reports™ (JCR®) from Clarivate Analytics and CiteScore™

IEEE publishes:

- 21 of the top 25 journals in Electrical and Electronic Engineering
- 13 of the top 15 journals in Telecommunications
- 5 of the top 10 journals in Computer Science, Artificial Intelligence
- 5 of the top 10 journals in Imaging Science
- 4 of the top 5 journals in Automation and Control systems
- 3 of the top 5 journals in Computer Science, Cybernetics
- 3 of the top 5 journals in Computer Science, Hardware & Architecture
- 3 of the top 5 journals in Computer Science, Information Systems

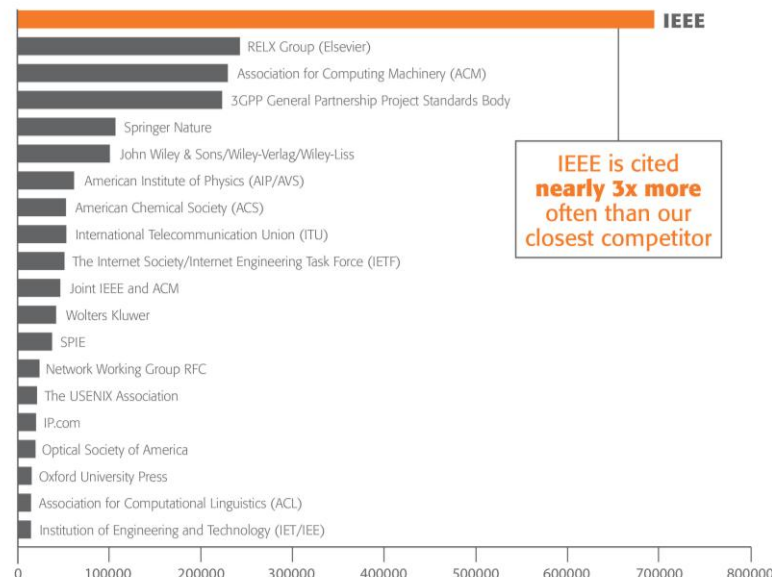
Source: Journal Citation Reports (Clarivate Analytics, 2024)

每年期刊引用報告 (JCR) 檢視學術研究期刊的影響力和影響。JCR展示了引用和被引用期刊之間的關係，提供了一種系統性、客觀的方法來評估全球領先期刊

IEEE 文獻推動專利技術發展

Number of U.S. Patent References from Top 50 Companies to Top 20 Publishers

- 自 1997 年以來，IEEE 在專利的引用上增長了 864% 以上。
- 科技文獻在專利中的重要性日益增加。
- IEEE 在 **人工智能**、**自動駕駛車輛** 和 **物聯網** 相關專利中佔有主導地位。



Source: 1790 Analytics LLC, Copyright 2024

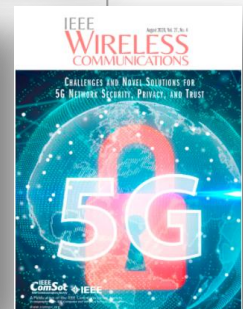
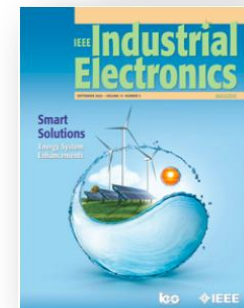
More information available at: www.ieee.org/patentcitations

IEEE 期刊在眾多領域具有領先優勢

IEEE Journals Score in Top Tier in latest Journal Citation Reports™

IEEE Publishes:

- 15 of the **Top 20** Journals in **Electrical and Electronic Engineering**
 - 10 of the **Top 10** Journals in **Telecommunications**
 - 3 of the **Top 5** Journals in **Automation & Control Systems**
 - 5 of the **Top 10** Journals in **Computer Science: Artificial Intelligence**
 - **The Top 3** Journals in **Computer Science: Cybernetics**
 - 3 of the **Top 5** Journals in **Computer Science: Hardware & Architecture**
 - 3 of the **Top 5** Journals in **Computer Science: Information Systems**
- Cited in Patents nearly 3x more than any Other Publisher.
 - Recent User studies Demo that Researchers rely on IEEE Xplore :
 - Increase productivity
 - Save time by not reinventing the wheel
 - Keep up-to-date on emerging technologies



For more information, visit www.ieee.org/citations and www.ieee.org/patentcitations

認識 IEEE 電子資源

IEEE XPLORE 連線網址 <https://ieeexplore.ieee.org/>



IEEE Electronic Library

收錄量最多

電機電子工程師學會(IEEE)



IEEE Xplore®收錄各家出版社以及學會文獻



IEEE XPLORE 收錄資料類型



NEW JOURNAL 2024 & 2025

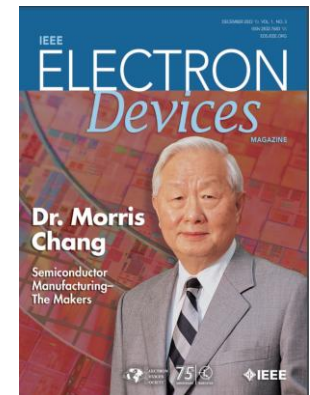
2025

- **IEEE *Electron Devices* Reviews**
- **IEEE *Energy Sustainability* Magazine**
- **IEEE Transactions on *Circuits and Systems* for *Artificial Intelligence***
- **IEEE Transactions on *Field Robotics***



2024

- **IEEE Transactions on Materials for *Electron Devices***
- **IEEE *Reliability* Magazine**
- **IEEE *Robotics and Automation Practice***



* MEMO : Please note this is a tentative list and is subject to change.

IEEE CONFERENCE 專業研討會議

在新興領域會議持續增長.引領專家學者技術突破.(2025)



- 2025 IEEE 25th International Conference on **Nanotechnology** (NANO)
- 2025 5th International Conference on **Intelligent Technologies** (CONIT)
- 2025 3rd World Conference on **Communication & Computing** (WCONF)
- 2025 IEEE 20th Conference on **Industrial Electronics and Applications** (ICIEA)
- 2025 IEEE 49th **Annual Computers, Software, and Applications** Conference (COMPSAC)
- 2025 IEEE International Conference on **Advanced Robotics and its Social Impacts** (ARSO)
- 2025 IEEE/ACM International Symposium on **Low Power Electronics and Design** (ISLPED)
- 2025 IEEE 21st International Conference on **Automation Science and Engineering** (CASE)
- 2025 International Conference on **Computer, Information and Telecommunication Systems** (CITS)
- 2025 IEEE International Symposium on **Electromagnetic Compatibility, Signal & Power Integrity** (EMC+SIPI)
- 2025 IEEE 12th International Conference on **Computational Cybernetics and Cyber-Medical Systems** (ICCC)
- 2025 IEEE International Conference on **Communications, Control, and Computing Technologies for Smart Grids** (SmartGridComm)
- 2025 Joint Conference of the **European Frequency and Time Forum** and IEEE International **Frequency Control Symposium** (EFTF/IFCS)
- 2025 IEEE 1st International Conference on **Application of Information Technologies in Engineering, Management and Science** (ICAI-TEMS)
- 2025 5th International Conference on **Electrical, Computer and Energy Technologies** (ICECET)

To Browse all IEEE Conferences, Please visit www.ieee.org/ieeexplore
https://conferences.ieee.org/conferences_events/conferences/search

HINTON
INFORMATION SERVICES



IEEE CONFERENCE 專業研討會議

在新興領域會議持續增長.引領專家學者技術突破.(2025)



- 2025 5th **Power System and Green Energy Conference (PSGEC)**
- 2025 IEEE International Conference on **AI and Data Analytics (ICAD)**
- 2025 IEEE 4th International Conference on **AI in Cybersecurity (ICAIC)**
- 2025 IEEE/ACM **Requirements Engineering for AI-powered SoftwarE (RAISE)**
- 2025 3rd **Cognitive Models and Artificial Intelligence Conference (AICCONF)**
- 2025 9th International Conference on **Robotics and Automation Sciences (ICRAS)**
- 2025 28th International Conference on **Electrical Machines and Systems (ICEMS)**
- 2025 IEEE 25th International Conference on **Bioinformatics and Bioengineering (BIBE)**
- 2025 27th International Conference on **Digital Signal Processing and its Applications (DSPA)**
- 2025 IEEE/ACM 4th International Conference on **AI Engineering – Software Engineering for AI (CAIN)**
- 2025 IEEE 4th International Conference on **Micro/Nano Sensors for AI, Healthcare, and Robotics (NSENS)**
- 2025 IEEE 15th International Conference on **Control System, Computing and Engineering (ICCSCE)**
- 2025 3rd International Conference on **Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA)**



To Browse all IEEE Conferences, Please visit www.ieee.org/ieeexplore
https://conferences.ieee.org/conferences_events/conferences/search

HINTON
INFORMATION SERVICES



IEEE CONFERENCE 專業研討會議

為新興技術與科技領域持續注入研究能量 (2024)

- 2024 IEEE Int'l Conf on Acoustics, Speech and **Signal Processing** (ICASSP)
- 2024 IEEE/SEMI Conf on Advanced **Semiconductor Manufacturing**
- 2024 IEEE Int'l Conf on **AI in Cybersecurity**
- 2024 IEEE Int'l Conf on **Applied Artificial Intelligence** (ICAPAI)
- 2024 IEEE Symp on **Applied Machine Intelligence and Informatics** (SAMII)
- 2024 IEEE Int'l Conf on **Big Data and Smart Computing (BIGCOMP)**
- 2024 IEEE Consumer **Communications & Networking** Conference (CCNC)
- 2024 Int'l Conf on Developments in **Renewable Energy Technology** (ICDRET)
- 2024 Int'l Conf on **Energy Conservation and Efficiency** (ICECE)
- 2024 IEEE **Green Technologies** Conference (GreenTech)
- 2024 **Optical Fiber Communications** Conference (OFC)
- 2024 Int'l Conf on **Networking and Communications** (ICNWC)
- 2024 Int'l Conf on **Smart Grid and Renewable Energy** (SGRE)
- 2024 Int'l Conf on **Mechatronics and Robotics** Engineering (ICMRE)
- 2024 IEEE Symp on **Semiconductor Thermal Measurement** (SEMI-THERM)
- 2024 IEEE Int'l Conf on **Unmanned Vehicle Systems** (UVS)
- 2024 IEEE Conf on **Virtual Reality and 3D User Interfaces** (VR)
- 2024 IEEE Innovative **Smart Grid** Technologies Conference (ISGT)
- 2024 IEEE Conf on **AI and Machine Learning Applications**: Healthcare and IoT



2024 Forum for Innovative Sustainable Transportation Systems, California, USA

Over 200,000 new papers posted in 2024!

To Browse all IEEE Conferences, Please visit www.ieee.org/ieeexplore
https://conferences.ieee.org/conferences_events/conferences/search

HINTON
INFORMATION SERVICES



IEEE 標準制定

IEEE SA STANDARDS
ASSOCIATION

- IEEE 標準協會 IEEE-SA
- IEEE 現有 42 個主持標準化工作的專業學會及委員會
- 標準制定 內容包含試驗方法、符號、定義以及測試方法等領域。
- 最新更新標準：
 - IEEE Std 3168-2024—IEEE Standard for Robustness Evaluation Test Methods for a Natural Language Processing Service That Uses Machine Learning
 - IEEE Std 1680.2-2024—IEEE Standard for Environmental Assessment of Imaging Equipment
 - IEEE P3130/D8, Jun 2024—IEEE Draft Standard for Security Requirements and Testing Methods of Operating Systems in Connected Vehicles
 - IEEE C37.252-2024—IEEE Guide for Testing Automatic Voltage Control Systems in Regional Power Grids
 - IEEE P3400/D4, Jul 2024—IEEE Draft Standard for Use of Inclusive Language in Technical Terminology and Communications
 - IEEE P1937.7/D3.3, Aug 2024—IEEE Draft Standard for the Unmanned Aerial Vehicle (UAV) Polarimetric Remote Sensing Method for Earth Observation Applications

IEEE STANDARDS 專業技術標準

技術標準規範推進產業互聯交流

Below are Some Examples of New Standards Published in 2024.2025 :

- IEEE 2413.3-2024 - IEEE Guide for **Hydropower Energy Internet of Things**
- IEEE 3201-2024 - IEEE Standard for **Blockchain Access Control**
- IEEE C37.90.2-2024 - IEEE Standard for **Relays, Relay Systems, and Control Devices** used for Protection and Control of **Electric Power Apparatus--Radiated Electromagnetic Interference Withstand Capability Requirements and Tests**
- IEEE 3158-2024 - IEEE Standard for **Trusted Data Matrix System Architecture**
- IEEE 3187-2024 - IEEE Guide for **Framework for Trustworthy Federated Machine Learning**
- IEEE 1695-2024 - IEEE Guide for **Understanding, Diagnosing, and Mitigating Stray and Contact Voltage**
- IEEE 63253-5713-8-2024 - IEC/IEEE International Standard - **Station Service Voltage Transformers (SSVT)**
- IEEE 3270.03-2024 - IEEE Standard Technical Requirements for **Digital Collection Services Based on Blockchain Technologies**

