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主要议题

IEEE 驱动科技进步

IEEE Xplore 助力高效科研

IEEE 拥抱开放科学

通过 IEEE 多渠道加强科技交流

IEEE 驱动科技进步

IEEE的成立历史

1884 1912 1963 Present



AIEE
American Institute
of Electrical Engineers
美国电气工程师学会



IRE
Institute of Radio
Engineers
无线电工程师学会



The **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers
电气电子工程师学会



IEEE组织情况

- 非营利组织，全球最大的技术行业学会，成员遍布160多个国家/地区，会员超过45万人



- 300多个地方分会
- 2000多个专业委员会
- 100多个国家/地区的3000多个学生分会

- 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 **最大**
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectrics and Electrical Insulation Society
- IEEE Education Society
- IEEE Electron Devices Society
- IEEE Electronics and Electrical Engineering Society
- IEEE Electromagnetic 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 Solid-State Circuits 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个专业协会

IEEE Societies

IEEE涵盖各个科技工程领域

More than just electrical engineering & computer science

- Aerospace & Defense
- Automotive Engineering
- Biomedical Engineering
- Biometrics
- Circuits & Systems
- Cloud Computing
- Communications
- Computer Software
- Electronics
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- Engineering
- Imaging
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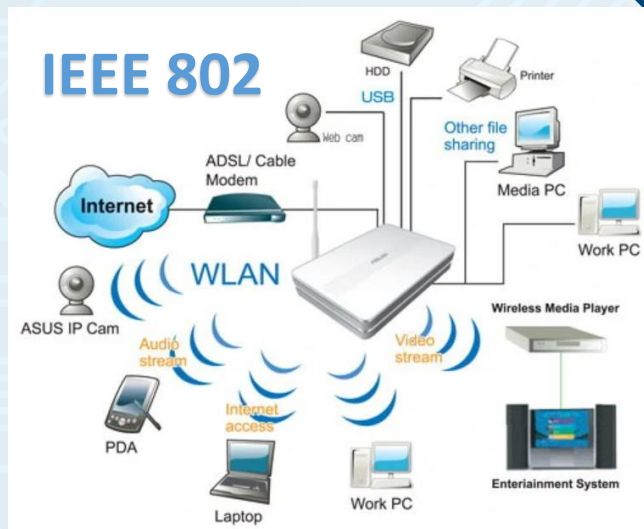
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通过标准活动推动技术合作和经济发展

IEEE标准覆盖范围：

- Electromagnetic Compatibility
- Green Technology
- Ethernet/Wi-Fi
- Medical Device Communications
- Nanotechnology
- Organic Components
- Portable Battery Technology
- Power Electronics
- Power & Energy
- Radiation/Nuclear
- Reliability
- Transportation Technology



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- 这些经过同行评审的高质量内容，在新增到IEEE Xplore平台前，会经由IEEE评审委员会审批；
- 这些电子图书由各领域的专家所著，包括著名的科学家，获奖作者及知名科研人员等，且大多具备雄厚的IEEE学会背景（如IEEE会士、IEEE编辑）；



