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學術講師: 鄭琳祺 Sylvia

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博士論文遭控AI虛構參考文獻
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AI可以讓你更快開始
但不能保證你找到的是正
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the **I**nstitute of **E**lectrical
and **E**lectronics **E**ngineers

(美國)電子電機工程師學會

IEEE, pronounced "Eye-triple-E"



- 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 Dielectrics and Electrical Insulation Society
- IEEE Education Society
- IEEE Electron Devices Society
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- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
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- IEEE Signal Processing Society
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- IEEE Solid-State Circuits Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
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IEEE Societies

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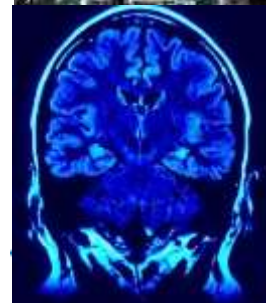
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- 3 of the top 5 journals in **Imaging Science**
- 3 of the top 5 journals in **Automation and Control systems**
- 3 of the top 5 journals in **Computer Science, Cybernetics**
- 3 of the top 5 journals in **Computer Science, Hardware & Architecture**

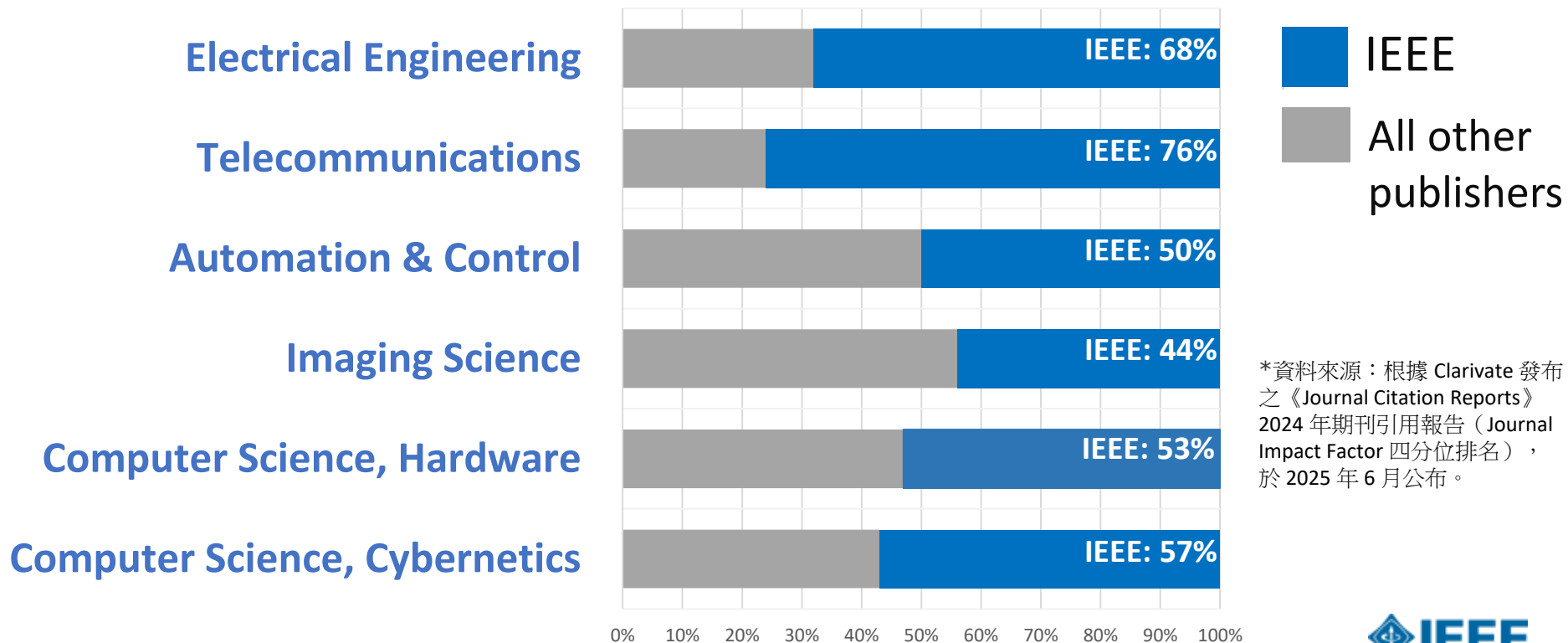


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IEEE as a percentage of top quartile publications across key fields of Interest*



*資料來源：根據 Clarivate 發布之《Journal Citation Reports》2024 年期刊引用報告（Journal Impact Factor 四分位排名），於 2025 年 6 月公布。



2025 & 2026 年新出版的刊物

New titles accessible via an IEEE subscription:

- *IEEE Sensors Magazine* (coming in 2026)
- *IEEE Journal on Wireless Power Technologies* (coming in 2026)
- *IEEE Transactions on Robot Learning* (coming in 2026)
- *IEEE Computational Intelligence Letters* (coming in 2026)
- *IEEE Robotics and Automation Practice* (launched in Late 2025/Early 2026)
- *IEEE Energy Sustainability Magazine* (launched in 2025)

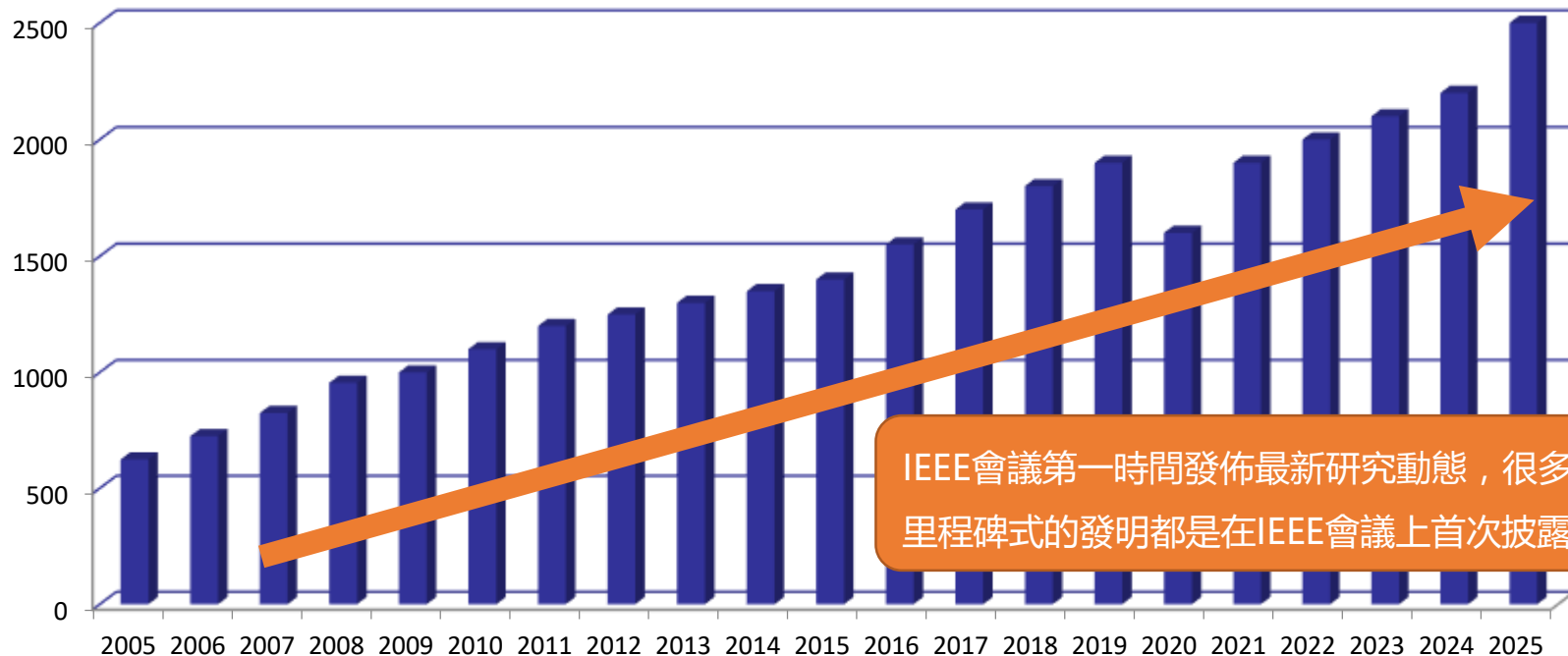
New Fully OA titles:

- *IEEE Journal of Selected Topics in Electromagnetics, Antennas and Propagation* (launched in 2025)



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

IEEE學術研討會逐年增加



IEEE會議第一時間發佈最新研究動態，很多里程碑式的發明都是在IEEE會議上首次披露。

IEEE技術標準協會

IEEE Standards Association (IEEE-SA)

Vision 願景

成為全球首選的高品質，市場驅動標準制訂平臺

Mission 使命

通過標準活動推動技術合作和經濟發展

IEEE標準涵蓋範圍：

- Electromagnetic Compatibility
- Green Technology
- Ethernet/Wi-Fi
- Medical Device Communications
- Nanotechnology
- Organic Components

IEEE 802



- Portable Battery Technology
- Power Electronics
- Power & Energy
- Radiation/Nuclear
- Reliability
- Transportation Technology

IEEE 技術標準

A Sample of Recently Added Standards:

- IEEE 1012-2024—IEEE Standard for System, Software, and Hardware Verification and Validation
- IEEE C57.12.44-2024—IEEE Standard Requirements for Secondary Network Protectors
- IEEE 2247.4—IEEE Recommended Practice for Ethically Aligned Design of Artificial Intelligence (AI) in Adaptive Instructional Systems
- IEEE Std 1680.2-2024—IEEE Standard for System, Software, and Hardware Verification and Validation for Systems in Connected Vehicles
- IEEE P3130/D8, Jun 2024—IEEE Draft Standard for System, Software, and Hardware Verification and Validation for Systems in Connected Vehicles
- IEEE 2413.3—IEEE Guide for System, Software, and Hardware Verification and Validation for Systems in Connected Vehicles
- IEEE 2418.5—IEEE Guide for System, Software, and Hardware Verification and Validation for Systems in Connected Vehicles
- IEEE 2840-2024—IEEE Standard for System, Software, and Hardware Verification and Validation for Storage Applications
- IEEE P2686/D9.4, Aug 2024—IEEE Draft Standard for System, Software, and Hardware Verification and Validation for Intelligent Systems
- IEEE Std 7009-2024—IEEE Standard for System, Software, and Hardware Verification and Validation for Intelligent Systems
- IEEE Std 7014-2024—IEEE Standard for System, Software, and Hardware Verification and Validation for Intelligent Systems
- IEEE P1857.11/D3, Jun 2024—IEEE Draft Standard for Neural Network-Based Image Coding
- IEEE P3345/D7.1, Jun 2024—IEEE Draft Guide for Terminology and Classification of Electric Vehicle Charging Robots
- IEEE 2894-2024—IEEE Guide for an Architectural Framework for Explainable Artificial Intelligence
- IEEE 2861.3-2023—IEEE Standard for Haptic Interface Enhancement for Mobile Gaming

Draft : 尚未正式核准發布

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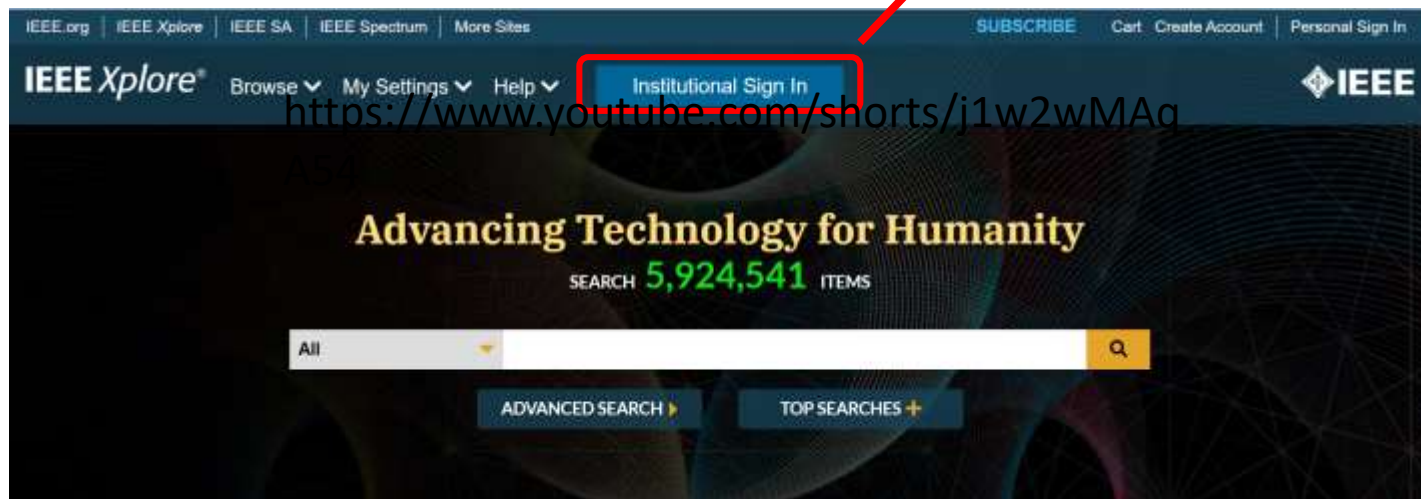
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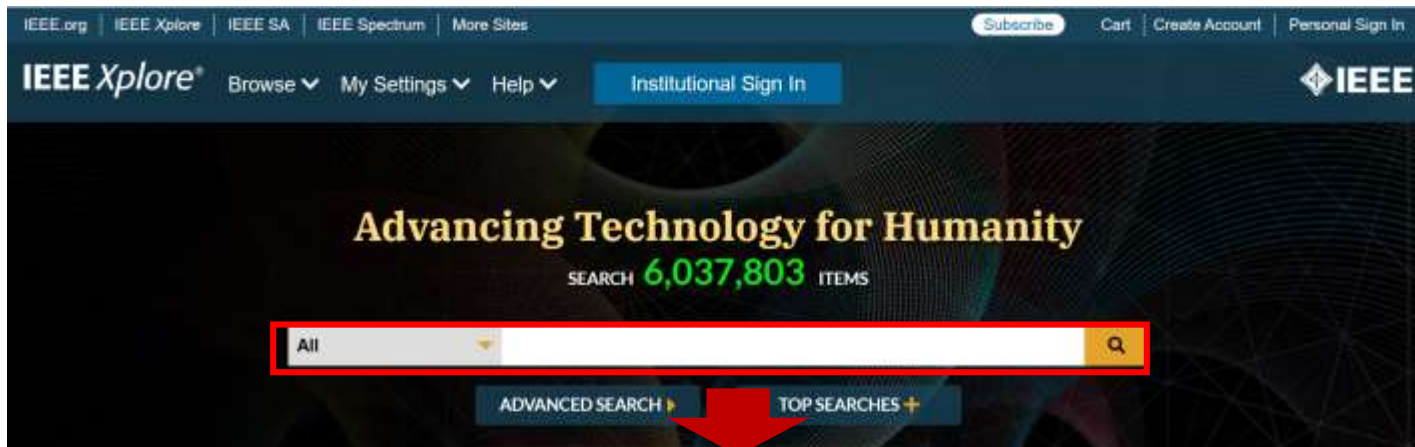
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2. 檢索詞之間的默認關係：AND ie. smart grid= smart AND grid
3. 精確檢索使用雙引號： ie. "Power Consumption"
4. 自動獲取詞根：pluralized nouns, verb tenses, and British/American spelling variations
5. 模糊檢索使用*和? ie. robot* (**robot**、**robots**、**robotic**、**robotics**)
 ie sens?r (**sensor**、**senser**)
6. 檢索詞不區分大小寫，檢索運算元(AND. OR. NOT) 全部大寫

文獻檢索：robot vs robot*

Showing 1-25 of 253,974 results for **robot***

- Conferences (213,163)
- Journals (34,190)
- Magazines (4,052)
- Books (1,297)
- Early Access Articles (1,222)
- Standards (41)
- Courses (9)