Many Leading eBooks Collections in IEEE Xplore

The IEEE Xplore Digital Library offers instant online access to more than 6,500 high-quality, technical eBook titles from leading publishers:

- **Artech House eBooks Library**
- **IEEE-Wiley eBooks Library**
- **Manning eBooks Library**
- **MIT Press eBooks Library-Computing & Engineering**
- **Now Publishers Foundations & Trends Technology eBooks Library**
- **Packt eBooks Library**
- **Princeton University Press eBooks Library**
- **River Publishers eBooks Library**
- **SAE eBooks Library**
- **Wiley Data and Cybersecurity eBooks Library**
- **Wiley Telecommunications eBooks Library**



IEEE BOOKS 專業電子書籍

收錄全球科技領先出版社電子書來拓展視野

- 收錄大量來自頂尖出版的專業圖書，其與 IEEE 堅持的宗旨相吻合，為工程師們提供高品質的科技研究資訊，以幫助相應技術的發展
- 專業電子圖書由各領域的專家所著，包括著名的科學家，獲獎作者及知名科研人員等，大多具備雄厚的 IEEE 學會背景（如 IEEE 會士、IEEE 編輯）
- 為工程師及科研人員提供工程、科技領域的資訊內容，如：電子電機、人工智慧、智慧電網、5G、機器人、網路安全、大數據、自動駕駛汽車等等

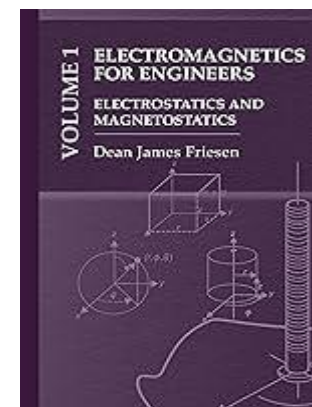
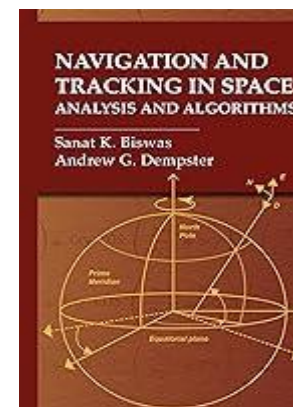
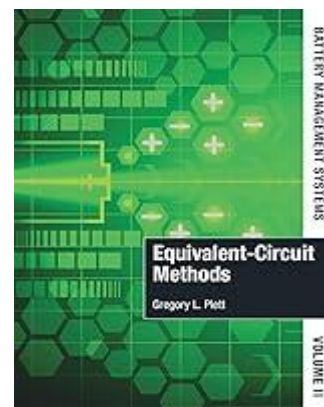
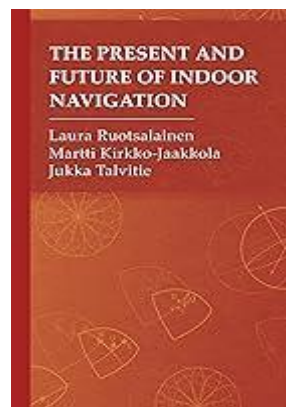
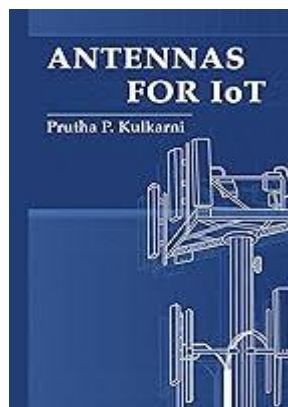
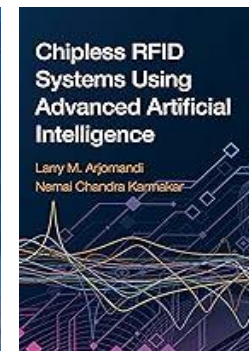
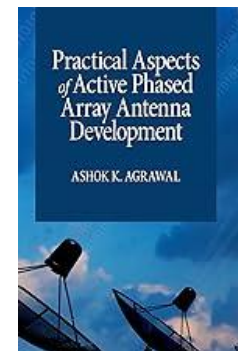
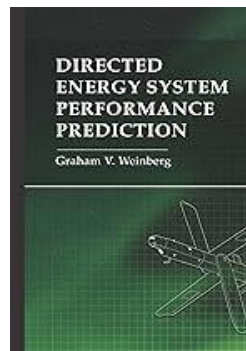
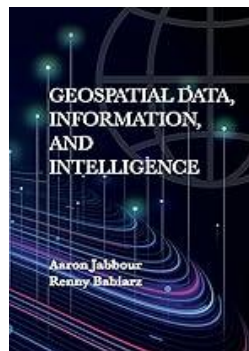


IEEE BOOKS 專業電子書籍

收錄全球科技領先出版社電子書來拓展視野

NEW in 2023 !!

Artech House eBooks Library



IEEE BOOKS 專業電子書籍

收錄全球科技領先出版社電子書來拓展視野

NEW in 2023 !!

Manning eBooks Library

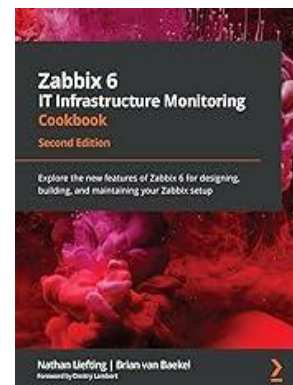
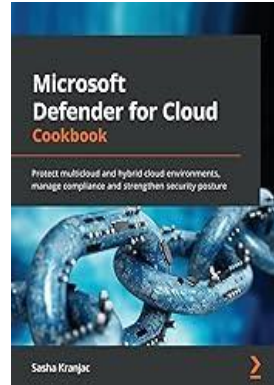
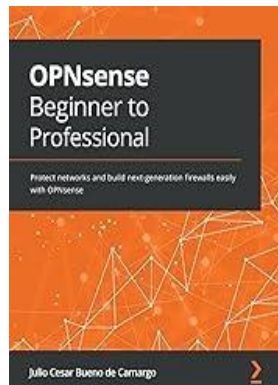
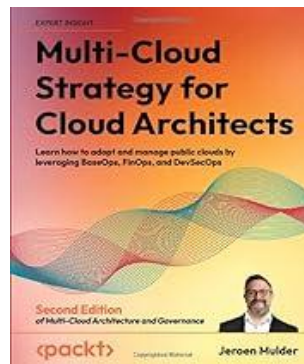
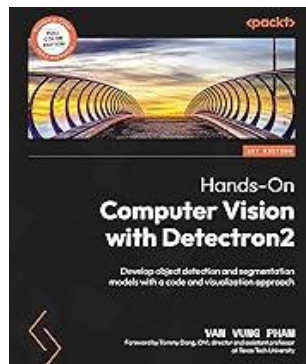


IEEE BOOKS 專業電子書籍

收錄全球科技領先出版社電子書來拓展視野

NEW in 2023 !!

Packt eBooks Library



IEEE COURSES 專業數位課程

提供多元學習及瞭解產業最新趨勢

依照不同的科技領域點選課程內容

Categories

[All Courses >](#)



Aerospace



Bioengineering



Career Development



Communications



Components, Circuits,
Devices & Systems



Computing



Emerging
Technologies



English for Technical
Professionals



Fields, Waves &
Electromagnetics



IEEE Standards



Photonics & Electro-
Optics



Power & Energy



Robotics



Signal Processing &
Analysis



Telecommunications



Transportation

IEEE COURSES 專業數位課程

提供多元學習及瞭解產業最新趨勢

最新科技相關線上課程



New!

Protecting Privacy in the Digital Age

New!

High Performance Computing

National Electrical Safety Code (NESC)
2023

New!

All About IoT Security

New!

IEEE 802.11ax: An Overview of High-Efficiency Wi-Fi

English for Technical Professionals

New!

Configuration Management: Building Secure & Reliable Software

5G Deployment

Smart Cities: Digital Transformation of Cities

Designing Blockchain Solutions

New!

Minigrids in Africa

IEEE Software and Systems Standards for Aerospace and Defense

IEEE COURSES 專業數位課程

提供多元學習及瞭解產業最新趨勢

2023 數位課程專案計畫



National Electrical Safety Code (NESC) 2023

NESC 技術標準規範由 IEEE 獨家發佈，每 5 年更新1次，使此技術標準規範與行業和技術的變化保持同步。NESC 為電力供應通信線路和相關設備的安裝、操作和維護期間公用事業工作人員和公眾的實際保護制定基本規則指南。此學習計畫將涵蓋最新版本 NESC重要更改。



High Performance Computing

此課程將深入介紹高性能計算 (HPC) 技術。該技術指經常使用多個處理器(作為單個機器的一部分)或多台電腦(作單個計算資源運行)計算系統和環境組織成一個集群。此課程介紹高性能計算的應用、市場前景和發展趨勢。



Smart Cities: Digital Transformation of Cities

課程旨在全面概述智慧城市技術的使用及其在未來研究領域的應用現狀、實施和挑戰。



Digital Privacy for Engineers

數位隱私：考慮在產品開發週期的每一步都至關重要。課程計畫將涵蓋區域法規通常涵蓋的核心資料隱私概念及可用於通過設計原則為每個專案注入隱私的最佳實踐。

IEEE COURSES 專業數位課程

IEEE 專業技術英語-掌握國際科技.工程技術的第一步

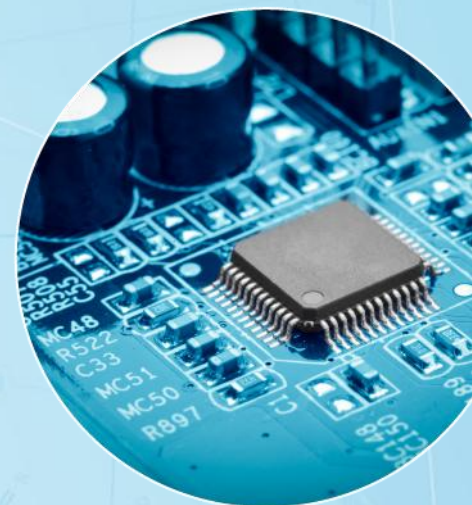
IEEE English for Technical Professionals :

IEEE 專業技術英語：

透過職業場景與技術交流場景來培養英語溝通技巧

- 2020年 推出聽.說.讀.寫. 共14個模組
- 2021年 增加口語回饋工具
- 跟隨動畫角色在職業場景探索專業技術概念
- 聽.說.讀.寫.全方位練習加強興趣，鞏固學習
- 階段性測驗與評估檢驗學習成果





IEEE XPLORE 連線網址

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

IEEE XPLORE 首頁總覽

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

IEEE Xplore

Browse ▾

My Settings ▾

Help ▾

Access provided by:
IEL - Sales

Sign Out

顯示學校英文名稱。
校內IP自動登入平台。

Donate | Cart | Create Account | Personal Sign In



Books
Conferences
Courses
Journals & Magazines
Standards
Recently Published
Popular

個人化功能

Advancing Technology for Humanity

SEARCH 6,630,166 ITEMS

All ▾



ADVANCED SEARCH ▸

TOP SEARCHES +

個人化功能-帳號申請.登入

IEEE Climate Change Collection

As the world's largest organization of technical professionals, IEEE is uniquely positioned to help organize the world's engineers, scientists, and technical professionals in addressing the causes, mitigating impacts, and adapting to climate change.