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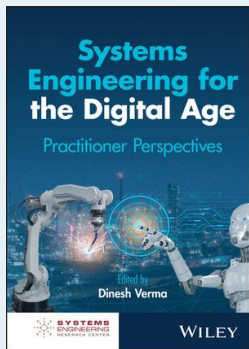
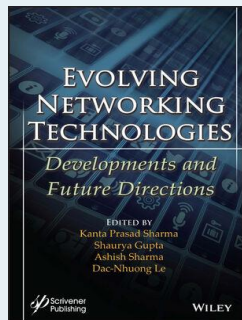
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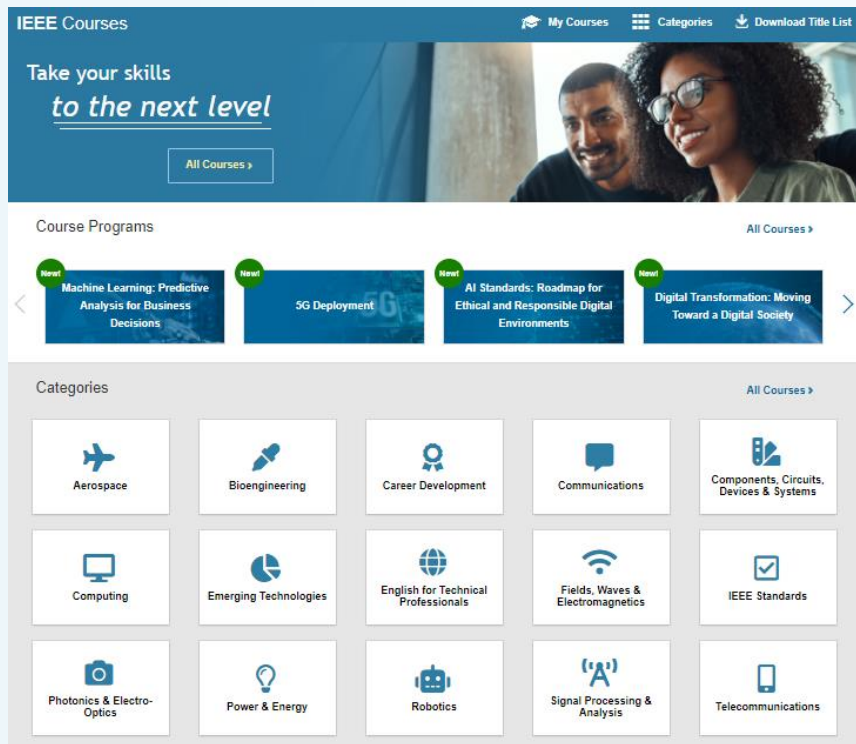
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2023



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(IoT) Security



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2024



Sustainable
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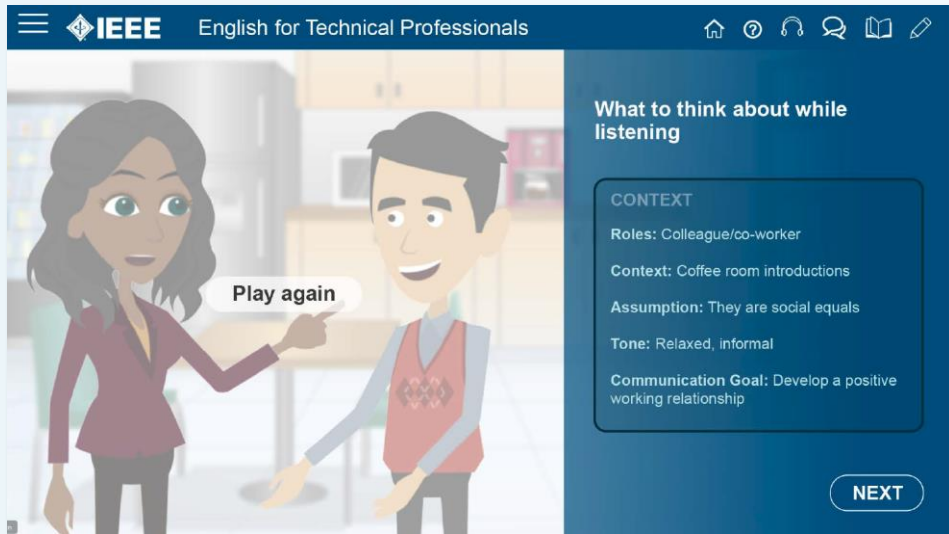
AI in
Semiconductor Design
5 COURSES

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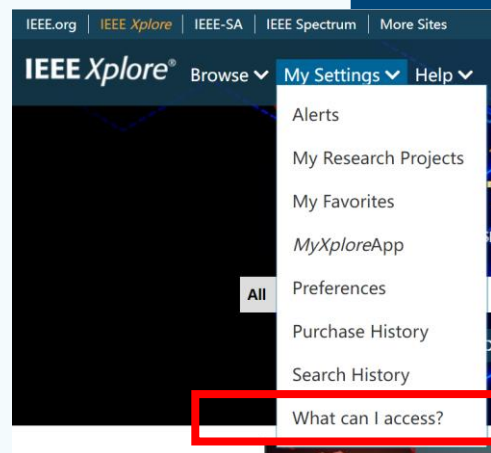