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- A study on the risk investigation of robot**
Gi-En Yu; Seung-Taek Hong; Ki-yeon Lee
2017 17th International Conference on Information and Communication Technology Robotics (ICT-ROBOT)
Year: 2017 | Conference Paper | Publisher: IEEE
Cited by: Papers (3)
Abstract HTML PDF CC
- Vision-based Waypoints Trajectory Optimization for Robot**
Yao Hu; Liwei Shi; Shuzhang Guo; Huihui Wang
2019 IEEE International Conference on Robotics and Automation (ICRA)
Year: 2019 | Conference Paper | Publisher: IEEE
Abstract HTML PDF CC

Author

Affiliation

Publication Title

Publisher

Showing 1-25 of 338,342 results for **robot***

- Conferences (274,652)
- Journals (53,170)
- Magazines (6,219)
- Early Access Articles (1,222)
- Books (2,005)
- Standards (51)
- Courses (12)

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- Software Framework for an Intelligent Mobile Manipulation Robot**
Seung-Joon Yi
2018 International Conference on Information and Communication Technology Robotics (ICT-ROBOT)
Year: 2018 | Conference Paper | Publisher: IEEE
Cited by: Papers (3)
Abstract HTML PDF CC
- I'm trying to think, but nothing happens! [robotics]**
B.R. Carlisle
Proceedings of 1995 IEEE International Conference on Robotics and Automation
Year: 1995 | Conference Paper | Publisher: IEEE
Abstract PDF CC
- Two mobile robots sharing topographical knowledge generated by the region-feature neural network**
J.A. Janet; D.S. Schudel; M.W. White; A.G. England; J.C. Sutton; E. Grant; W.E. Snyder
Proceedings of International Conference on Robotics and Automation
Year: 1997 | Conference Paper | Publisher: IEEE

Author

Affiliation

Publication Title

Publisher

文獻檢索：Power Consumption vs "Power Consumption"

Showing 1-25 of 191,103 results for **Power Consumption** ×

- Conferences (148,095)
- Journals (39,050)
- Magazines (2,574)
- Early Access Articles (768)
- Books (453)
- Standards (158)
- Courses (5)

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- Research on operation strategy of grid voltage stability and clean energy**
Yazhou Lv; Qiang Zhou; Zhaohui Qie; Pen
2021 International Conference on Power
Year: 2021 | Conference Paper | Publish
Cited by: Papers (1)
- Research on the application of er**
in the construction of pumped st
Fanqi Huang; Hao Zhang; Yikai Li; Yumin
2023 8th International Conference on Po
Year: 2023 | Conference Paper | Publish

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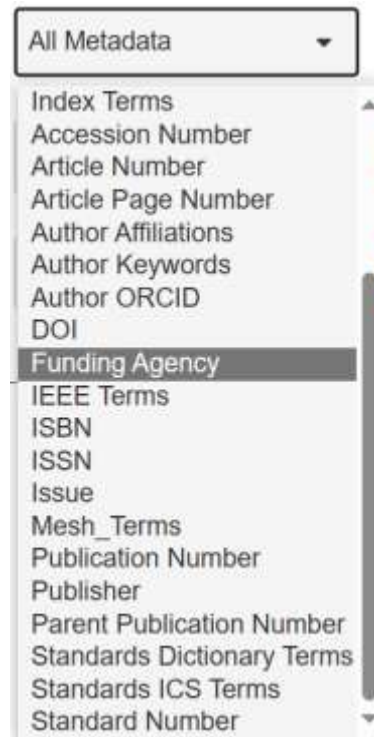
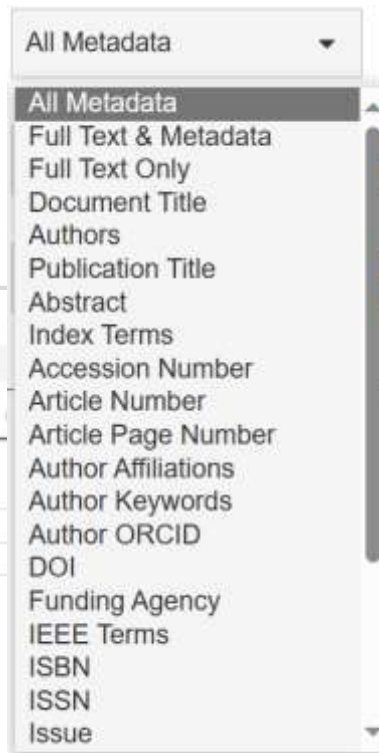
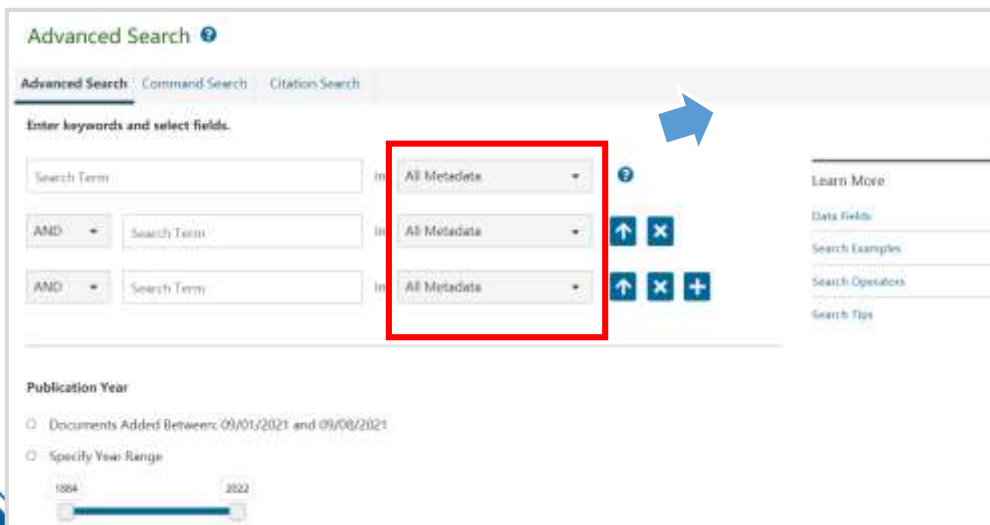
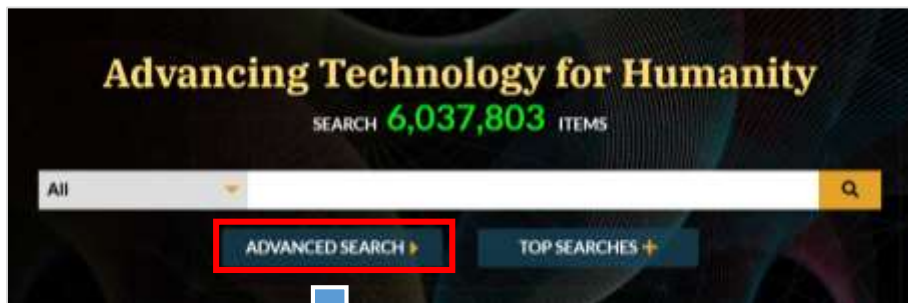
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- Trend Analysis of Building Power Consumption Based on Prophet Algorithm** 🔒
Feixiang Gong; Ninghui Han; Dezhi Li; Shiming Tian
2020 Asia Energy and Electrical Engineering Symposium (AEEES)
Year: 2020 | Conference Paper | Publisher: IEEE
Cited by: Papers (7)
- Research on New Business of Smart Power Consumption** 🔒
Tian Shiming; Li Dezhi; Zhang Yang; Zheng Zhengxian; Gong Feixiang; Jin Zhengjun;
Ma Chuang; Wei Yinwu
2020 5th International Conference on Power and Renewable Energy (ICPRE)
Year: 2020 | Conference Paper | Publisher: IEEE
Cited by: Papers (2)