Go to the Collection

瀏覽功能:

- 依文獻類型
- 最受歡迎
- 最新出版

檢索工具列:

- 簡易檢索
- 進階檢索
- 檢索熱門文獻

IEEE XPLORE 首頁總覽

IEEE 最新消息

News and Updates



IEEE Publish Open Access with IEEE

Maximize visibility via IEEE Xplore
Rapid decisions
Rigorous peer-review
Mandate-compliant

[Learn More](#)

Publish Open Access with IEEE



Now Enrolling: IEEE | Rutgers Online Mini-MBA: AI

[LEARN MORE](#)



NEW: De Gruyter AI & Data Science eBooks Library

[LEARN MORE](#)



Integrating the Skies for 6G

[READ MORE](#)

IEEE 即將舉辦之研討會



Upcoming Conferences

16
MAR

2025 IEEE Applied Power Electronics Conference and Exposition (APEC)

[REGISTER](#) [ABOUT](#)

19
MAY

IEEE INFOCOM 2025 - IEEE Conference on Computer Communications

[REGISTER](#) [ABOUT](#)

19
OCT

2025 IEEE SENSORS

[CALL FOR PAPERS](#) [ABOUT](#)

IEEE XPLORE 首頁總覽

Featured Authors



Andreas F. Molisch
(USA)

THz Band Channel Measurements and
Statistical Modeling for Urban Microcellular
Environments

[Follow](#)

[MORE FROM ANDREAS F. MOLISCH](#)



Geoffrey Hinton
(CANADA)

CvxNet: Learnable Convex Decomposition

[Follow](#)

[MORE FROM GEOFFREY HINTON](#)



Kevin M. Lynch
(USA)

Human-Multirobot Collaborative Mobile
Manipulation: The Omnid Mocabots

[Follow](#)

[MORE FROM KEVIN M. LYNCH](#)

Featured Articles



**Deep Reinforcement Learning for
Smart Grid Operations: Algorithms,
Applications, and Prospects**

[READ MORE](#)

IEEE 精選文章



**Achieving Sustainability in the
Semiconductor Industry: The Impact of
Simulation and AI**

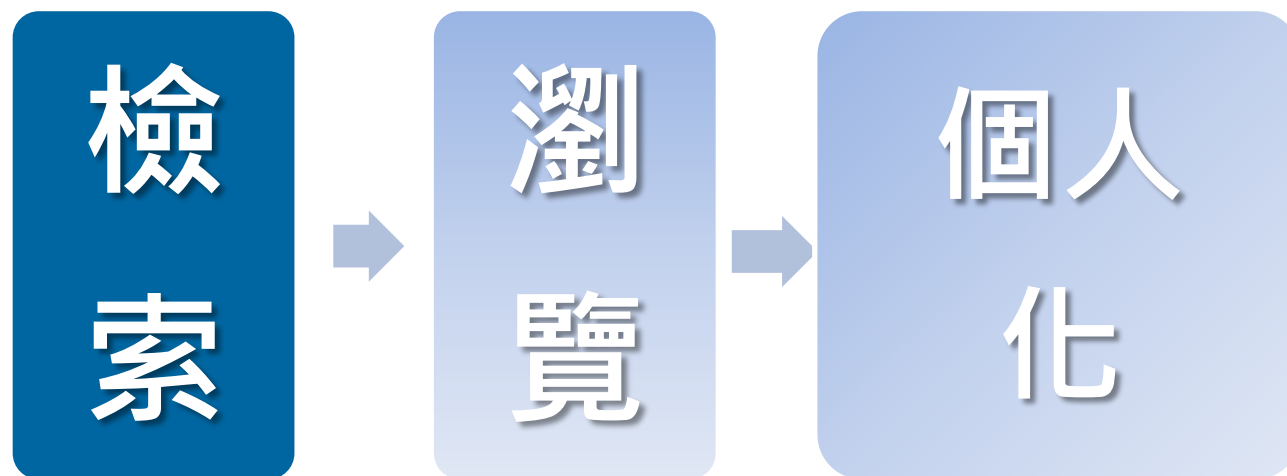
[READ MORE](#)



**A Wideband Reconfigurable Intelligent
Surface for 5G Millimeter-Wave
Applications**

[READ MORE](#)

IEEE *Xplore*® 平台功能



IEEE XPLORE 連線網址 <https://ieeexplore.ieee.org/>

SEARCH 檢索功能

[IEEE.org](#) | [IEEE Xplore](#) | [IEEE SA](#) | [IEEE Spectrum](#) | [More Sites](#)

[Donate](#) | [Cart](#) | [Create Account](#) | [Personal Sign In](#)

IEEE Xplore®

[Browse](#) ▼

[My Settings](#) ▼

[Help](#) ▼

Access provided by:
IEL - Sales

[Sign Out](#)



Advancing Technology for Humanity

SEARCH 6,630,166 ITEMS

All

基本檢索



ADVANCED SEARCH ▶

TOP SEARCHES +

IEEE Climate Change Collection

As the world's largest organization of technical professionals, IEEE is uniquely positioned to help organize the world's engineers, scientists, and technical professionals in addressing the causes, mitigating impacts, and adapting to climate change.

[Go to the Collection](#)

進階檢索 熱門檢索

HINTON
INFORMATION SERVICES



BASIC SEARCH 基本檢索

The screenshot shows the IEEE Xplore search page. At the top, there's a navigation bar with links to IEEE.org, IEEE Xplore, IEEE SA, IEEE Spectrum, and More Sites. On the right, there are links for Donate, Cart, Create Account, and Personal Sign In. Below this, the IEEE Xplore logo is on the left, and 'Access provided by: IEL - Sales' and 'Sign Out' are on the right. The main header area features the slogan 'Advancing Technology for Humanity' and a search bar showing '6,630,166 ITEMS'. A dropdown menu is open under the search bar, listing categories: All, Books, Conferences, Courses, Journals & Magazines, Standards, and Authors. To the right of the search bar, there are buttons for 'ADVANCED SEARCH' and 'TOP SEARCHES'. Below the search bar, there's a section titled 'IEEE Climate Change' with a description: 'uniquely positioned to help organize the world's engineers, mitigating impacts, and adapting to climate change.' Three red boxes with white text provide instructions on how to use the search bar: 1. Direct input of keywords and article names. 2. Use of quotation marks for more precise keyword input. 3. Input of Boolean logic instructions (AND, OR, NOT).

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

Donate | Cart | Create Account | Personal Sign In

IEEE Xplore® Browse ▾ My Settings ▾ Help ▾

Access provided by: IEL - Sales Sign Out

IEEE

Advancing Technology for Humanity

SEARCH 6,630,166 ITEMS

All ▾

- All
- Books
- Conferences
- Courses
- Journals & Magazines
- Standards
- Authors

ADVANCED SEARCH ▸ TOP SEARCHES +

1.直接輸入：關鍵字.文章名..
2. 關鍵字輸入引號更加精確..
3.輸入布林邏輯指令. AND、OR、NOT

IEEE Climate Change

基本檢索 可以透過.下拉式選單.
限縮條件：文獻類型 / 作者 / 引文.

uniquely positioned to help organize the world's engineers, mitigating impacts, and adapting to climate change.

Basic Search 基本檢索

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

IEEE Xplore® Browse ▾ My Settings ▾ Help ▾

Access provided by: IEL - Sales Sign Out

Donate | Cart | Create Account | Personal Sign In

IEEE

Search within results

依目前搜尋結果再輸入關鍵字搜尋

檢索列

Download PDFs Items Per Page ▾ Export Set Search Alerts Search History

Showing 1-25 of 200,680 results for Artificial Intelligence x

☐ Conferences (137,164) ☐ Journals (54,414) ☐ Magazines (4,291) ☐ Early Access Articles (2,698)

☐ Books (1,955) ☐ Standards (127)

快速篩選文獻類型

Publications You May Be Interested In:

Artificial Intelligence for IoT Cookbook: Over 70 recipes for building AI solutions for smart

The Promise of Artificial Intelligence: Reckoning and Judgment

IEEE Colloquium on Software Engineering and AI (Artificial Intelligence) (Digest No.087)

出版物推薦 (期刊、會議、電子圖書等)

Show

☒ All Results ☐ Subscribed Content ☐ Open Access Only

Year

☒ Range ☐ Single Year

1910 2024

Clear Apply

Author ▾

Affiliation ▾

☐ Select All on Page

☐ Quantum Circuits for Stabilizer Error Correcting Codes: A Tutorial

Arijit Mondal; Keshab K. Parhi

IEEE Circuits and Systems Magazine

Year: 2024 | Volume: 24, Issue: 1 | Magazine Article | Publisher: IEEE

Abstract

☐ Energy-Efficient Edge Learning via Joint Data Deepening-and-Prefetching

Sujin Kook; Won-Yong Shin; Seong-Lyun Kim; Seung-Woo Ko

IEEE Transactions on Wireless Communications

Year: 2024 | Early Access Article | Publisher: IEEE

Abstract

☐ PrivacyAsst: Safeguarding User Privacy in Tool-Using Large Language Mo

Sort By: Newest First ▾

Relevance

☒ Newest First

Oldest First

Most Cited [By Papers]

Most Cited [By Patents]

Most Popular

Publication Title A-Z

Publication Title Z-A

出版年份

作者

所屬單位

出版刊物

出版商

補充項目

研討會舉辦地點國家

標準狀態.標準種類.

出版品主題

尋找權威/熱門文章

- 出版時間新舊
- 文獻引用多寡
- 專利引用多寡
- 熱門下載文獻
- 開頭字母排序

多重檢索範圍總結：瞭解技術整體研發情況

更加精確的搜索及利用更多選項來擴大結果

作者

Author ^

☐ Nanning Zheng (425)

☐ Licheng Jiao (355)

☐ Wei Wang (345)

☐ Fei-Yue Wang (327)

☐ Mohsen Guizani (317)

[Show More...](#)

所屬單位

Affiliation ^

☐ School of Artificial Intelligence, University of Chinese Academy of Sciences, Beijing, China (1,308)

☐ School of Artificial Intelligence and Automation, Huazhong University of Science and Technology, Wuhan, China (569)

☐ Computer Science and Artificial Intelligence Laboratory, Massachusetts Institute of Technology, Cambridge, MA, USA (429)

☐ University of Chinese Academy of Sciences, Beijing, China (421)

☐ School of Artificial Intelligence, Beijing University of Posts and Telecommunications, Beijing, China (388)

[Show More...](#)

出版品標題

Publication Title ^

☐ IEEE Access (26,605)

☐ IEEE Transactions on Pattern Analysis and Machine Intelligence (2,136)

☐ 2011 2nd International Conference on Artificial Intelligence, Management Science and Electronic Commerce (AIMSEC) (1,874)

☐ IEEE Transactions on Image Processing (1,486)

☐ IEEE Transactions on Neural Networks and Learning Systems (1,173)

[Show More...](#)

出版商

Publisher ^

☐ IEEE (196,494)

☐ IET (1,448)

☐ MIT Press (715)

☐ River Publishers (654)

☐ VDE (389)

[Show More...](#)

多重檢索範圍總結：瞭解技術整體研發情況

更加精確的搜索及利用更多選項來擴大結果

輔助資料

Supplemental Items ^

- ☐ Media (4,757)
- ☐ Datasets (353)
- ☐ Code (65)
- ☐ Video (46)
- ☐ Immersive Articles (5)

研討會舉辦地點

Conference Location ^

Enter Location

- ☐ Chongqing, China (3,579)
- ☐ Beijing, China (2,407)
- ☐ Shanghai, China (2,385)
- ☐ Chengdu, China (2,183)
- ☐ Coimbatore, India (2,063)

[Show More...](#)

標準狀態

Standard Status ^

- ☐ Inactive (52)
- ☐ Active (50)
- ☐ Superseded (7)

標準種類

Standard Type ^

- ☐ Standard Docs (98)
- ☐ Whitepapers (9)
- ☐ Research Documents (2)

出版品主題

Publication Topics ^

Enter Topics

- ☐ Neural Network (32,870)
- ☐ Convolutional Neural Network (26,047)
- ☐ Deep Learning (21,282)
- ☐ Machine Learning (17,629)
- ☐ Artificial Neural Network (15,970)

[Show More...](#)

作者檢索與分析

Author

Enter Author Name

☐ Nanning Zheng (425)

☐ Licheng Jiao (355)

☐ Wei Wang (345)

☐ Fei-Yue Wang (327)

☐ Mohsen Guizani (317)

Show More...

快速定位 該領域專家

顯示發表文章數量最高的
前25位作者

機構檢索與分析

快速定位該領域的領先研究機構；深度瞭解
關注的研究機構，為申請學校和進入公司做準備

篩選.可檢索.機構名、地名和國家

Affiliation 前25名出版機構

Enter Affiliation

- ☐ School of Artificial Intelligence, University of Chinese Academy of Sciences, Beijing, China (1,308)
- ☐ School of Artificial Intelligence and Automation, Huazhong University of Science and Technology, Wuhan, China (569)
- ☐ Computer Science and Artificial Intelligence Laboratory, Massachusetts Institute of Technology, Cambridge, MA, USA (429)
- ☐ University of Chinese Academy of Sciences, Beijing, China (421)
- ☐ School of Artificial Intelligence, Beijing University of Posts and Telecommunications, Beijing, China (388)

Show More...