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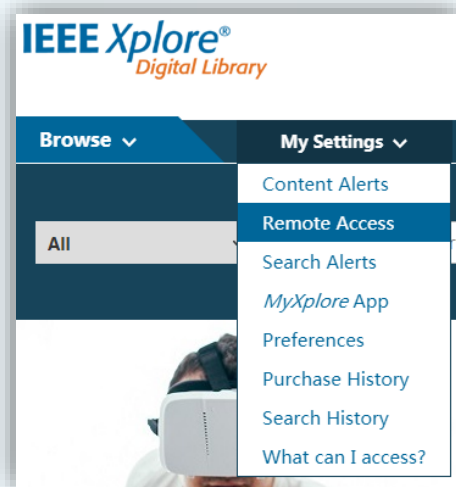
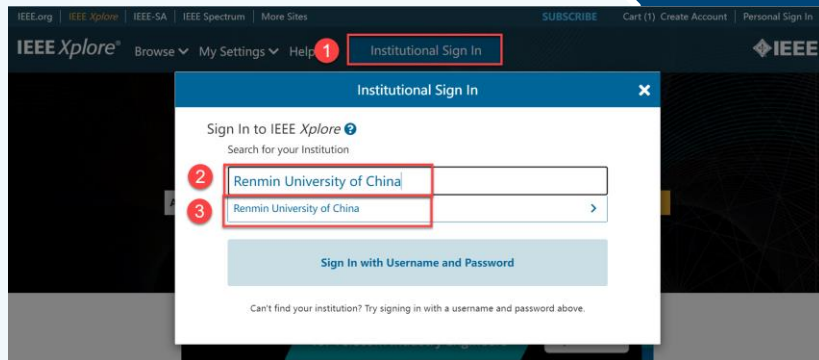
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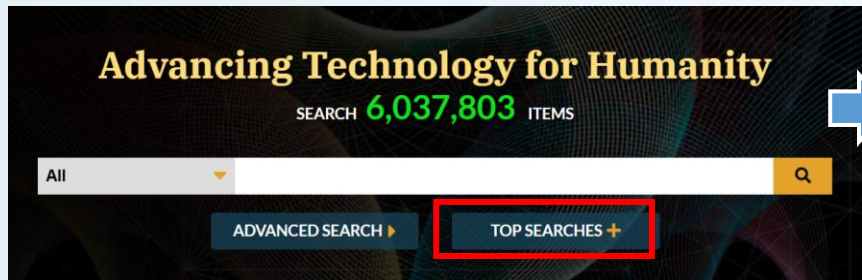


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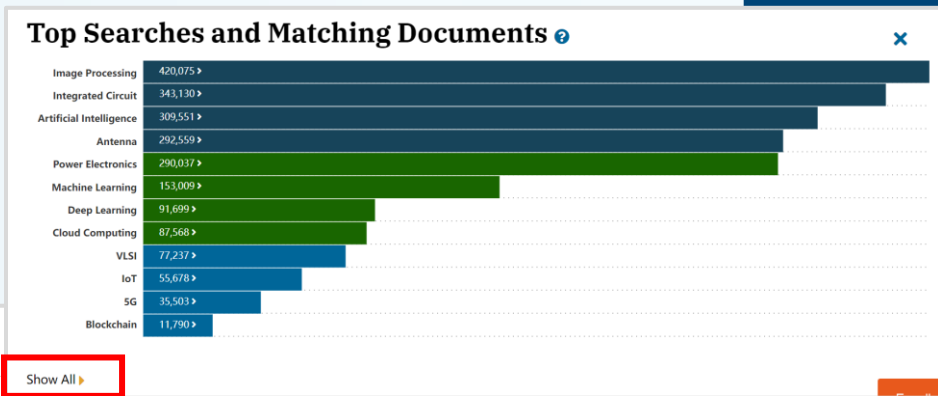


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Internet of Things, data privacy, cryptographic protocols, health care, authorisation, telecommunication security, wireless sensor