Abstract HTML PDF CC

文獻檢索：進階檢索，精準設定檢索條件



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Author	Affiliation	Publication Title	Publication Topics
<input type="checkbox"/> Wei Wang (519)	<input type="checkbox"/> School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore (334)	<input type="checkbox"/> IEEE Access (20,116)	<input type="checkbox"/> learning (artificial intelligence) (181,546)
<input type="checkbox"/> Lei Zhang (459)	<input type="checkbox"/> School of Computer Science and Engineering, Nanyang Technological University, Singapore (278)	<input type="checkbox"/> IEEE Transactions on Pattern Analysis and Machine Intelligence (2,446)	<input type="checkbox"/> neural nets (39,699)
<input type="checkbox"/> Yang Liu (413)	<input type="checkbox"/> Artificial Intelligence Lab., MIT, Cambridge, MA, USA (239)	<input type="checkbox"/> IEEE Transactions on Image Processing (2,385)	<input type="checkbox"/> feature extraction (37,181)
<input type="checkbox"/> Lei Wang (375)	<input type="checkbox"/> School of Computer Science and Engineering, South China University of Technology, Guangzhou, China (213)	<input type="checkbox"/> 2011 2nd International Conference on Artificial Intelligence, Management Science and Electronic Commerce (AIMSEC) (1,874)	<input type="checkbox"/> pattern classification (26,636)
<input type="checkbox"/> Wei Zhang (373)	<input type="checkbox"/> School of Computer Science and Engineering, Nanjing University of Science and Technology, Nanjing, China (202)	<input type="checkbox"/> IEEE Transactions on Neural Networks and Learning Systems (1,724)	<input type="checkbox"/> image classification (25,102)
<input type="checkbox"/> Dacheng Tao (351)	<input type="checkbox"/> School of Electrical and Information Engineering	<input type="checkbox"/> IEEE Transactions on Neural Networks (1,625)	<input type="checkbox"/> convolutional neural nets (18,228)
<input type="checkbox"/> Wei Li (350)		<input type="checkbox"/> IEEE Transactions on Cybernetics (1,148)	<input type="checkbox"/> support vector machines (15,411)
<input type="checkbox"/> Nanning Zheng (340)		<input type="checkbox"/> 2021 IEEE/CVF Conference on Computer Vision and Pattern	<input type="checkbox"/> ontologies (artificial intelligence) (14,638)
<input type="checkbox"/> Jun Wang (320)			<input type="checkbox"/> optimisation (13,983)
<input type="checkbox"/> Jun Zhang (318)			<input type="checkbox"/> object detection (13,452)
<input type="checkbox"/> Wei Liu (314)			<input type="checkbox"/> data mining (12,802)
<input type="checkbox"/> Xuelong Li (313)			<input type="checkbox"/> image segmentation (12,552)
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- Oldest
- Most Cited By Papers**
- Most Cited By Patents
- Most Popular
- Publication Title A-Z
- Publication Title Z-A

How do we move towards true artificial intelligence
Wei Liu; Guangda Zhuang; Xin Liu; Shaobo Hu; Ruilin He; Yuhu Wang
2021 IEEE 23rd Int Conf on High Performance Computing & Communications; 7th Int Conf on Systems; 19th Int Conf on Smart City; 7th Int Conf on Dependability in Sensor, Cloud & Application (HPCC/DSS/SmartCity/DependSys)
Year: 2021 | Conference Paper | Publisher: IEEE
Cited by: Papers (10)

Construction of Enterprise Business Management Analysis Framework in Development of Artificial Intelligence
Meijing Song; Xinjian Chen
2021 International Conference on Computer Information Science and Artificial Intelligence

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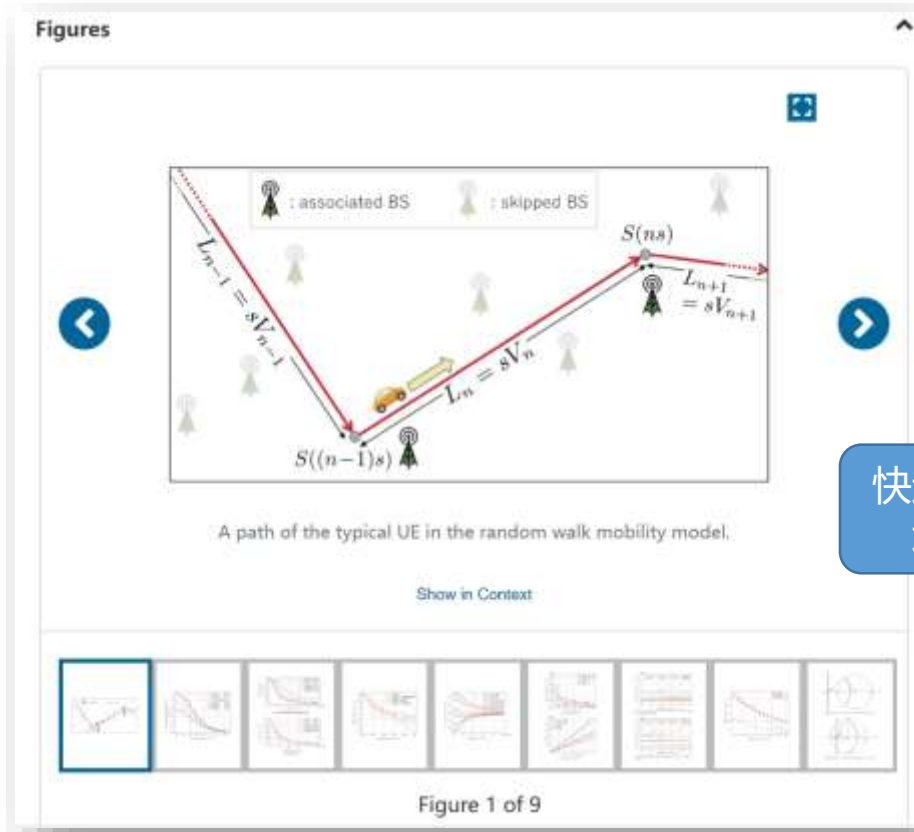






文章細節頁面- HTML互動式線上閱覽

- IV. Conclusions
- Authors
- Figures** →
- References
- Citations
- Keywords
- Metrics



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文章細節頁面- 參考文獻 & 引文

Robust Face Recognition via Sparse Representation

Publisher: IEEE

Cite This

PDF

John Wright; Allen Y. Yang; Arvind Ganesh; S. Shankar Sastry; Yi Ma | All Authors

6914

Paper

Citations

47

Patent

Citations

54935

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Text

Views

Abstract

Document Sections

- 1 Introduction
- 2 Classification Based on Sparse Representation
- 3 Two Fundamental Issues in Face Recognition
- 4 Experimental Verification
- 5 Conclusions and Discussions

Authors

Figures

References

Citations

Keywords

Metrics

Media

Footnotes

Abstract:

We consider the problem of face recognition under non-uniform illumination, as well as occlusion and multiple faces in the image.

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1. R. Mitova and R. Ghosh, "Investigations of 600V GaN HEMT and GaN diode for the power converter applications", *IEEE Trans. Power Electron.*, vol. 29, no. 5, pp. 2441-2452, May 2014.

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2. "Application Advantages and Disadvantages of Modern Fast Switching MOSFETs in VRM", *PCIM Europe*, 2016.

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3. Christian B. M. ... "Impact of module parasitics on the performance of fast switching devices", *PCIM Europe*, 2014.

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4. Alan Elbanhawey, MOSFET Susceptibility to Cross Conduction, *Power Electronics Technology*, April 2006.

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5. Alan Elbanhawey, AN 7010 Unified Cross Conduction Clamped in Resonant Buck Converter

引文：

快速獲取引文全文，瞭解領域後續研究進展

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1. Yuqing Fei, Fan Pu, Yao Li, Yuyang Liu, Yufei Tao, Weilin Li, "A Bidirectional Solid-State Power Controller for 270V HVDC Aviation Power Supply System", *2022 IEEE 5th International Electrical and Energy Conference (CIEEC)*, pp.1715-1720, 2022.

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2. Shuyan Zhao, Reza Kheirollahi, Yao Wang, Hua Zhang, Fei Lu, "Investigation of Limitations in Passive Voltage Clamping-Based Solid-State DC Circuit Breakers", *IEEE Open Journal of Power Electronics*, vol.3, pp.209-221, 2022.