Affiliation

MIT

- ☐ MIT Computer Science and Artificial Intelligence Laboratory, Cambridge, MA, USA (103)
- ☐ MIT Artificial Intelligence Laboratory, Cambridge, MA, USA (92)
- ☐ Computer Science and Artificial Intelligence Laboratory, MIT, Cambridge, MA, USA (53)
- ☐ School of Engineering, RMIT University, Melbourne, VIC, Australia (40)
- ☐ MIT Computer Science and Artificial Intelligence Laboratory, USA (39)

Affiliation

JAPAN

- ☐ National Institute of Informatics, Tokyo, Japan (51)
- ☐ Department of Artificial Intelligence, Kyushu Institute of Technology, Fukuoka, Japan (39)
- ☐ Department of System Design Engineering, Keio University, Yokohama, Japan (38)
- ☐ Graduate School of Science and Engineering, Hosei University, Tokyo, Japan (37)
- ☐ Graduate School of Informatics, Kyoto University, Kyoto, Japan (34)
- ☐ RIKEN Center for Advanced Intelligence Project, RIKEN, Tokyo, Japan (30)

多重縮小檢索範圍

瞭解哪些期刊、會議可能是投稿對象

Publication Title ^

- ☐ IEEE Access (26,605)
- ☐ IEEE Transactions on Pattern Analysis and Machine Intelligence (2,136)
- ☐ 2011 2nd International Conference on Artificial Intelligence, Management Science and Electronic Commerce (AIMSEC) (1,874)
- ☐ IEEE Transactions on Image Processing (1,486)
- ☐ IEEE Transactions on Neural Networks and Learning Systems (1,173)

Show More...

Publisher ^

- ☐ IEEE (196,494)
- ☐ IET (1,448)
- ☐ MIT Press (715)
- ☐ River Publishers (654)
- ☐ VDE (389)

Show More...

Conference Location ^

- ☐ Chongqing, China (3,579)
- ☐ Beijing, China (2,407)
- ☐ Shanghai, China (2,385)
- ☐ Chengdu, China (2,183)
- ☐ Coimbatore, India (2,063)

Show More...

ADVANCED SEARCH 進階檢索

Advanced Search ?

Advanced Search Command Search Citation Search

欄位設定

Enter keywords and select fields. 輸入關鍵字

Search Term

in

All Metadata ?

AND

Search Term

in

All Metadata

↑

×

AND

Search Term

in

All Metadata

AND/OR/NOT

增加欄位

Publication Year

☐ Documents Added Between: 02/21/2024 and 02/28/2024

☐ Specify Year Range

1884

2024

出版年份設定

Preferences

Learn More

Data Fields

Search Examples

Search Operators

Search Tips

Wildcard Limits

檢索索引

檢索結果頁面：檢視檢索結果

Search within results



Download PDFs

Items Per Page ▾

Export

Set Search Alerts

Search History

Showing 1-25 of 298,039 results for **Machine Learning** x

☐ Conferences (236,138)

☐ Journals (53,979)

☐ Magazines (3,728)

☐ Early

☐ Books (2,045)

☐ Standards (62)

☐ Courses (17)

Sort By Relevance ▾

Relevance

Newest

Oldest

Most Cited By Papers

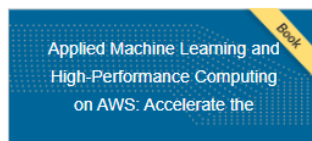
Most Cited By Patents

Most Popular

Publication Title A-Z

Publication Title Z-A

Publications You May Be Interested In:



Show

- ☒ All Results
- ☐ Subscribed Content ?
- ☐ Open Access Only

Year

- ☒ Range
- ☐ Single Year

1916

2024

Clear

Apply

☐ Select All on Page

調整排序：尋找權威/熱門文章

Sort By Relevance ▾

☐ **Alignment-Free Sequence Comparison: A Systematic Survey From a Machine Learning Perspective**

Katrin Sophie Bohnsack; Marika Kaden; Julia Abel; Thomas Villmann

IEEE/ACM Transactions on Computational Biology and Bioinformatics

Year: 2023 | Volume: 20, Issue: 1 | Journal Article | Publisher: IEEE

Cited by: Papers (6)

Abstract HTML PDF CC

- 被引用最多的高影響力文獻 (By Paper期刊 / By Patents專利)
- 被下載最多的熱門文獻

☐ **Multimodal Representation Learning: Advances, Trends and Challenges**

Su-Fang Zhang; Jun-Hai Zhai; Bo-Jun Xie; Yan Zhan; Xin Wang

2019 International Conference on Machine Learning and Cybernetics (ICMLC)



The IEEE Open Journal of Power Electronics has

HINTON
INFORMATION SERVICES

IEEE

檢索結果頁面：檢視檢索結果


[批量下載PDF全文](#)
[Download PDFs](#)
[Items Per Page ▾](#)
[Export](#)
[Set Search Alerts](#)
[Search History](#)

Showing 1-25 of 290,117 results for **Machine Learning** ×

▼ **Filters Applied:** [Conferences](#) × [Journals](#) ×

☐ Magazines (3,728)

☐ Early Access Articles

- 篩選資料類型 or
- 根據結果符合預期程度，擴大/縮小檢索

Show

- ☒ All Results
- ☐ Subscribed Content ?
- ☐ Open Access Only

Year

- ☒ Range
- ☐ Single Year

1916

2024

Clear

Apply

Author

Affiliation

Publication Title

Publisher

☐ Select All on Page

☐ **Alignment-Free Sequence Comparison A Systematic Survey From a Machine Learning Perspective**

Katrin Sophie Bohnsack; Marika Kaden; Julia Abel; Thomas Villmann

IEEE/ACM Transactions on Computational Biology and Bioinformatics

Year: 2023 | Volume: 20, Issue: 1 | Journal

Cited by: [Papers \(6\)](#)

▼ Abstract

[HTML](#)



☐ **Multimodal Representation Learning**

Su-Fang Zhang; Jun-Hai Zhai; Bo-Jun Xu

2019 International Conference on Machine Learning

Year: 2019 | Conference Paper | Published

Cited by: [Papers \(11\)](#)

▼ Abstract

[HTML](#)



☐ **Unsupervised Machine Learning**

Sandya Subramanian; Bryan Tseng; Richard

2021 43rd Annual International Conference on

Download PDFs

A maximum of 10 PDFs and 500MB total file size can be downloaded at a time.

Document Title

- ☒ Alignment-Free Sequence Comparison A Systematic Survey From a Machine Learning Perspective
- ☒ A Review on Machine Learning Styles in Computer Vision—Techniques and Future Directions
- ☒ A Review on Machine Learning for EEG Signal Processing in Bioengineering
- ☒ Credit Card Fraud Detection Using State-of-the-Art Machine Learning and Deep Learning Algorithms
- ☒ Energy Efficiency Modeling for Configuration-Dependent Machining via Machine Learning A Case Study
- ☒ Machine Learning Based Healthcare System for Investigating the Association Between Depression and

Download Citations

You have selected 6 citations for download.

Format

- ☒ Plain Text
- ☐ BibTeX
- ☐ RIS
- ☐ RefWorks

Include

- ☒ Citation Only
- ☐ Citation and Abstract

Cancel

Download

K. S. Bohnsack, M. Kaden, J. Abel and T. Villmann, "Alignment-Free Sequence Comparison: A Systematic Survey From a Machine Learning Perspective," in IEEE/ACM Transactions on Computational Biology and Bioinformatics, vol. 20, no. 1, pp. 119-135, 1 Jan.-Feb. 2023, doi: 10.1109/TCBB.2022.3140873.
keywords: {Machine learning;Machine learning algorithms;Task analysis;Bioinformatics;Hardware;Data analysis;Systematics;Alignment-free sequence comparison;machine learning;systematization;proximity measures;data transformation;feature generation},

S. V. Mahadevkar et al., "A Review on Machine Learning Styles in Computer Vision—Techniques and Future Directions," in IEEE Access, vol. 10, pp. 107293-107329, 2022, doi: 10.1109/ACCESS.2022.3209825.
keywords: {Machine learning;Computer vision;Object detection;Artificial intelligence;Machine learning algorithms;Image segmentation;Feature extraction;Machine learning techniques;computer vision;supervised learning;multi-task learning;object detection;artificial intelligence;image categorization;zero-shot learning},

M. -P. Hosseini, A. Hosseini and K. Ahi, "A Review on Machine Learning for EEG Signal Processing in Bioengineering," in IEEE Reviews in Biomedical Engineering, vol. 14, pp. 204-218, 2021, doi: 10.1109/RBME.2020.2969915.
keywords: {Electroencephalography;Machine learning;Support vector machines;Supervised learning;Brain modeling;Unsupervised learning;Mathematical model;Machine learning;eeg;survey;medical applications;signal processing;signal analysis},

檢索結果頁面：文章細節頁面

Journals & Magazines > IEEE Transactions on Pattern ... > Volume: 42 Issue: 2 ?

Focal Loss for Dense Object Detection

Publisher: IEEE

Cite This

PDF

Tsung-Yi Lin ; Priya Goyal ; Ross Girshick ; Kaiming He ; Piotr Dollár

3146

Cites in
Papers

21110

Full
Text Views

PDF下載

不可使用批量下載軟體下載

Focal Loss for Dense Object Detection

Tsung-Yi Lin; Priya Goyal; Ross Girshick; Kaiming He; Piotr Dollár

IEEE Transactions on Pattern Analysis and Machine Intelligence

Year: 2020 | Volume: 42, Issue: 2 | Journal Article | Publisher: IEEE

Cited by: Papers (3146)

Abstract

HTML

PDF

©

Abstract

Document Sections

1 Introduction

2 Related Work

HTML互動式線上閱讀

4 RetinaNet Detector

5 Experiments

Show Full Outline ▼

Authors

Figures

References

Citations

瞭解作者詳情



Priya Goyal
Facebook AI Research

Priya Goyal received the master's degree in mathematics at UC Berkeley in 2015. She is currently a research engineer with Facebook AI Research, where she focuses on object detection and object segmentation, high performance deep learning for accelerating neural networks. She co-recipient of the Student Paper Award at ICCV 2017.



Piotr Dollár

Also published under: Piotr Dollár, P. Dollár

Affiliation

Meta AI

Publication Topics

Object Detection, Semantic Segmentation, Block Type, Conv Layer, Convolutional Network, Design Space, Feature Pyramid, Feature Pyramid Network, Instance Segmentation, Language Model, Manual Design, Neural Architecture Search, Region Proposal Network, Self-supervised Learning, Training Time, Transfer Learning

Biography

Piotr Dollár received the PhD degree from UCSD under the guidance of Serge Belongie, in 2007 and has continued doing research in vision and learning since. He is a research scientist with Facebook AI Research (FAIR) with a focus on computer vision and machine learning. Prior, he spent three years with Microsoft Research (MSR). He helped cofound Anchovi Labs (acquired by Dropbox in 2012) and before that was a postdoc with the Computation Vision Lab at Caltech until 2011. (Based on document published on 23 July 2018).

Follow

Published in: IEEE Transactions on Pattern Analysis and Machine Intelligence

Page(s): 318 - 327

Date of Publication: 23 July 2018

Publisher: IEEE

More Like This

推薦文獻

Object Detection Using Deep Convolutional Neural Networks

2018 Chinese Automation Congress (CAC)

Published: 2018

Integrated Single Shot Multi-Box Detector and Efficient Pre-Trained Deep Convolutional Neural Network for Partially Occluded Face Recognition System

IEEE Access

Published: 2021

Show More

One-stage approach popularized by RetinaNet, one-stage detectors that are applied over a regular, dense feature map and are faster, simpler, but have trailed the accuracy of two-stage detectors.



Co-Authors:

Aaron Adcock
David J. Anderson
Ron Appel
Boris Babenko
S. Belongie

Show All Co-Authors (68)

檢索結果頁面：文章細節頁面

Journals & Magazines > IEEE Transactions on Pattern ... > Volume: 42 Issue: 2 ?

Focal Loss for Dense Object Detection

Publisher: IEEE

Cite This

PDF

Tsung-Yi Lin ; Priya Goyal ; Ross Girshick ; Kaiming

3146

Cites in
Papers

21110

Full
Text Views

Abstract

Document Sections

1 Introduction

2 Related Work

3 Focal Loss

獲取相關文獻的途徑

Show Full Outline ▼

Authors

Figures

References

Citations

- **References** : 參考文獻：獲取參考文獻全文，追溯經典文獻
- **Citations** : 被引用文獻：快速獲取引文全文，瞭解領域後續研究進展
- **Keywords** : 關鍵字：獲取該篇文獻重要關鍵重點可連結至相關研究文獻

References & Cited By

Download PDFs Export ?

Cites in Papers - IEEE (1271) | Other Publishers (1875)

Download PDFs Export ?