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Biography

Mohammad S. Obaidat [s'85, M'86, Sm'91, F'05] received his Ph.D. degree in computer engineering in computer science from The Ohio State University, Columbus. He has published more than 1000 refereed technical articles, about half of them journal articles, over 70 books, and about 70 book chapters. He is Editor-in-Chief of three scholarly journals and an Editor of many other international journals. *(Based on document published on 20 August 2021).*

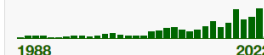
Publications

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Co-Authors:

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Walid Abdallah
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2021 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW)

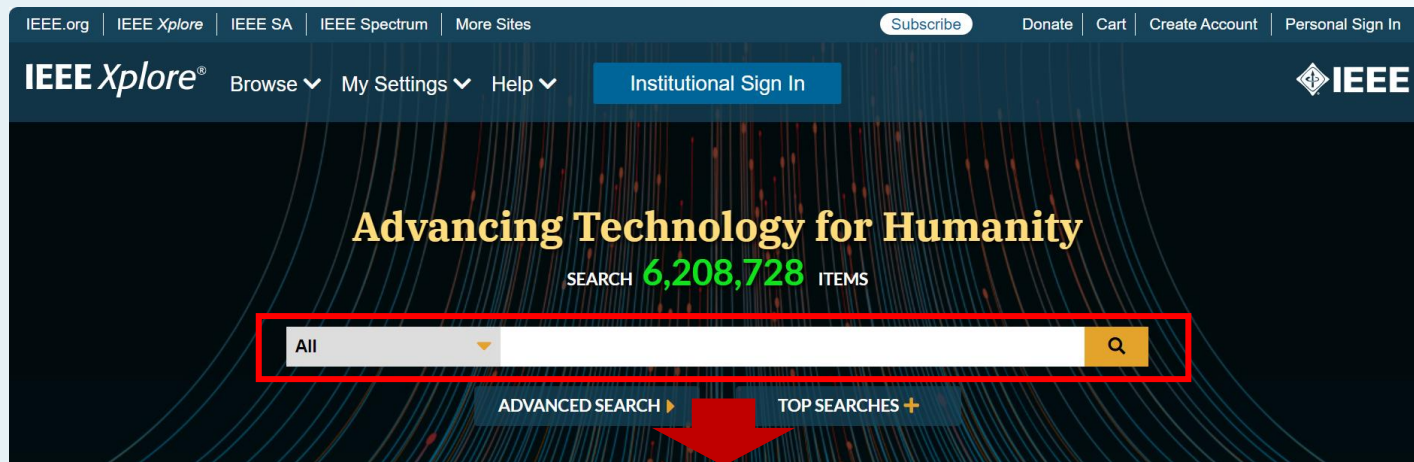


15 - 17 September 2021 | Penghu, Taiwan


Sponsors: IEEE Consumer Technology Society

Field of Interest: 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; Nuclear Engineering; Photonics and Electrooptics; Power, Energy and Industry Applications; Robotics and Control Systems; Transportation