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3. Peng Xue, Francesco Iannuzzo, "Self-Sustained Turn-OFF Oscillation of Cascode GaN HEMTs: Occurrence Mechanism, Instability Analysis, and Oscillation Suppression", *IEEE Transactions on Power Electronics*, vol.37, no.5, pp.5491-5500, 2022.

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- 1. Yuqing Fei, Fan Pu, Yao Li, Yuyang Liu, Yufei Tao, Weilin Li, "A Bidirectional Solid-State Power Controller for 270V HVDC Aviation Power Supply System", *2022 IEEE 5th International Electrical and Energy Conference (CIEEC)*, pp.1715-1720, 2022.
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- 2. Shuyan Zhao, Reza Kheirollahi, Yao Wang, Hua Zhang, Fei Lu, "Investigation of Limitations in Passive Voltage Clamping-Based Solid-State DC Circuit Breakers", *IEEE Open Journal of Power Electronics*, vol.3, pp.209-221, 2022.
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- 3. Peng Xue, Francesco Iannuzzo, "Self-Sustained Turn-OFF Oscillation of Cascode GaN HEMTs: Occurrence Mechanism, Instability Analysis, and Oscillation Suppression", *IEEE Transactions on Power Electronics*, vol.5, pp.5494-5500, 2020.

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- ▶ 隨著IEEE Xplore平臺內容的不斷更新，該工具將實現即時索引，並能夠連結到IEEE的全庫內容，從而更精確、快速地檢索到目標文獻。
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 - 連結相關概念，增強檢索關聯性

The screenshot displays the 'IEEE Keywords' section of an article. It lists various terms such as 'Cloud computing', 'Energy consumption', 'Data centers', 'Scheduling algorithms', 'Time series analysis', 'Containers', and 'Prediction algorithms'. Below this is the 'Index Terms' section, which includes terms like 'Energy Consumption', 'Resource Utilization', 'Simulation Experiments', 'Virtual Machines', 'Global Resources', 'Scheduling Algorithm', 'Task Scheduling', 'Global Utility', 'Cloud Computing', 'Long Short-term Memory', 'Recurrent Neural Network', 'Physical Resources', 'Types Of Resources', 'State Resources', 'Processing Capacity', 'Scheduling Scheme', 'Resource Monitoring', 'Resource Scheduling', 'Containerized', 'Results Of Module', 'CPU Utilization', 'Utilization Rate Of Resources', 'Obvious Performance', 'Business Applications', 'Improve Resource Utilization', 'Independent Tasks', 'Resource Density', 'Physical Nodes', 'Task Execution', and 'Time Series'. The 'Author Keywords' section lists 'container', 'LSTM', 'predict', 'scheduling', and 'CloudSim'. A navigation menu on the left side of the page has the 'Keywords' option highlighted with a red box, and a blue arrow points from this menu to the main content area.

補充資料：多媒體、會議錄影、代碼、數據和沉浸互動文章

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 - Video (1,183)
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A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques 
Guohua Wu; Xupeng Wen; Ling Wang; Witold Pedrycz; P. N. Suganthan
IEEE Transactions on Evolutionary Computation
Year: 2021 | Early Access Article | Publisher: IEEE

▶ Abstract   **Media**  File Cabinet

多媒體資料



Media



Description

This is the supplementary file of the article "A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques" published in IEEE Transactions on Evolutionary Computation. This file contains two parts. One part includes the details of the 57 real-world constrained optimization problems, which are used in Section IV in the manuscript. Another part is the experimental results, including the best/mean/median values of the ten comparison algorithms on the 57 real-world constrained optimization problems, as the supplementary data of Table I and Table II in the manuscript.

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Affiliation	▼
Publication Title	▼
Publisher	▼
Supplemental Items	▲
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Conference Location	▼
Standard Status	▼
Standard Type	▼

SR Latch: The Wrong Introduction to Digital Memory
Abdulahdi Shoufan
2020 IEEE International Symposium on Circuits and Systems (ISCAS)
Year: 2020 | Conference Paper | Publisher: IEEE

▶ Abstract (html) (128 Kb) © **▶ Video**

會議視頻

The screenshot shows a video player interface. The main content is a presentation slide with the following text:

Open Source RFNoC-Based Testbed for Millimeter-Wave Experimentation Using USRP Software Defined Radios

Adriana Moreno ^{*}, Jesús Omar Lacruz ^{*}, Joerg Widmer ^{*}

^{*} IMDEA Networks Institute, ^o Universidad Carlos III de Madrid, Spain




2020 IEEE International Symposium on Circuits and Systems
Virtual, October 10-21, 2020

The slide also features logos for IMDEA, Universidad Carlos III de Madrid, and Circa. The video player includes a play button, a progress bar, and a transcript sidebar on the right.

補充資料：多媒體、會議錄影、代碼、數據和沉浸互動文章

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- Publication Title
- Publisher
- Supplemental Items**
 - Media (57,329)
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 - Video (1,183)
 - Code (566)
 - Immersive Articles (2)
- Conference Location
- Standard Status
- Standard Type

A Novel Mean-Shift Algorithm for Data Clustering
Claude Cariou; Steven Le Moan; Kacem Chehdi
IEEE Access
Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE


Abstract HTML   **Code** 

代碼

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.

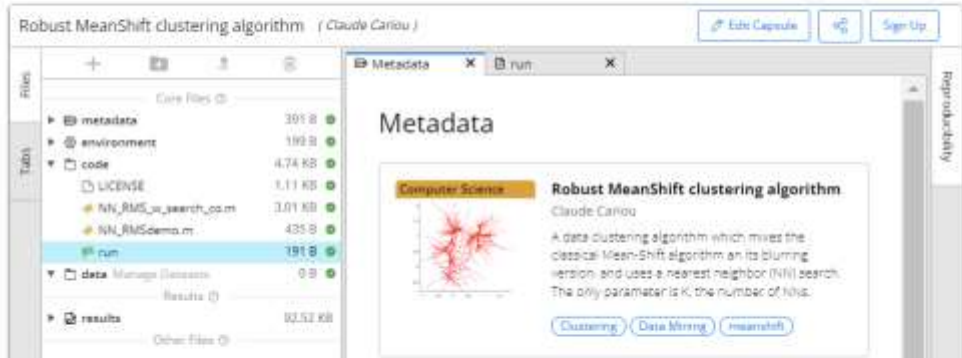
Code:  MATLAB Robust MeanShift clustering algorithm

Robust MeanShift clustering algorithm (Claude Cariou)

Metadata

Computer Science **Robust MeanShift clustering algorithm**
Claude Cariou
A data clustering algorithm which mixes the classical Mean-Shift algorithm with its blurring version and uses a nearest neighbor (NN) search. The only parameter is K, the number of NNs.

Clustering Data Mining meanshift



補充資料：多媒體、會議錄影、代碼、數據和沉浸互動文章

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 - Media (57,329)
 - Datasets (1,193)
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 - Code (566)
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Multi-Modal Remote Sensing Image Matching Considering Co-Occurrence Filter

Yongxiang Yao; Yongjun Zhang; Yi Wan; Xinyi Liu; Xiaohu Yan; Jiayuan Li
IEEE Transactions on Image Processing
Year: 2022 | Volume: 31 | Journal Article | Publisher: IEEE


Abstract HTML **Datasets**

數據

Datasets

Standard Dataset

COFSM



Dataset Authors: Yongxiang Yao, Yongjun Zhang
Submitted by: Yongxiang Yao
Last updated: Apr 09 11:08:02 -11:04
DOI: 10.21203/rs.3.rs-19113
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3633 Views
Categories: Image Processing
Keywords: Multi-modal Remote Sensing Image Matching, Co-occurrence Filter, Near Image Problem

[ACCESS DATASET](#) [BY DOI](#) [SHARE ON](#)

ABSTRACT
This CoFSM dataset contains the supplemental material of TSP157452 (Multi-modal remote sensing image datasets). The CoFSM dataset contains six types of modal images (multi-temporal optical, infrared-optical, depth-optical, map-optical, SAR-optical and ring-to-day). Each modal type includes 13 groups of images, and each set of images has corresponding ground truth points. These ground truth data are stored in the "Ground_truth" folder. For more details, see the following URL: <http://dx.doi.org/10.21203/rs.3.rs-19113>

Introduction
Introduction of the CoFSM dataset:
This CoFSM dataset contains the supplemental material of TSP157452 (Multi-modal remote sensing image datasets). The CoFSM dataset contains six types of modal images (multi-temporal optical, infrared-optical, depth-optical, map-optical, SAR-optical and ring-to-day). Each modal type includes 13 groups of images, and each set of images has corresponding ground truth points. These ground truth data are stored in the "Ground_truth" folder.