對參考文獻和被引用文獻進行多篇下載與引用文獻資訊匯出

References

1. R. Girshick, J. Donahue, T. Darrell and J. Malik, "Rich feature hierarchies for accurate object detection and semantic segmentation", *Proc. IEEEProc.*, pp. 5-17, 2014.

2. R. Girshick, "Fast R-CNN", *Proc. Int. Conf. Comput. Vis.*, 2015.

3. S. Ren, K. He, R. Girshick and J. Sun, "Faster R-CNN: Towards real-time object detection with region proposal networks", *Proc. Neural Inf. Process. Syst.*, 2015.

4. T.-Y. Lin, P. Dollár, R. Girshick, K. He, B. Hariharan and S. Belongie, "Feature pyramid network", *Proc. IEEEProc.*, 2017.

5. K. He, G. Gkioxari, P. Dollár and R. Girshick, "Mask R-CNN", *Proc. IEEEProc.*, 2017.

References in This Article

1. Rich feature hierarchies for accurate object detection and semantic segmentation

2. Fast R-CNN

3. Faster R-CNN: Towards real-time object detection with region proposal networks

4. Feature pyramid networks for object detection

5. Mask R-CNN

6. Microsoft COCO: Common objects in context

7. You only look once: Unified, real-time object detection

8. YOLO9000: Better, faster, stronger

9. SSD: Single shot multibox detector

10. DSSD: Deconvolutional single shot detector

Citations to this Article

1. "RCShip: A Dataset Dedicated to Ship Detection in Range-Compressed SAR Data"

2. "SASOD: Saliency-Aware Ship Object Detection in High-Resolution Optical Images"

3. "YOLO-OSD: Optimized Ship Detection and Localization in Multiresolution SAR Satellite Images Using a Hybrid Data-Model ..."

4. "MIOetr: Detection Transformer for Military Camouflaged Target Detection"

5. "BP-YOLO: A Real-Time Product Detection and Shipping Behaviors Recognition Model for Intelligent Unmanned Vending Machine ..."

6. "Leveraging Permutated Image Restoration for Improved Interpretation of Remote Sensing Images"

7. "MotionPerceiver: Real-Time Occupancy Forecasting for Embedded Systems"

8. "A Novel Tensor Decomposition-Based Efficient Detector for Low-Altitude Aerial Objects With Knowledge Distillation Scheme ..."

9. "Small Sample Target Recognition Based on Radar HRRP and SDAE-WAGAN"

10. "A Lightweight SAR Ship Detector Using End-to-End Image Preprocessing Network and Channel Feature Guided Spatial Pyramid Pooling"

檢索結果：文章細節：HTML 互動式線上閱覽

Authors

Figures

References

Citations

Keywords

Metrics

Footnotes

Figures

快速流覽圖表，並可快速跳轉至原文位置

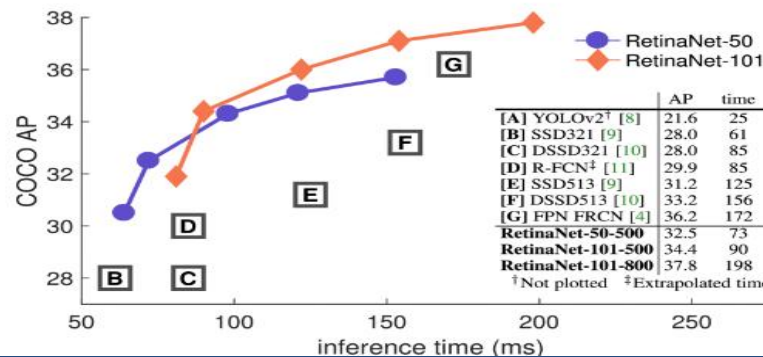


Fig. 2.

Speed (ms) versus detector output performance (COCO AP) for the [3] system from [4]. We show variants of RetinaNet with ResNet-50-FPN (blue circles) and ResNet-101-FPN (orange diamonds). RetinaNet forms an upper envelope of all current detectors, and an improved variant (not shown) achieves 40.8 AP. Details are given in Section 5.

[3] system from [4]. We show variants of RetinaNet with ResNet-50-FPN (blue circles) and ResNet-101-FPN

3. S. Ren, K. He, R. Girshick and J. Sun, "Faster R-CNN: Towards real-time object detection with region proposal networks", *Proc. Neural Inf. Process. Syst.*, 2015.

Show All References

快速定位參考文獻

檢索結果：輔助資料：多媒體資料、數據資料

Author

Affiliation

Publication Title

Publisher

Supplemental Items

- ☐ Media (28,420)
- ☐ Datasets (536)
- ☐ Video (343)
- ☐ Code (221)

☐ 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 (1817)

▶ Abstract HTML   Media

Media : 多媒體資料

Media



Description ⓘ

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

☐ 5G mmWave Cooperative Positioning and Mapping Using Multi-Model PHD Filter and Map Fusion

Hyowon Kim; Karl Granström; Lin Gao; Giorgio Battistelli; Sunwoo Kim; Henk Wymeersch

IEEE Transactions on Wireless Communications

Year: 2020 | Volume: 19, Issue: 6 | Journal Article

Cited by: Papers (52)

▶ Abstract HTML   Datasets

Code & Datasets

Code Dataset ⓘ

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

Dataset Name: 5G MMWAVE COOPERATIVE POSITIONING AND MAPPING USING MULTI-MODEL PHD FILTER AND MAP FUSION

Datasets : 數據資料

Datasets

5G MMWAVE COOPERATIVE POSITIONING AND MAPPING USING MULTI-MODEL PHD FILTER AND MAP FUSION



Citation Author(s)
Hyowon Kim @ Hanyang University
Karl Karl Granström @ Chalmers University of Technology
Lin Gao @ Universitat de València
Giorgio Battistelli @ Università degli Studi di Firenze
Sunwoo Kim @ Hanyang University
Henk Wymeersch @ Chalmers University of Technology

Submitted by:
Hyowon Kim
Last updated:
Tue, 05/17/2022 - 22:17
DOI:
10.21227/hyfe-fa96
Link to Paper:
5G mmWave Cooperative Positioning and Mapping using Multi-Model PHD Filter and Map Fusion

License:
Creative Commons Attribution 4.0

320 views
Categories:
Communications

ABSTRACT

The uploaded video files show the map PHD with the simulation scenarios for the cases: i) 5G SLAM (without map fusion); ii) 5G cooperative positioning and mapping. These results are obtained from the paper submitted to the IEEE Transactions on Wireless Communications.

Two vehicles are moving along with the circular road. Due to cooperation by map fusion, there is performance gain in detecting the SP which has the limited fuel.

DATASET FILES

- Videos of map PHD representing the VA and SP for i) without map fusion and ii) with map fusion. Map PHD.zip (16.87 MB)

LOG IN TO ACCESS DATASET FILES

HINTON
INFORMATION SERVICES



檢索結果：輔助資料：會議影音視頻、代碼資料

Author

☐ **Control as a Service - Intelligent Networking**

T. Seceleanu; N. Xiong; C. Seceleanu

2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC)

Year: 2021 | Conference Paper | Publisher: IEEE

▶ Abstract HTML    Video

Affiliation

Publication Title

Publisher

Supplemental Items

☐ Media (28,420)

☐ Datasets (536)

☐ Video (343)

☐ Code (221)

Video : 會議影音視頻




☐ **Multi-Task Federated Learning for Personalised Deep Neural Networks in Edge Computing**

Jed Mills; Jia Hu; Geyong Min

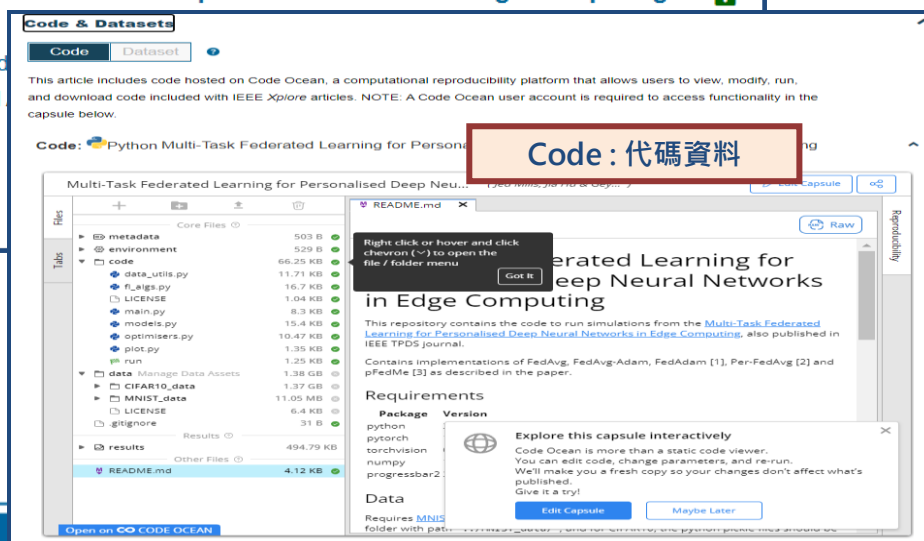
IEEE Transactions on Parallel and Distributed Systems

Year: 2022 | Volume: 33, Issue: 3 | Journal

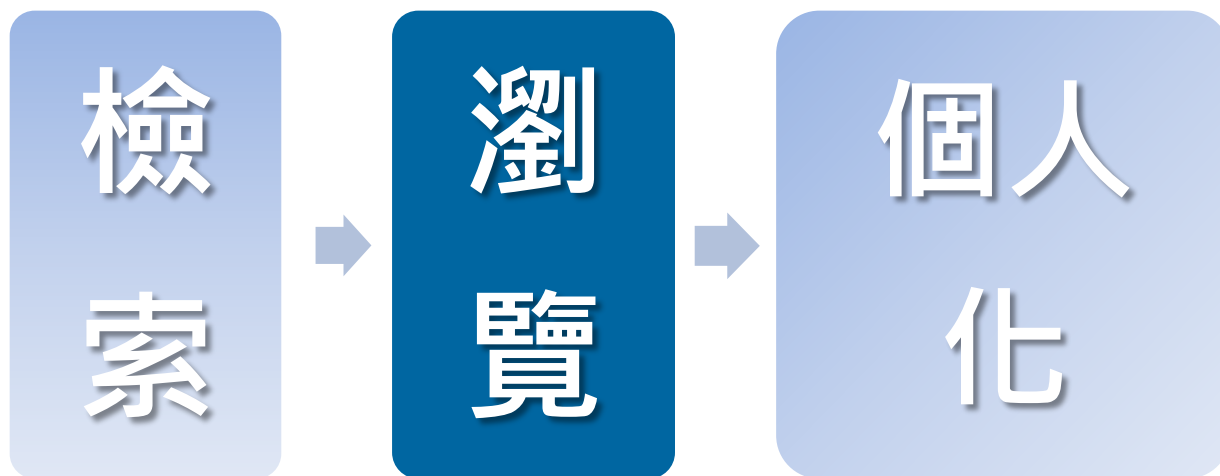
Cited by: Papers (27)

▶ Abstract HTML    Code

Code : 代碼資料



IEEE *Xplore*® 平台功能



IEEE XPLORE 連線網址 <https://ieeexplore.ieee.org/>

BROWSE 瀏覽功能

The screenshot shows the IEEE Xplore website interface. At the top, there are links for IEEE.org, IEEE Xplore, IEEE SA, IEEE Spectrum, and More Sites. On the right, there are links for Donate, Cart, Create Account, and Personal Sign In. The main navigation bar includes 'Browse' (with a dropdown arrow) and 'My Settings' (with a dropdown arrow). The 'Browse' dropdown menu is open, showing the following categories: Books, Conferences, Courses, Journals & Magazines, Standards, Recently Published, and Popular. The main content area features a large banner with the text 'Advancing Technology for Humanity' and a search bar displaying 'SEARCH 6,630,166 ITEMS'. Below the search bar are buttons for 'ADVANCED SEARCH' and 'TOP SEARCHES'. The IEEE logo is visible in the top right corner. A red-bordered box on the right side of the page contains two sections: '依文獻類型瀏覽' (Browse by Document Type) and '其他綜合瀏覽' (Other Comprehensive Browse), each with a list of document types.

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

Donate | Cart | Create Account | Personal Sign In

IEEE Xplore®

Browse ▾ My Settings ▾

Access provided by: IEL - Sales Sign Out

IEEE

Books

Conferences

Courses

Journals & Magazines

Standards

Recently Published

Popular

Advancing Technology for Humanity

SEARCH 6,630,166 ITEMS

ADVANCED SEARCH ▸ TOP SEARCHES +

IEEE Client Collection

As the world's largest organization of technical professionals, IEEE is uniquely positioned to help organize the world's engineers, scientists, and technical professionals in addressing the causes, mitigating impacts, and adapting to climate change.