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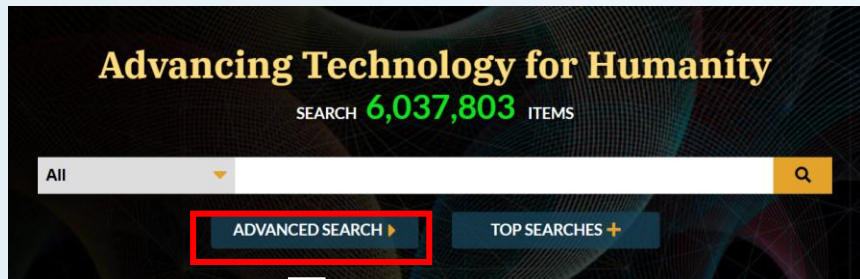
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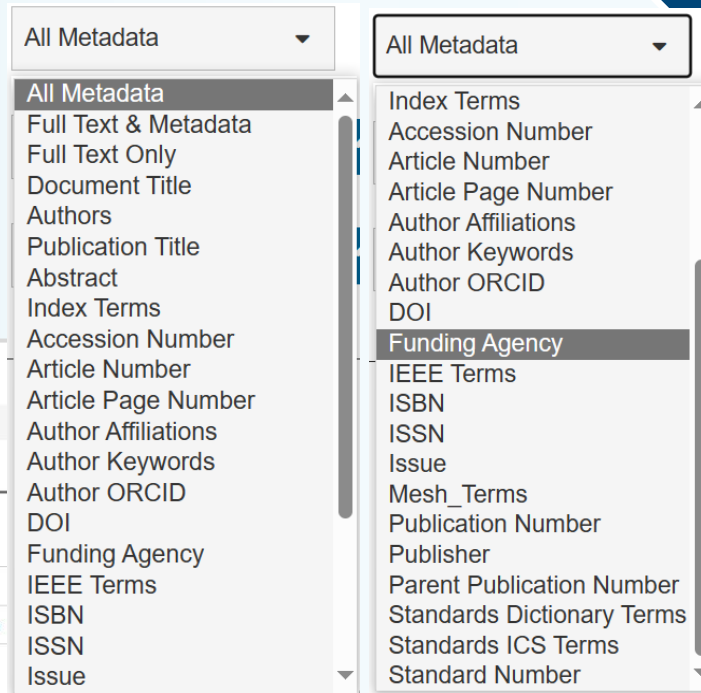
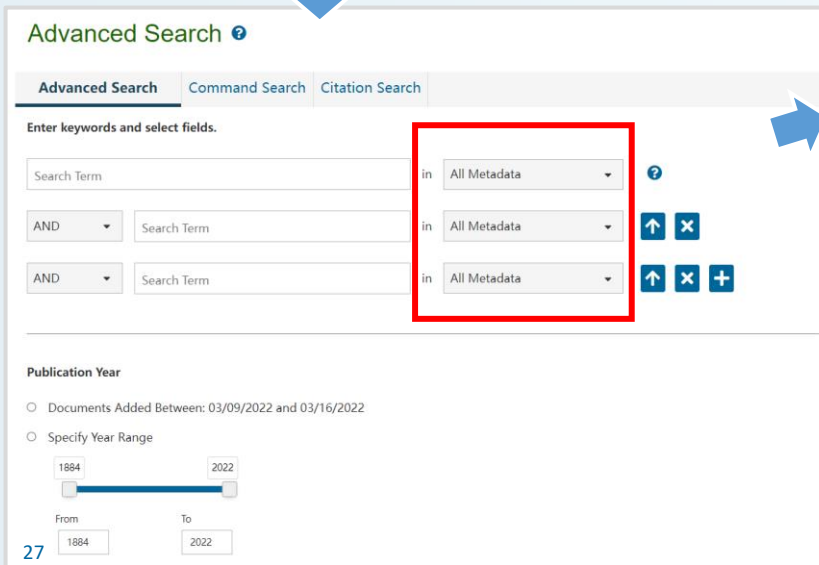
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A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques 


Guohua Wu; Xupeng Wen; Ling Wang; Witold Pedrycz; P. N. Suganthan
IEEE Transactions on Evolutionary Computation
Year: 2021 | Early Access Article | Publisher: IEEE

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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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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

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Transcript

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

[00:03] JESUS OMAR LACRUZ Hello I am Jesus Omar Lacruz from IMDEA Network Institute, Madrid, Spain. I will be in charge to present our work in the 2020 International Symposium On Circuits and Systems. This work is entitled "Open source RFNoC-based testbed for millimeter-wave experimentation using USRP software defined radios." As an innovative technology, millimeter-wave communication requires suitable testbed platforms to [?] speed up [?] data collection and validation of new proposals.

[00:38] JESUS OMAR LACRUZ If we list the [INAUDIBLE] characteristics of a testbed, we'll always [INAUDIBLE] flexibility, the configurability, easy to adapt to different conditions, and of course, affordability. We can find different solutions for millimeter-wave testbed with different characteristics that made them ideal for different scenarios. Some works use commercial off-the-shelf devices as research platforms.