II. CoFSM dataset of Multi-modal remote sensing image
--First "Multi-modal Remote Sensing Image Matching Considering Co-occurrence Filter", to be published in IEEE Transactions on Image Processing.
Dataset introduction:
It contains 6 multi-modal data types:
1) --optical-optical includes 13 sets of images;

DATASET FILES
+ CoFSM dataset contains multi-modal images data CoFSM.zip (37.46 MB)
[CLICK TO DOWNLOAD DATASET FILES](#)

DOCUMENTATION
[Introduction to the "CoFSM" dataset \(1.61B KB\)](#)

QUESTIONS?
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- Supplemental Items**
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- Datasets (1,193)
- Video (1,183)
- Code (566)
- Immersive Articles (2)
- Conference Location
- Standard Status
- Standard Type

Type-1 and Interval Type-2 Fuzzy Systems [AI- eXplained]

Dongrui Wu; Ruimin Peng; Jerry M. Mendel
IEEE Computational Intelligence Magazine
Year: 2023 | Volume: 18, Issue: 1 | Magazine Article | Publisher: IEEE
Cited by: Papers (8)

Abstract HTML    **沉浸互動模式**

Try to drag the blue or green dot to change the membership interval of x .

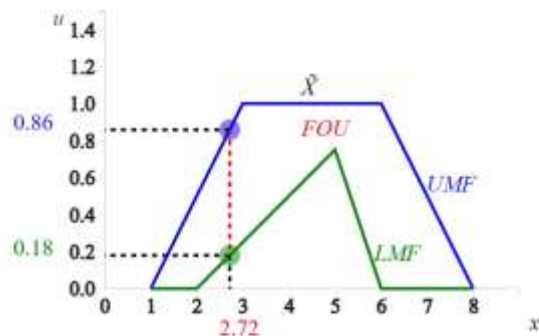
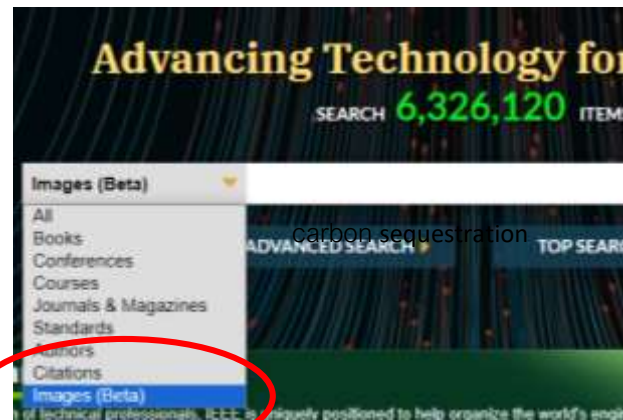


Figure 7:
Example of an IT2 fuzzy set. When the input $x = 2.72$, the membership interval is $[0.18, 0.86]$, represented by the red dashed line.

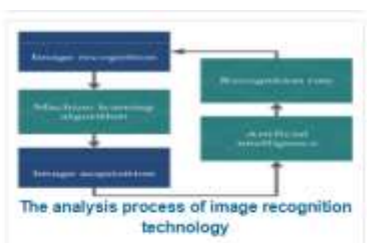
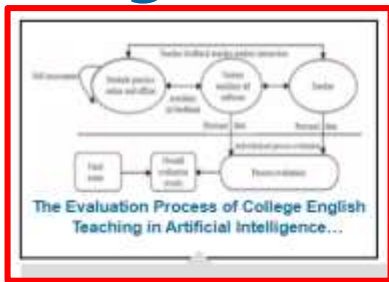
Image Search (Beta)

- ▶ 圖像搜索是IEEE *Xplore* 的一項新功能，可獲取期刊和會議論文中的相關圖像、圖表、原理圖、流程圖等。
- ▶ 使用者可以對圖像中繼資料進行關鍵字搜索。
- ▶ 搜索結果頁面將顯示圖像。



NOTE: The initial beta release will be accessible to IEL subscribers only.

Image Search (Beta)



放大圖像



Research on College English Teaching Mode Based on Artificial Intelligence

Ma Yuan

2021



2021 International Conference on Big Data Analysis and Computer Science (BDACS)

Abstract

With the continuous development of the times, one of the major challenges facing college English in China is how to reduce or eliminate "dumb English". Over the years, with the continuous progress of artificial intelligence technology, it has been deeply explored in different fields and levels, such as the understanding of language knowledge or the cognition of images. However, how artificial intelligence...

Show in Context

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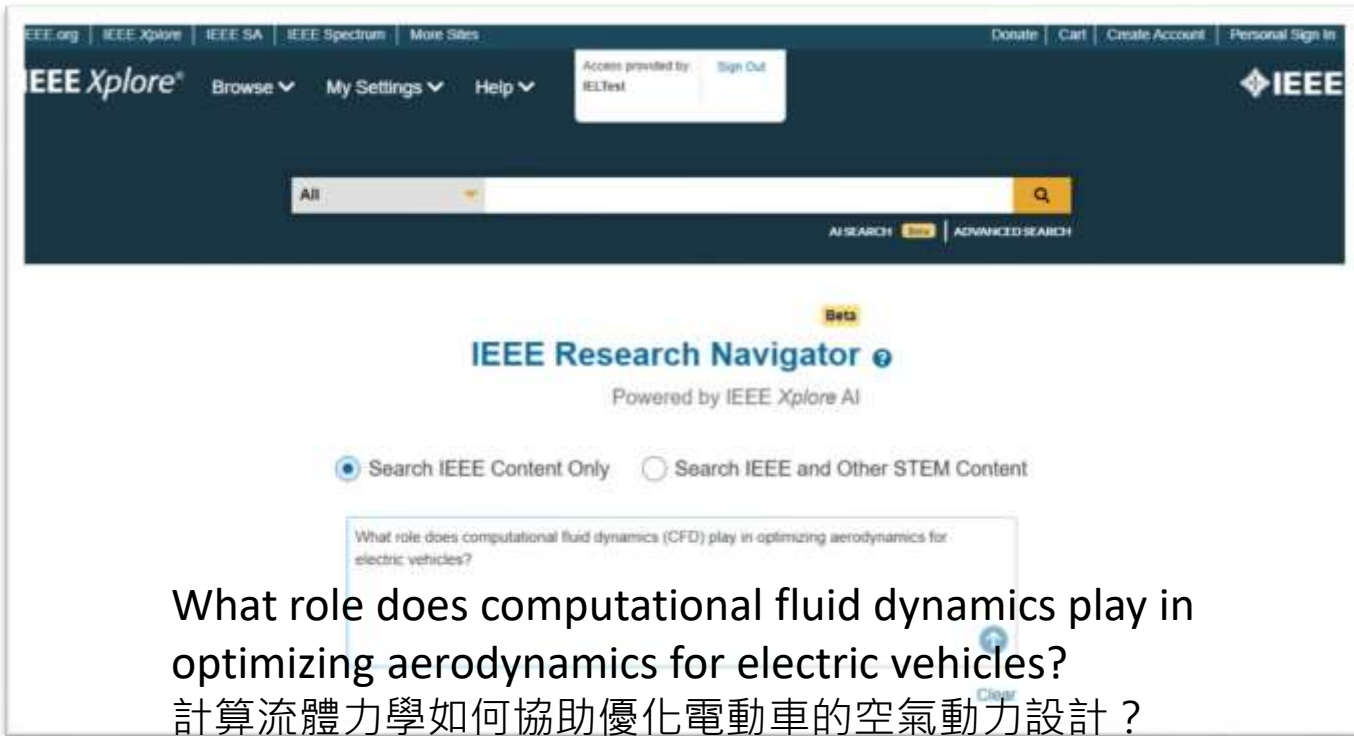
IEEE AI: Research Navigator

Alternatively, you can click on “AI Search” from the global header or select the link from Advanced Search.