Go to the Collection

- 依文獻類型瀏覽
 - 電子書
 - 會議論文
 - 線上課程
 - 期刊雜誌
 - 技術標準
- 其他綜合瀏覽
 - 最新出版文獻
 - 熱門下載文獻

BROWSE 瀏覽功能

IEEE XPLORE-Top Searches

	CNN	
Machine Learning	Internet of Things	Artificial Intelligence
Antenna	Deep Learning	Blockchain
6G	5G	PLL
UAV	LDO	ISSCC
YOLO	RIS	FPGA
ISAC	VLSI	JSSC
Cloud Computing	Cybersecurity	Federated Learning
Power Amplifier	Image Processing	Object Detection

BROWSE 瀏覽 : JOURNAL 期刊雜誌

Browse Journals & Magazines

期刊清單

By Title : 輸入關鍵字查詢刊名

By Topic : 依主題領域篩選，共有16種工程科技領域主題

Sign Up for Alerts | Title List

預先設定顯示筆數

Browse Titles ?

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0 - 9 | All

Showing 1-25 of 337

Show

- ☒ All Results
- ☐ Open Access Titles Only ?
- ☐ Titles with Some Open Access ?

☐ Show active titles only

Content Type

- ☐ Journals (421)
- ☐ Magazines (81)
- ☐ Newsletters (1)

Year

Browse:

All Topics

All Topics

- Aerospace
- Bioengineering
- Communication, Networking and Broadcast Technologies
- Components, Circuits, Devices and Systems
- Computing and Processing
- Engineered Materials, Dielectrics and Plasmas
- Engineering Profession
- Fields, Waves and Electromagnetics
- General Topics for Engineers
- Geoscience
- Nuclear Engineering
- Photonics and Electrooptics
- Power, Energy and Industry Applications
- Robotics and Control Systems
- Signal Processing and Analysis
- Transportation

IEEE Access

Publisher: IEEE Years: 2013 - Present Most Recent Issue

IEEE Aerospace and Electronic Systems Magazine

Publisher: IEEE Years: 1986 - Present Most Recent Issue

IEEE Transactions on Aerospace and Electronic Systems

Publisher: IEEE Years: 1965 - Present Most Recent Issue

Title History

IEEE Transactions on Affective Computing

Publisher: IEEE Years: 2010 - Present Most Recent Issue

SAIEE Africa Research Journal

左邊檢索欄可進階篩選
年份/出版社/主題

Publication Title A - Z

Items Per Page

Accelerate
Your Research!

IEEE Xplore[®]
Digital Library

TRY IT NOW

Need
Full-Text

access to IEEE Xplore
for your organization?

CONTACT IEEE TO SUBSCRIBE

BROWSE 瀏覽：期刊雜誌：資訊介紹 (Home)

Browse Journals & Magazines > Journal of Optical Communicati...

Journal of Optical Communications and Networking

熱門文獻

+ Add Title
To My Alerts

♥ Add to
My Favorites



Home

Popular

Current Issue

All Issues

About Journal

5
Impact
Factor

0.00454
Eigenfactor

0.87
Article
Influence
Score

10.2
CiteScore
Powered by Scopus



當期出版

所有期數

期刊詳情

分析期刊被引用狀況，以呈現其影響力的指標

Meet the Editor

Editor-in-Chief
Andrew Lord

Aims & Scope

發行主旨

The scope of the *Journal of Optical Communications and Networking* includes advances in the state-of-the-art of optical networking science, technology, and engineering. Both theoretical contributions (including new techniques, concepts, analyses, and economic studies) and practical contributions (including optical networking experiments, prototypes, and new applications) are encouraged. Subareas of interest include the architecture and design of optical networks, optical network survivability and security, software-defined optical networking, elastic optical networks, data and control plane advances, network management related innovation, and optical access networks. Enabling technologies and their applications are suitable topics only if the results are shown to directly impact optical networking beyond simple point-to-point networks.

Publication Details

Subjects

Need
Full-Text

access to IEEE Xplore
for your organization?

CONTACT IEEE TO SUBSCRIBE >



The IEEE Open Journal of the Industrial Electronics Society has received its first Journal Impact Factor™

Now accepted for
indexing by Clarivate

Learn More



IEEE

BROWSE 瀏覽：期刊雜誌：資訊介紹 (About Journal)

Browse Journals & Magazines > IEEE Transactions on Geoscienc...

IEEE Transactions on Geoscience and Remote Sensing

[Submit Manuscript](#)
[Add Title To My Alerts](#)
[Add to My Favorites](#)

[Home](#)
[Popular](#)
[Early Access](#)
[Current Volume](#)
[All Issues](#)
[About Journal](#)

8.2 Impact Factor	0.05491 Eigenfactor	1.545 Article Influence Score	10.9 CiteScore <small>Powered by Scopus</small>
-----------------------------	-------------------------------	---	--

訂閱期刊

追蹤.加我的最愛收藏

分析期刊被引用狀況，以呈現其影響力的指標

Author Resources

[Submission Guidelines](#)

[Submit Manuscript](#)

[Author Center](#)

[Become a Reviewer](#)

[Open Access Publishing Options](#)

Meet the Editor

Editor-in-Chief

Xiuping Jia

The University of New
South Wales at Canberra
Canberra, ACT 2600
Australia
Email: x.p.jia@ieee.org

Aims & Scope

IEEE Transactions on Geoscience and Remote Sensing (TGRS) focuses on the theory, concepts, and techniques of science and engineering as applied to sensing the land, oceans, atmosphere, and space; and the processing, interpretation, and dissemination of this information. This journal publishes technical papers disclosing new and significant research. The technical content of papers must be both new and significant. Experimental data must be complete and include sufficient description of experimental apparatus, methods, and relevant experimental conditions.

Publication Details

Subjects

Previous Titles

▼ ISSN Information

Electronic ISSN: 1558-0644

Print ISSN: 0196-2892

Frequency: 1

此出版品1年出版1次(年刊)



Need Full-Text

access to IEEE Xplore
for your organization?

CONTACT IEEE TO SUBSCRIBE >

>> The *IEEE Open Journal of the Industrial Electronics Society* has received its first Journal Impact Factor™

Now accepted for
indexing by Clarivate

[Learn More](#)



BROWSE 瀏覽：期刊雜誌：熱門文獻 (Popular)

Browse Journals & Magazines > IEEE Transactions on Geoscienc...

IEEE Transactions on Geoscience and Remote Sensing



Submit
Manuscript



Add Title
To My Alerts



Add to
My Favorites



Home

Popular

Early Access

Current Volume

All Issues

About Journal

Popular Documents - January 2024



Popular Article Feed

Includes the 50 most frequently accessed documents for this publication.

每月熱門 TOP 50 文獻

Download PDFs

Export

Email Selected Results

Showing 1-50 of 50

Refine

Date

January 2024



☐ Select All on Page

☐ Swin Transformer Embedding UNet for Remote Sensing Image Semantic Segmentation

Xin He; Yong Zhou; Jiaqi Zhao; Di Zhang; Rui Yao; Yong Xue

Publication Year: 2022 , Article Sequence Number: 4408715

Cited by: Papers (121)

▼ Abstract

HTML



點選標題查看更多資訊

☐ Remote Sensing Image Change Detection With Transformers

Hao Chen; Zipeng Qi; Zhenwei Shi

Publication Year: 2022 , Article Sequence Number: 5607514

Cited by: Papers (280)

▼ Abstract

HTML



- 摘要 Abstract 重點檢視
- 互動式 HTML 線上閱覽
- 直接下載 PDF 全文檔

☐ Multimodal Fusion Transformer for Remote Sensing Image Classification

Swalpa Kumar Roy; Ankur Deria; Danfeng Hong; Behnood Rasti; Antonio Plaza; Jocelyn Chanussot

Publication Year: 2023 , Article Sequence Number: 5515620

Cited by: Papers (52)



The IEEE Open Journal of Nanotechnology has received its first Journal Impact Factor™

Now accepted for indexing by Clarivate

Learn More



The IEEE Open Journal of Intelligent Transportation Systems has received its first Journal Impact Factor™

Now accepted for indexing by Clarivate

Learn More



BROWSE 瀏覽：期刊雜誌：單篇文獻 (Cite This)

Multimodal Fusion Transformer for Remote Sensing Image Classification

Publisher: IEEE

[Cite This](#)[PDF](#)Swalpa Kumar Roy ; Ankur Deria ; Danfeng Hong ; Behnood Rasti ; Antonio Plaza ; Jocelyn Chaussonot [All Authors](#)

52

Cites in
Papers

4795

Full
Text Views

教研普遍使用 Research Information Systems
Citation File 檔案，適用於 EndNote 軟體套件。



Abstract

Abstract:

[Cite This](#)[Plain Text](#)[BibTeX](#)[RIS](#)[Refworks](#)☐ Citation & Abstract[Copy](#)

S. K. Roy, A. Deria, D. Hong, B. Rasti, A. Plaza and J. Chaussonot, "Multimodal Fusion Transformer for Remote Sensing Image Classification," in *IEEE Transactions on Geoscience and Remote Sensing*, vol. 61, pp. 1-20, 2023, Art no. 5515620, doi: 10.1109/TGRS.2023.3286826. keywords: {Transformers;Laser radar;Feature extraction;Task analysis;Data mining;Data models;Convolution;Convolutional neural networks (CNNs);multihead cross-patch attention (mCrossPA);remote sensing (RS);vision transformer (ViT)}.

[Authors](#)[Figures](#)[References](#)[Citations](#)[Keywords](#)[Metrics](#)

University of Houston (UH), Trento, University of Southern Mississippi G
results of the proposed MFT model with other state-of-the-art transforme
models. The superior performance achieved by the proposed model is o
made available publicly at <https://github.com/AnkurDeria/MFT>.

Published in: [IEEE Transactions on Geoscience and Remote Sensing](#) (Volume: 61)

Article Sequence Number: 5515620

Date of Publication: 15 June 2023

DOI: 10.1109/TGRS.2023.3286826

Publisher: IEEE

[Cite This](#)[Plain Text](#)[BibTeX](#)[RIS](#)[Refworks](#)☐ Citation & Abstract[Copy](#) | [Download](#)

TY - JOUR
T1 - Multimodal Fusion Transformer for Remote Sensing Image Classification
T2 - IEEE Transactions on Geoscience and Remote Sensing
SP - 1
EP - 20
AU - S. K. Roy
AU - A. Deria
AU - D. Hong
AU - B. Rasti
AU - A. Plaza
AU - J. Chaussonot
PY - 2023
DO - 10.1109/TGRS.2023.3286826
JO - IEEE Transactions on Geoscience and Remote Sensing
IS -

[\[Text / Refworks / EndNote \]](#)[Show More](#)

The IEEE Open

BROWSE 瀏覽：期刊雜誌：單篇文獻 (PDF全文)

Multimodal Fusion Transformer for Remote Sensing Image Classification

Publisher: IEEE

[Cite This](#)[PDF](#)

全文PDF格式: 可下載或列印

Swalpa Kumar Roy ; Ankur Deria ; Danfeng Hong ; Behnood Rasti ; Antonio Plaza ; Jocelyn Chanussot [All Authors](#)

The IEEE Open Journal of the
Communications Society has received
its first Journal Impact Factor™

Now accepted for
indexing by Clarivate



52

Cites in
Papers

Abstract

Document S

I. Introduction

Contributi

II. Related W

III. Methodol

IV. Experime

V. Conclusio

Authors

Figures

References

Citations

Keywords

Metrics

Multimodal Fusion Transformer for Remote Sensing Image Classification

1 / 20

100%



1



2



3

IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, VOL. 61, 2023

5515620

Multimodal Fusion Transformer for Remote Sensing Image Classification

Swalpa Kumar Roy[✉], *Student Member, IEEE*, Ankur Deria[✉], Danfeng Hong[✉], *Senior Member, IEEE*, Behnood Rasti[✉], *Senior Member, IEEE*, Antonio Plaza[✉], *Fellow, IEEE*, and Jocelyn Chanussot[✉], *Fellow, IEEE*

Abstract—Vision transformers (ViTs) have been trending in image classification tasks due to their promising performance when compared with convolutional neural networks (CNNs). As a result, many researchers have tried to incorporate ViTs in hyperspectral image (HSI) classification tasks. To achieve satisfactory performance, close to that of CNNs, transformers need fewer parameters. ViTs and other similar transformers use an external classification (CLS) token, which is randomly initialized and often fails to generalize well, whereas other sources of multimodal datasets, such as light detection and ranging (LiDAR), offer the potential to improve these models by means of a CLS. In this article, we introduce a new multimodal fusion transformer (MFT) network, which comprises a multihead cross-patch attention (mCrossPA) for HSI land-cover classification. Our mCrossPA utilizes other sources of complementary information in addition to the HSI in the transformer encoder to achieve better generalization. The concept of tokenization is used to generate CLS and HSI patch tokens, helping to learn a distinctive representation in a reduced and hierarchical feature space. Extensive experiments are carried out on widely used benchmark datasets, i.e., the University of Houston (UH), Trento, University of Southern Mississippi Gulfpark (MUFL), and Augsburg. We compare the results of the proposed MFT model with other state-of-the-art transformers, classical CNNs, and conventional classifiers models. The superior performance achieved by the proposed model is due to the use of mCrossPA. The source code will be made available publicly at <https://github.com/AnkurDeria/MFT>.

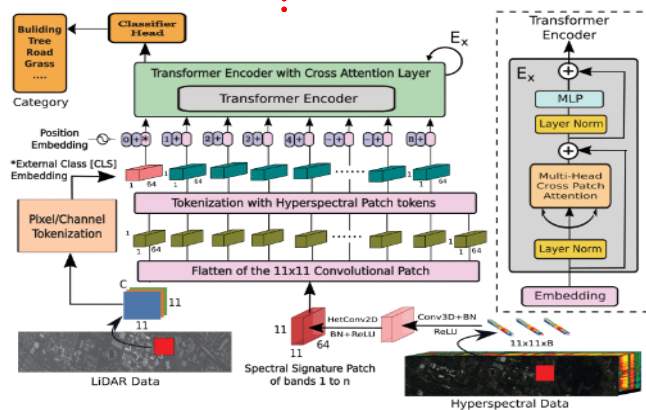
I. INTRODUCTION AND CONTRIBUTIONS

PHENOMENA, such as climate change or desertification, have led to a drastic growth in the popularity of Earth observation (EO) via remote sensing (RS). These tasks include (but are not limited to) land-cover classification [1], [2], [3], forestry [4], mineral exploration and mapping, object/target detection [5], [6], environmental monitoring [7], urban planning [8], biodiversity conservation, and disaster response and management. All of these tasks have been explored in the past few decades using data coming from single EO sensors, i.e., hyperspectral imaging (HSI) instruments, which can simultaneously provide rich spectral and spatial information [9]. However, such single-sensor data tend not sufficient to identify and recognize objects of interest.

Recent advances in RS technology have increased the availability of multisensor data, allowing for multiple representations of the same geographical region. Depending on the sensors' characteristics, the captured data can provide information with different characteristics for the same observed land-cover region. For example, synthetic-aperture radar (SAR) data provide the amplitude and phase geometrical information, while light detection and ranging (LiDAR)

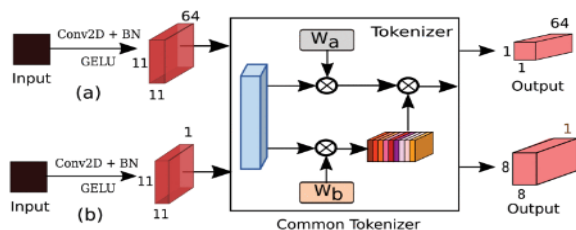
Figures

Fig. 1.

[» Show in Context](#)

Graphical representation of the proposed MET network for HSI and LiDAR data fusion

Fig. 2.

[» Show in Context](#)

References & Cited By

This view provides a high-level visual representation of references and citing documents for this article. View the full listing of [References](#) or [Citations](#).

Multimodal Fusion Transformer for Remote Sensing Image Classification

References in this Article

1. Hyperspectral image classification—Traditional to deep models: A survey for future prospects
2. GLC2000: A new approach to global land cover mapping from Earth observation data
3. Revisiting deep hyperspectral feature extraction networks via gradient centralized convolution
4. Multi-source land cover classification for forest fire management based on imaging spectrometry and LiDAR...
5. Fourier-based rotation-invariant feature boosting: An efficient framework for geospatial object detection
6. UIU-Net: U-Net in U-Net for infrared small object detection
7. Manual of Remote Sensing, Remote Sensing for Natural Resource Management and Environmental Monitoring
8. Classification of urban functional areas from remote sensing images and time-series user behavior data
9. Interpretable hyperspectral artificial intelligence: When nonconvex modeling meets hyperspectral remote s...
10. Multisource and multimodal data fusion in remote sensing: A comprehensive review of the state of the a...

Citations to this Article

1. "CMSE: Cross-Modal Semantic Enhancement Network for Classification of Hyperspectral and LiDAR Data"
2. "Multisource Feature Embedding and Interaction Fusion Network for Coastal Wetland Classification With Hyperspectral and ..."
3. "Texture-Aware Causal Feature Extraction Network for Multimodal Remote Sensing Data Classification"
4. "DelVMap: Completing Residential Roads in Maps Based on Couriers' Trajectories and Satellite Imagery"
5. "EXNet: (2+1)D Extreme Xception Net for Hyperspectral Image Classification"
6. "MVP: Meta Visual Prompt Tuning for Few-Shot Remote Sensing Image Scene Classification"
7. "Bootstrapping Interactive Image–Text Alignment for Remote Sensing Image Captioning"
8. "Deep Evidential Remote Sensing Landslide Image Classification With a New Divergence, Multiscale Saliency and an Improve..."
9. "Attention Graph Convolutional Network for Disjoint Hyperspectral Image Classification"
10. "Spatial-Gated Multilayer Perceptron for Land Use and Land Cover Mapping"

BROWSE 瀏覽 : CONFERENCE : 會議論文

Browse Conferences ?

By Title

By Topic

Search by keywords



Sign Up for Alerts | [Title List](#)

- 檢索欄位輸入關鍵字查詢
- 依主題領域BY TOPIC查詢

檢視所有會議論文清單

Browse Titles ?

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0 - 9 | All

Showing 1-25 of 9,547

Sort By

Publication Title A - Z

Items Per Page

Year

☒ Range

☐ Single Year

1936

2024

Clear

Apply

Publisher

Topic

Proceedings of the 1995 International Conference on 100 Years of Radio

Publisher: IET

2021 IEEE International Conference on Autonomous Systems (ICAS)

Publisher: IEEE

▼ Title History

21st Century Energy Needs Materials, Systems and Applications (ICTFCEN)

Publisher: IEEE

▼ Title History

IEE Colloquium on 3-D Imaging Techniques for Medicine

Publisher: IET

International Symposium on 3D Data Processing Visualization and Transmission

IEEE

Get Published in the
IEEE Transactions
on Machine Learning
in Communications
and Networking

Learn More

The IEEE Open Journal of Signal
Processing has received its first
Journal Impact Factor™

Now accepted for
indexing by Clarivate

Learn More

IEEE

BROWSE 瀏覽 : STANDARDS : 技術標準規範

Browse Standards ?

By Collection

By Number

By Topic

By ICS Code

Reading Room

IEEE GET Program™

IEEE Standards Dictionary

**2023 National Electrical Safety Code
and Handbook - Now Available!**



LEARN MORE



Search by keywords or by standards number



依標準編號範圍查詢 OR 依主題領域查詢

Sign Up for Alerts | Title List

Browse Standard Range ?

0 - 99 | 100 - 199 | 200 - 299 | 300 - 399 | 400 - 499 | 500 - 599 | 600 - 699 | 700 - 799 | 800 - 899 | 900 - 999 | 1000 - 1099 | 1100 - 1199 | 1200 - 1299 | 1300 - 1399 | 1400 - 1499 | 1500 - 1599 | 1600 - 1699 | 1700 - 1999 | 2000 - 2099 | 2100 - 2999 | 3000 -> | C | N | S | T | Y | All

Showing 1-25 of 2,451

Sort By

Standard Number

Items Per Page

Standard Status

- ☐ Inactive (6,618)
- ☐ Active (2,229)
- ☐ Superseded (1,979)

Year

☒ Range ☐ Single Year

1890

2024

Clear

Apply

1 - IEEE Standard General Principles for Temperature Limits in the Rating of Electric Equipment and for the Evaluation of Electrical Insulation

Publisher: IEEE

Version Details

1B - AIEE Report on Guiding Principles for the Specification of Service Conditions in Electrical Standards

Publisher: IEEE

Version Details

The IEEE Open Journal of
Nanotechnology has received its
first Journal Impact Factor™

Now accepted for
indexing by Clarivate

Learn More

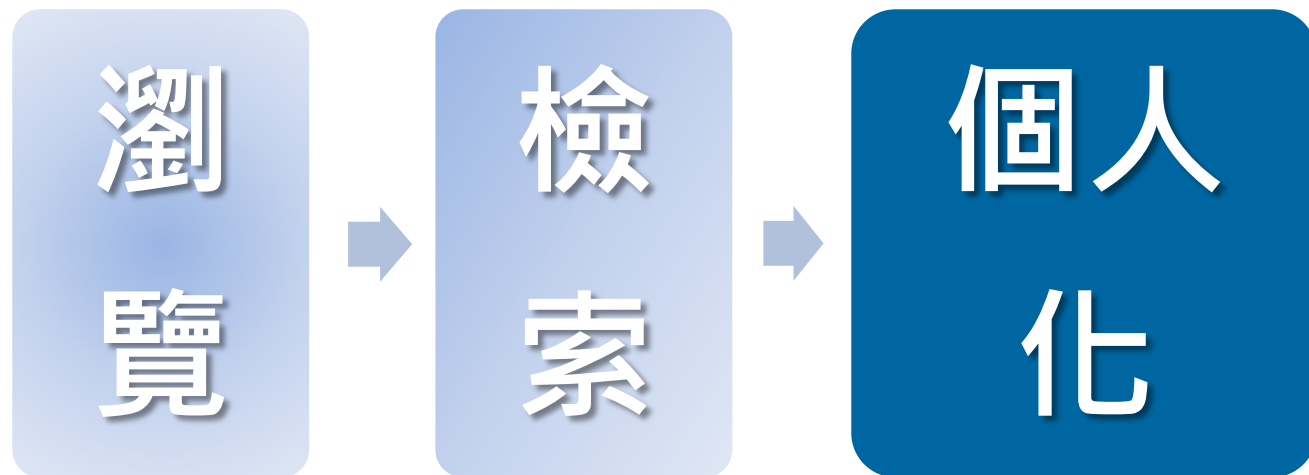


IEEE Standards

HINTON
INFORMATION SERVICES



IEEE *Xplore*® 平台功能



IEEE XPLORE 連線網址 <https://ieeexplore.ieee.org/>

MY SETTING 個人化設定

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

Donate | Cart | Create Account | Personal Sign In

Access provided by: IEL - Sales | Sign Out

IEEE Xplore®

Browse

My Settings ▼

Help ▼

- Alerts
- My Research Projects
- My Favorites
- MyXploreApp
- Preferences
- Purchase History
- Search History
- What can I access?

Advancing Technology for Humanity

SEARCH 6,630,166 ITEMS

- 提醒通知 (Alerts)
- 專案資料夾 (My Research Projects)
- 我的最愛 (My Favorites)
- 搜尋偏好設定 (Preferences)
- 訂閱紀錄 (Purchase History)
- 檢索歷史紀錄 (Search History)
- 學校可查看內容 (What can I access?)

IEEE Climate

As the world's largest of scientists, and technical

Go to the Collection

MY SETTING 個人化設定

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

Donate | Cart | Create Account | Personal Sign In

IEEE Xplore®

Browse ▾

My Settings ▾

Help ▾

Access provided by:
IEL - Sales

Sign Out



Personal Sign In : 個人化帳號申請 Create Account
申請完成後，就可以點選 Personal Sign In 登入個人帳號

Advancing Technology for Humanity

SEARCH 6,630,166 ITEMS

IEEE Xplore®
Digital Library



Create an IEEE Account

Already have an IEEE account? Sign In >>

* Required

* Given / First Name

Mid

輸入英文名與密碼等等相關資訊

* Email Address

* Password



* Confirm Password

Create Security Question



Security Answer

IEEE Climate Change

As the world's largest organization of tech
scientists, and technical professionals in

Go to the Collection

登入個人化設定的帳號為申請設定的 E-MAIL 信箱，不限制校園 E-MAIL 信箱

☐ I would like to receive information about
becoming an IEEE member.

Create Account

MY SETTING個人化設定 : Alerts提醒

檢索條件追蹤 **Set Search Alerts** 設定提醒通知

Search within results

[Download PDFs](#)

Items Per Page ▼

Export

[Set Search Alerts](#)

Search History

Showing 1-25 of 184,532 results for Robotics x

- ☒ Conferences (144,295) ☐ Journals (34,061) ☐ Magazines (3,905) ☐ Early Access Articles (1,434)
- ☐ Books (817) ☐ Standards (19) ☐ Courses (1)

Publications You May Be Interested In:

Set Search Alerts 提醒通知：追蹤最新關鍵研究文獻 (個人化設定管理)
設定檢索條件追蹤最新文獻。涵蓋所有資料類型 (期刊雜誌、會議論文、標準、電子書..)