The screenshot shows the IEEE Xplore Advanced Search page. At the top, the navigation bar includes the IEEE Xplore logo, menu items for 'Browse', 'My Settings', and 'Help', and a user profile section for 'Access provided by: IELTest' with a 'Sign Out' button. The main search area features a search bar with 'All' selected and a dropdown menu. Below the search bar, there are two buttons: 'AI SEARCH' (highlighted with an orange box) and 'ADVANCED SEARCH'. The 'Advanced Search' section is active, showing tabs for 'Advanced Search', 'Command Search', and 'Citation Search'. The 'Advanced Search' tab is selected, and the page prompts the user to 'Enter keywords and select fields.' There are three search input fields, each with a dropdown menu set to 'All Metadata'. The first field is empty, the second contains 'Search Term', and the third contains 'Search Term'. To the right of the third field, there are three buttons: an up arrow, a close button (X), and a plus button (+). A blue notification box (highlighted with an orange box) is overlaid on the right side of the page, containing the text: 'New! IEEE Xplore AI Research Suite', 'Your institution is enrolled in a beta test of a new AI search feature for a limited time.', and a 'Start Your Search' button.

Initiating a Search from IEEE Research Navigator

From the IEEE Research Navigator page, you can begin your search by leveraging the large search box provided. You can search IEEE content only or expand your search to other STEM content that has been indexed.



IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites | Donate | Cart | Create Account | Personal Sign In

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All [v] [Q]

AI SEARCH [Beta] | ADVANCED SEARCH

Beta

IEEE Research Navigator

Powered by IEEE Xplore AI

Search IEEE Content Only Search IEEE and Other STEM Content

What role does computational fluid dynamics (CFD) play in optimizing aerodynamics for electric vehicles?

Clear

What role does computational fluid dynamics play in optimizing aerodynamics for electric vehicles?
計算流體力學如何協助優化電動車的空氣動力設計？

IEEE Research Navigator

IEEE AI Overview

IEEE AI Overview

Computational Fluid Dynamics (CFD) is utilized in the simulation and analysis of aerodynamic flow around vehicles, serving as a tool for optimizing vehicle designs [1]. Research explores the application of neural network architectures, such as FCNN and SiRen, for simulating aerodynamic flow within a tunnel environment using CFD, comparing their performance characteristics [1]. Furthermore, CFD is employed in the design of adaptive aerodynamic components for vehicles, including adaptive spoilers, to enhance vehicle dynamics by enabling real-time adjustments to varying driving conditions [2]. This approach is part of an interdisciplinary effort combining mechatronics, aerodynamics, and material science for next-generation vehicles [2]. CFD also plays a role in quantifying fuel savings resulting from reduced aerodynamic drag in vehicle platoons, contributing to the design and management of these platoons [5]. Additionally, CFD simulations are used in conjunction with genetic algorithms to optimize the thermal management of electric and hybrid electric vehicles, specifically for heat sink designs [6]. This optimization involves evaluating design performance concerning pressure drop and thermal efficiency [6]. CFD is also applied to analyze the gas velocity, pressure, and turbulence kinetic energy at peak temperature for thermoelectric generators used in the regenerative braking of hybrid electric vehicles, aiming to increase operating range by storing electrical power output [3].

Show More

References:

1. Simulation Analysis of Car Aerodynamics within Tunnel Environment using Deep Learning: A Comparative Architectural Study
2. Proposal of Cyber-Physical System for Real-Time Adaptive Aerofoils in Vehicles
3. Computational fluid dynamics (CFD) analysis of thermoelectric generator for Regenerative Braking of the Hybrid Electric Vehicle
4. Fast Numerical Powertrain Optimization Strategy for Connected Hybrid Electric Vehicles
5. Modeling Slipstreaming Effects in Vehicle Platoons
6. Optimization of Pin Arrangement and Geometry in EV and HEV Heat Sink Using Genetic Algorithm Coupled With CFD

Save Search

Copy

在搜尋結果的最上方，會顯示一個名為「IEEE AI Overview」的面板，呈現 IEEE 大型語言模型（LLM）針對使用者查詢所產生的回應。

這份摘要會根據排名最相關的前幾筆搜尋結果中擷取出的內容，動態產生，目的是直接回應使用者的查詢問題。



IEEE Research Navigator

AI Summary of Article

The screenshot displays the IEEE Research Navigator interface. At the top, there is a dark navigation bar with the IEEE Xplore logo and search options. Below this, the main header reads "IEEE Research Navigator" and "Powered by IEEE Xplore AI". A search bar is visible with the text "Computational Fluid Dynamics".

The main content area shows a search result for the article "A Convolutional Neural Network Based Approach for Computational Fluid Dynamics" by Satyadhyar Chakraborty and P Ashish. The publisher is IEEE, and it is a 2021 conference paper. An "AI Summary" section is highlighted, containing the following points:

- Simulates fluid flow using HPC, Navier Stokes Equation, and Lattice Boltzmann Equation.
- Proposes a convolutional neural network (CNN) model for predicting non-uniform flow in 2D to overcome computational costs.
- Provides efficient velocity field estimates and reduces processing time compared to previous approximation methods.

Below the summary is an "Abstract" section. A "Recommended Reads" sidebar is visible on the right. The bottom of the image shows a smaller version of the same article card.

在每一筆搜尋結果下方，都可以看到該文章的 **AI 生成摘要**。

每一則摘要會顯示文章的 **三個重點**，這些重點是根據文章的全文與摘要所整理出來的。

AI 摘要會提供文章的簡短概述，讓使用者能快速了解這篇文章為什麼會被檢索出來，並判斷是否要繼續閱讀完整文章。



Navigating to IEEE Reading Lens

◆ 在 Research Navigator 的搜尋結果頁面中，點選文件標題即可開啟 Reading Lens。

◆ Reading Lens 適用於 IEEE 內容。


◆ 部分 IEEE 文件若沒有可供 Reading Lens 標示的術語，系統會連結至該文件的摘要頁面。


Recommended Result

A Convolutional Neural Network Based Approach for Computational Fluid Dynamics

Satyadhyan Chickerur; P Ashish All Authors

Publisher: IEEE | 2021 | Conference Paper



AI Summary 

- Simulates fluid flow using HPC, Navier Stokes Equation, and Lattice Boltzmann Equation.
- Proposes a convolutional neural network (CNN) model for predicting non-uniform flow in 2D to overcome computational costs.
- Provides efficient velocity field estimates and reduces processing time compared to previous approximation methods.



Abstract


Recommended Result

Basics of computational fluid dynamics: An overview

Digambar Patil; Sachin Kadam

Publisher: IOP Publishing | 2023 | Conference Paper

View on Publisher Site  

AI Summary 

- CFD deals with equations controlling fluid motion, applied in diverse technical domains.

IEEE Reading Lens

- 透過在摘要與全文中標示術語，並依上下文提供定義，加速讀者閱讀與理解文章。
- 讀者在閱讀文章時，可以直接查看術語定義，進一步了解相關概念，不需要另外開啟外部網頁查詢。
- 術語會被歸類到 **50 多種分類**，例如演算法、硬體、程式語言等；這些分類也可以用來篩選內容，提升資料發現的效率。

The screenshot shows a document page from IEEE Xplore titled "Advanced Impacts of Nanotechnology and Intelligence". The page includes a list of authors, a document section menu on the left, and a main text area. An "IEEE AI Overview" pop-up window is overlaid on the text, providing a definition for "nanotechnology".