Search within results

[Download PDFs](#)

Items Per Page ▾

Export

[Set Search Alerts](#)

Search History

Showing 1-25 of 76,482 results for VLSI x

- ☐ Conferences (50,342) ☐ Journals (25,102) ☐ Magazines (691) ☐ Books (195)
- ☐ Early Access Articles (144) ☐ Standards (6) ☐ Courses (2)

Publications You May Be Interested In:

[Hide Related Publications](#)[View More Journals and Conferences](#)

Show

- ☒ All Results
- ☐ Subscribed Content ?
- ☐ Open Access Only

Year

- Range

☐ Single Year

☐ Select All on Page

- **Monotonicity of Multi-Term Floating-Point Adders**

Mantas Mikaitis
IEEE Transactions on Computers

Year: 2024 | Early Access Article | Publisher: IEEE

Abstract

Sort By **Newest** ▾

» The *IEEE Open Journal of Signal Processing* has received its first Journal Impact Factor™

Now accepted for
indexing by Clarivate

[Learn More](#)

IEEE

**NATIONAL ELECTRICAL
SAFETY CODE® (NEC®)**

ONLINE SUBSCRIPTION OPTIONS

**2023 Edition
Now Available!**

LEARN MORE

 IEEEIEEE International
Magnetics Conference

MY SETTING 個人化設定 : Alerts 提醒

檢索條件追蹤 **Set Search Alerts** 設定提醒通知

Alerts ?

Manage your research quickly and efficiently with convenient email alerts. Alerts will be sent to virginia.chen@hintoninfo.com. You can change your alert email address in [Preferences](#).

Journals & Magazines

Conferences

Standards

Books

Citation

Saved Searches

Authors

Robotics Plan

You Searched For [Robotics Industry](#)



VLSI Project

You Searched For [VLSI Technology](#)



Autonomous Vehicles

You Searched For [Autonomous Vehicles](#)



Save Searches 提醒通知 : 追蹤最新關鍵研究文獻 (個人化設定管理)
訂閱檢索條件相關最新文獻通知提醒 : 期刊雜誌.會議論文.標準.電子書..

IEEE Authors:

**Increase
Your Research
Impact**

Add executable
code to your
research articles

UPLOAD YOUR CODE

MY SETTING 個人化設定 : My Research Projects 專案資料夾

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

Donate | Cart | Welcome Virginia Chen

IEEE Xplore® Browse ▾ My Settings ▾ Help ▾

Access provided by: IEL - Sales Sign Out

My Research Projects :
創建個人項目資料夾，分類管理文獻資料

ADVANCED SEARCH

Search within results 🔍

Showing 1-25 of 1,999 results for **Semiconductor Industry** × **Device Structure** ×

☐ Conferences (1,358) ☐ Journals (584) ☐ Early Access Articles (7) ☐ Books (6)

Show

- ☒ All Results
- ☐ Subscribed Content ?
- ☐ Open Access Only

Year

☒ Range ☐ Single Year

1962 2024

Clear Apply

Author

☐ Select All on Page

☒ **Overview of Dual-Active-Bridge Isolated Bidirectional Frequency-Link Power-Conversion System**
Biao Zhao; Qiang Song; Wenhua Liu; Yandong Sun
IEEE Transactions on Power Electronics
Year: 2014 | Volume: 29, Issue: 8 | Journal Article | Publisher:
Cited by: Papers (1354) | Patents (1)
Abstract HTML PDF CC

☒ **A Review of SiC Power Module Packaging Technologies: Challenges, Advances, and Emerging Issues**
Haksun Lee; Vanessa Smet; Rao Tummala
IEEE Journal of Emerging and Selected Topics in Power Electronics
Year: 2020 | Volume: 8, Issue: 1 | Journal Article | Publisher: IEEE
Cited by: Papers (199)
Abstract HTML PDF CC

Download PDFs Items Per Page ▾ Export Set Search Alerts Search

Results Citations To Collaborate My Research Projects X

You have selected 2 item(s) for export to My Research Projects.

Add to Project

Add to Project
2023 AI PLANS
Semiconductor ISSUE

Max 1,000 Characters 0 / 1,000

The IEEE Open Journal of the Industrial Electronics Society received its first Journal Impact

MY SETTING 個人化設定 : My Favorites 追蹤期刊

Browse Journals & Magazines > IEEE Transactions on Geoscienc... ?

IEEE Transactions on Geoscience and Remote Sensing



Submit
Manuscript



Add Title
To My Alerts



Add to
My Favorites



Home

Popular

Early Access

Current Volume

All Issues

About Journal

8.125

Impact
Factor

0.04471

Eigenfactor

1.5

Article
Influence
Score

12.2

CiteScore
Powered by Scopus



The articles in this journal are peer reviewed in accordance with the (sections 8.2.1.C & 8.2.2.A). Each published article was reviewed through the peer review process, where the identities of the reviewers are not disclosed to the authors. Articles will be screened for potential conflicts of interest.

Corresponding authors from low-income countries are encouraged to submit their articles for consideration.

[Read Full Aims & Scope](#)

Author Resources

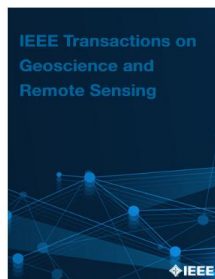
[Submission Guidelines](#)

[Submit Manuscript](#)

[Author Center](#)

My Favorites : 追蹤喜愛期刊 (個人化設定)
此收藏期刊封面.將顯示於 IEEE XPLORE 首頁.

My Favorite Journals & Magazines



IEEE Transactions on
Geoscience and
Remote Sensing
LATEST ARTICLES >

[VIEW ALL >](#)



IEEE Transactions on Intelligent
Transportation Systems
LATEST ARTICLES >



IEEE Journal of Biomedical and Health
Informatics
LATEST ARTICLES >



Need
Full-Text

access to IEEE Xplore
for your organization?

[REQUEST A FREE TRIAL >](#)

IEEE Authors:

**Increase
Your Research
Impact**

Add executable
code to your
research articles

[UPLOAD YOUR CODE](#)

MY SETTING 個人化設定 : Preference 偏好設定


Preferences

Search Options

Search

All Metadata

Full Text & Metadata

Full Text Only 

Search History Recording

On

Off

Results Layout

Title Only

Title & Citation

Title, Citation & Abstract

Results Per Page

50

Sort By

Newest First

Publisher

☒ ALL

☐ IEEE

☐ OUP

☐ MIT Press

☐ SMPTE

[Show More...](#)

Citation Download Options

Include

Citation Only

Citation & Abstract


Format

Plain Text

BibTex

RIS

RefWorks



Search History Recording

On

Off

QUIZS : Search IEL - IEEE Xplore

資料探勘： Data Mining	大數據分析： Big Data Analysis	虛擬製造： Virtual Manufacturing
人工智慧：(AI) Artificial Intelligence	物聯網：(IOT) Internet of Things	社群網路分析： Social Network Analysis
供應鏈管理：(SCM) Supply Chain Management	機器人： Robotics	3D列印技術： 3D Printing Technology
智慧型遠端監控： Smart Remote Monitoring	雲端運算： Cloud Computing	人因工程： Human Factors Engineering
電腦整合製造： Computer Integrated Manufacturing	自然語言處理： Natural Language Processing	智慧製造： Intelligent Manufacturing

QUIZS : Search IEL - IEEE Xplore

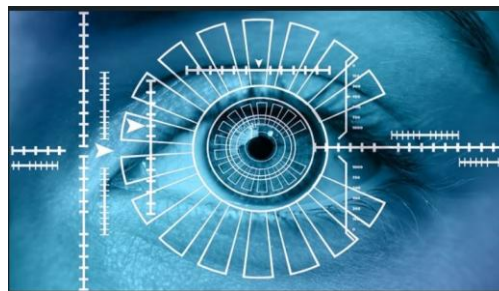
視訊處理 : Video processing	光纖網路 : Optical Networks	半導體裝置 : Semiconductor Devices
導航系統 : Navigation System	流體力學 : Fluid mechanics	綠色能源開發 : Green-Energy Exploration
光子學和電光學 : Photonics & Electro-Optics	智慧控制 Intelligent Control	生物識別系統 : Biometric Systems
醫療科技輔具 : Medical Assistive Tech	電力和電子 : Power Electronics	雷達感測技術 : Radar Sensing Technology
電動汽車技術 : Electric Vehicle Technology	無人飛機 : UAV 衛星定位系統 : GPS	衛星通訊 Satellite Communication

QUIZS : Search IEL - IEEE Xplore

紅外線技術： Infrared Technology	燃料電池：Fuel Cell	資訊安全： Data Security
嵌入式系統： Embedded System	智慧電網：Smart Grid	軌道電力系統： Railway Power System
有機光電元件： OLED, Solar Cell	馬達驅動： Motor Drive	光纖通訊： Fiber Optic Communication
天線工程 Antenna Engineering	無線射頻辨識：RFID	有機發光二極體： OLED：Light-Emitting Diode
集成電路 Integrated Circuit	區塊鏈： Blockchain	光纖雷射 / 光纖感測： Fiber laser / Fiber Sensing
雷達信號處理： Radar Signal Processing	傳感器系統： Sensor Systems	超大型積體電路：(VLSI) Very-Large-Scale integration

操作練習：SEARCH 檢索

1.請協助查詢.關於.專題研究計畫.
關鍵字：**Big Data** 與 **Cyber Security**
在 **Artificial Intelligence** 領域的應用.
檢視 最新出版的.與.最熱門的會議文獻.



2.篩選並檢視權威文獻：

※ 權威作者 Author

※ 權威研究機構 Affiliation

3. 快速批次下載

Download PDFs ▼ |

4. 檢索結果匯出/專案資料夾

5. 提醒通知

Export ▼ | Set Search Alerts |



操作練習：SEARCH 檢索

1. 關鍵字：查找 **AI**、**IOT**、**ISAC**、**LDO**、**Machine Learning**、**RIS**、**UAV**、**Object Detection**、**YOLO** 被專利/被期刊引用次數最高的文獻
2. 開啟摘要、匯出檢索結果
3. 全文 **HTML** 檢視.**PDF**下載

► Abstract **HTML**

Cite This

PDF

相關文獻瀏覽：

Authors

Figures



Citation Map

References

Citations

Keywords



操作練習：BROWSE 瀏覽

1. 依主題 **By TOPIC** 檢視：

- *  Bioengineering
 - * Computing and Processing
 - * Robotics and Control Systems
 - * Signal Processing and Analysis
 - * Power, Energy and Industry Applications
- (建議：選跟研究相關的 或 有興趣的主題)



2. 檢視：期刊基本資訊、影響係數 熱門文獻、當期出版/最新出版文獻

3. 訂閱追蹤：期刊提醒通知、最愛期刊 (提醒：需設定並完成個人化帳號的申請)



Add Title
To My Alerts



Remove from
My Favorites

立刻掃描加入涵堂資訊**LINE@**好友

資料庫最新消息及功能x 抽獎活動 x 系統異常回覆 一手掌握



Hinton Info

@qwr7188d

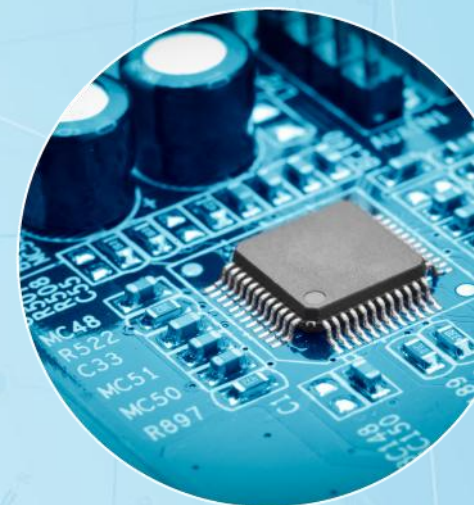
HINTON
INFORMATION SERVICES

如有問題，歡迎
透過此與我們聯絡



HINTON
INFORMATION SERVICES





涵堂資訊 陳佳慧 Virginia
TEL: (02) 2799-3110 ext. 216
FAX: (02) 2799-5560
EMAIL: service@hintoninfo.com

HINTON
INFORMATION SERVICES
基 泰 國 際 關 係 企 業

涵堂資訊有限公司
www.hintoninfo.com.tw

台北市11494內湖區瑞湖街103號(波昂科技中心)6樓之3

TEL :+886 2 27993110 FAX :+886 2 27995560

HINTON
INFORMATION SERVICES