Abstract:
Futuristical contributions of **nanotechnology** include but are not limited to miniaturization, **energy efficiency**, higher efficiency

IEEE AI Overview

TECHNOLOGY
nanotechnology

Nanotechnology is the engineering and study of materials and systems at the nanoscale, typically ranging from 1 to 100 nanometers [1][2][3]. It is a highly interdisciplinary field encompassing physics, chemistry, biology, materials science, and engineering [4]. Nanotechnology involves manipulating individual atoms and molecules to design and create new materials, nanomaterials, and nanodevices [5]. This technology has the potential to revolutionize various sectors, including electronics, medicine, energy, and manufacturing [1][2][3][4]. Nanotechnology is considered an enabling technology with a potentially significant impact across many aspects of life [2]. It offers the ability to create novel materials, composites, and structures on a molecular scale [4]. The applications of nanotechnology are diverse, ranging from extensions of conventional device physics to new approaches based on molecular self-assembly and the direct control of matter at the atomic scale [3]. Potential applications include faster computers, more efficient power sources, and life-saving medical treatments [1].

References:

1. Realizing the Internet of NanoThings: A Review [2]
2. Nano Technology [2]
3. Nanotech: an Atoms, Molecules, and Supramolecular Scale for Industrial Purpose [2]
4. New Science Technology with Many Engineering Applications - Nanotechnology [2]
5. Nanotechnology as an Integral Part of Electronics: A Review [2]
6. An Overview on Nano-Technology [2]

INTRODUCTION

For more than four decades, the semiconductor industry has been driven by Moore's law, where the number of **transistors** per chip has approximately doubled every 18–24 months at a fixed cost per chip. Furthermore, over these

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- Device Hardware
- Technology
- Drive Signal
- Energy System
- Algorithm/Method
- AI Overview

More Like This

Three Steps to the Thermal Neutron Death of Moore's Law
IEEE Transactions on Very Large-Scale Integration (NLSI) Systems
Published: 2019

IEEE Reading Lens

Advanced Impacts of Nanotechnology and Intelligence

Publisher: IEEE [Cite This](#) [PDF](#)

Chao-Sung LAI  Ishita Chakraborty  Han-Hsiung Tai  Channendra Venza  Kai-Ping Chang  Jui-Chyi Wang  [All Authors](#)

378
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Papers

Full
Text Views



- Abstract**
- Document Sections
- » INTRODUCTION
 - » ECOFRIENDLY ENERGY HARVESTER AND SELF-POWERED PHOTODETECTION
 - » TWO DIMENSIONAL (2D) MODULE DEMONSTRATION FOR ADVANCED APPLICATIONS
 - » NANOTECHNOLOGY TO MIMIC AN ARTIFICIAL REFLEX ARC AND PAIN-MODULATION SYSTEM FOR THE SPINAL CORD

Abstract:

Fundamental contributions of **nanotechnology** include but are not limited to miniaturization, **energy efficiency**, higher efficiency and/or effectiveness. The exploration of new computing paradigms such as bioinspired computation and **quantum computing** belongs to the latter. Continuous advances in semiconductor technology include "more Moore" technology, which follows Moore's law of scaling, and "more than Moore" technology realized by hybrid integration with new materials. Much success appears in functionality and scaling in the fields of **electronics**, **optics**, sensors, and **biomedical applications**. In this article, we will show how one can further combine **graphene**, **new 2D materials**, and novel **nanomaterials** extending into the quantum realm that are at the cutting edge of modern scientific and engineering research. This article demonstrates the impacts of **nanotechnology** and **quantum computing** including materials to devices, module demonstration, and the quantum era. In addition, a hybrid-transistor-based artificial reflex arc (ARA) and artificial pain modulation system (APMS) are discussed that illustrate future intelligent alarm systems, neuroprosthetics, and neurorobotics.

Published in: IEEE Nanotechnology Magazine (Volume: 17, Issue: 1, February 2023)

Page(s): 13 - 21

DOI: 10.1109/NANO.2023.3228154

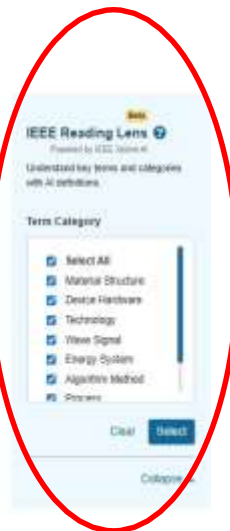
Date of Publication: 01 February 2023

Publisher: IEEE

» [ISSN Information:](#)

» [Funding Agency:](#)

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IEEE Reading Lens

Highlighted Key Terms - AI definition

SECTION I. Introduction

The domain of **self-driving cars** is undergoing rapid development, with numerous breakthroughs in recent years. **self-**

IEEE AI Overview

TRANSPORTATION SYSTEM

self-driving cars

Self-driving cars, also known as autonomous vehicles (AVs), represent a future mobility solution capable of sensing their environment and navigating with minimal to no human intervention [1][2][3][5]. These vehicles employ various technologies, including sensors, GPS, and cameras, to perceive their surroundings [3]. Advanced control units then analyze this sensory data to make informed navigation decisions, detect obstacles, and recognize traffic signals [3]. The autonomy system of self-driving cars is typically divided into perception and decision-making systems [4]. The perception system handles tasks such as localization, mapping of static obstacles, detection and tracking of moving obstacles, road mapping, and traffic signal recognition [4]. The decision-making system includes route and path planning, behavior selection, motion planning, and control [4]. Self-driving cars offer numerous potential benefits, including increased safety by reducing human error, improved public transportation services, decreased auto ownership, and reduced carbon dioxide emissions [1][2]. They also hold the promise of revolutionizing transportation for individuals with disabilities, enabling independent travel for the blind and others [2]. Despite these advantages, challenges remain, such as operating in adverse weather conditions and establishing appropriate legislative frameworks [1]. Companies like Tesla, Waymo, UBER, Nissan, and Nvidia are actively involved in the development and deployment of this technology [2].

References:

1. Self-driving vehicles: current status of development and technical challenges to overcome
2. Review on self-driving cars using neural network architectures
3. Control Systems to Analyze the Sensory Data to Distinguish Between Different Cars on the Road
4. Self-driving cars: A survey
5. Computer Vision in Self Driving Cars
6. Who wants to be a self-driving car?

dataset collected using a global shutter camera, which was dedicated to our operational design domain (ODD), further

針對每一個被標示的關鍵字，系統會提供一段 **AI 生成的定義**；這些定義是由以 IEEE 文章訓練的 **IEEE 大型語言模型 (IEEE LLM)** 所產生。

在生成文字的最後，也會提供 **6 筆 IEEE 參考文獻**，讓使用者可以進一步閱讀原始來源資料。



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Publisher: IEEE Years: 2014 - Present Most Recent Issue

IEEE Internet of Things Magazine
Publisher: IEEE Years: 2018 - Present Most Recent Issue

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Jianwei Liu; Xiang Zou; Leqi Zhao; Yushen

Jinsong Han; Kui Ren

Affiliation



Publication Year: 2024, Page(s): 501 - 51

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S. Hussin; K. Puntsri; R. Noe
OFDM 2012; 17th International OFDM Workshop 2012 (InOWo'12)
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- IEEE Transactions on Cybernetics (145)
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Li Yang; **Lei Zhu**; Wei-Wa Cho; Kam-Weng Tam; Runqi Zhang; Jianpeng Wang

IEEE Microwave and Wireless Components Letters

點擊作者姓名

Lei Zhu

Also published under: L. Zhu, Lei ZHU

Affiliation
Department of Electrical and Computer Engineering
Faculty of Science and Technology
University of Macau, Macau SAR, China

Publication Topics
Radiation Pattern, Resonance Frequency, Equivalent Circuit, Reflection Coefficient, Patch Antenna, Center Frequency, Antenna Array, Equivalent Circuit Model, Electrical Length, Transmission Line, Substrate Integrated Waveguide, Transmission Zeros

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Biography
Lei Zhu (S' 91-M' 93-SM' 00-F' 12) received the B.Eng. and M.Eng. degrees in radio engineering from Southeast University, Nanjing, China, in 1985 and 1988, respectively, and the Ph.D. degree in electronic engineering from the University of Electro-Communications, Tokyo, Japan, in 1993. From 1993 to 1996, he was a Research Engineer with Matsushita-Kotobuki Electronics Industries Ltd., Tokyo. From 1996 to 2000, he was a Research Fellow with the Faculty of Engineering, École Polytechnique de Montréal, University of Montreal, QC, Canada. From 2000 to

Publications
772

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15,723

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