[01:06] JESUS OMAR LACRUZ The main problem is the lack of access to physical layer information. On the other hand, commercial testbeds involve prices that could be not affordable for all research groups. Then we found that USRPs has proven efficacy in sub-6-gigahertz network. So using it in millimeter-wave systems will bring the desired flexibility, affordability, and a wide online open-source community.

[01:35] JESUS OMAR LACRUZ Besides enhancing its functionality with RFNoC framework, [INAUDIBLE] the implementation of signal processing blocks in the FPGA, which is very important to reduce latency and validate system in a hardware-in-the-loop manner. Keeping this in mind, in this work we designed and implemented a millimeter-wave experimentation platform using USRPs and 60-gigahertz transceivers. We take advantage on the RFNoC framework to implement the hardware processing blocks to process the preamble of IEEE 802.11ad compliant frames in real-time working at a

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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

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Citation Author(s): Yongxiang Yao, Yongjun Zhang
 Submitted by: Yongxiang Yao
 Last updated: Fri, 03/11/2022 - 01:24
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ABSTRACT

This CoFSM dataset contains the supplemental material of TIP3157450 (Multimodal 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 night-day). Each modal type includes 10 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 link <https://skyearth.org/publication/project/CoFSM/>.

Instructions:

Introduction of the CoFSM dataset:

This CoFSM dataset contains the supplemental material of TIP3157450 (Multimodal 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 night-day). Each modal type includes 10 groups of images, and each set of images has corresponding ground truth points. These ground truth data are stored in the "Ground_truth" folder.

☐ CoFSM dataset of Multimodal remote sensing image

-from "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 include 10 sets of images;

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- CoFSM dataset: contains multi-modal images data CoFSM.zip (37.48 MB)

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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

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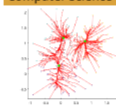
Code: MATLAB Robust MeanShift clustering algorithm

Robust MeanShift clustering algorithm (Claude Cariou)

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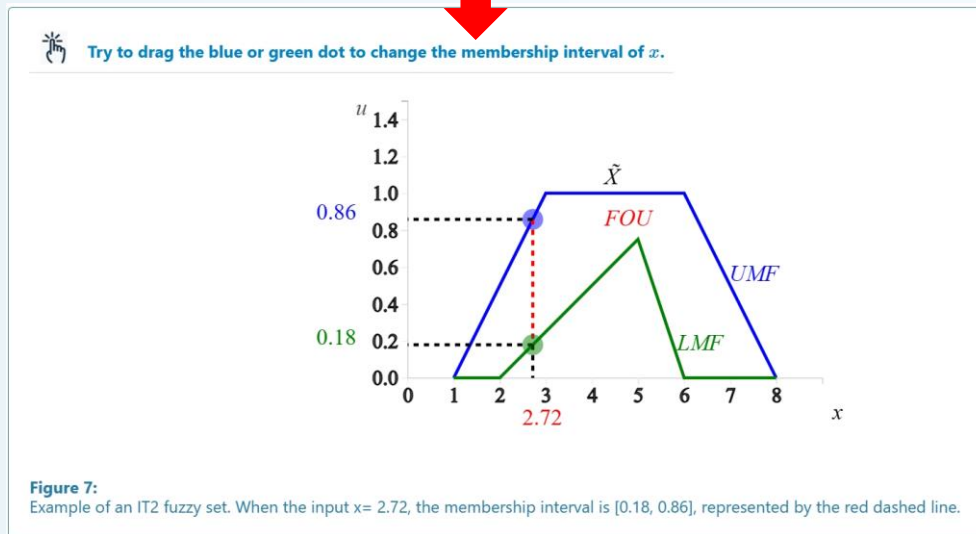
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Type-1 and Interval Type-2 Fuzzy Systems [AI- eXplained] 🔒

Dongrui Wu; Ruimin Peng; Jerry M. Mendel
IEEE Computational Intelligence Magazine
Year: 2023 | Volume: 18, Issue: 1 | Magazine Article | Publisher: IEEE
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HAOYU WANG, YONG LIU, ZHENG HAN, JIANZHANG
2020 International Conference on Artificial Intelligence and Applications (ICAIE)

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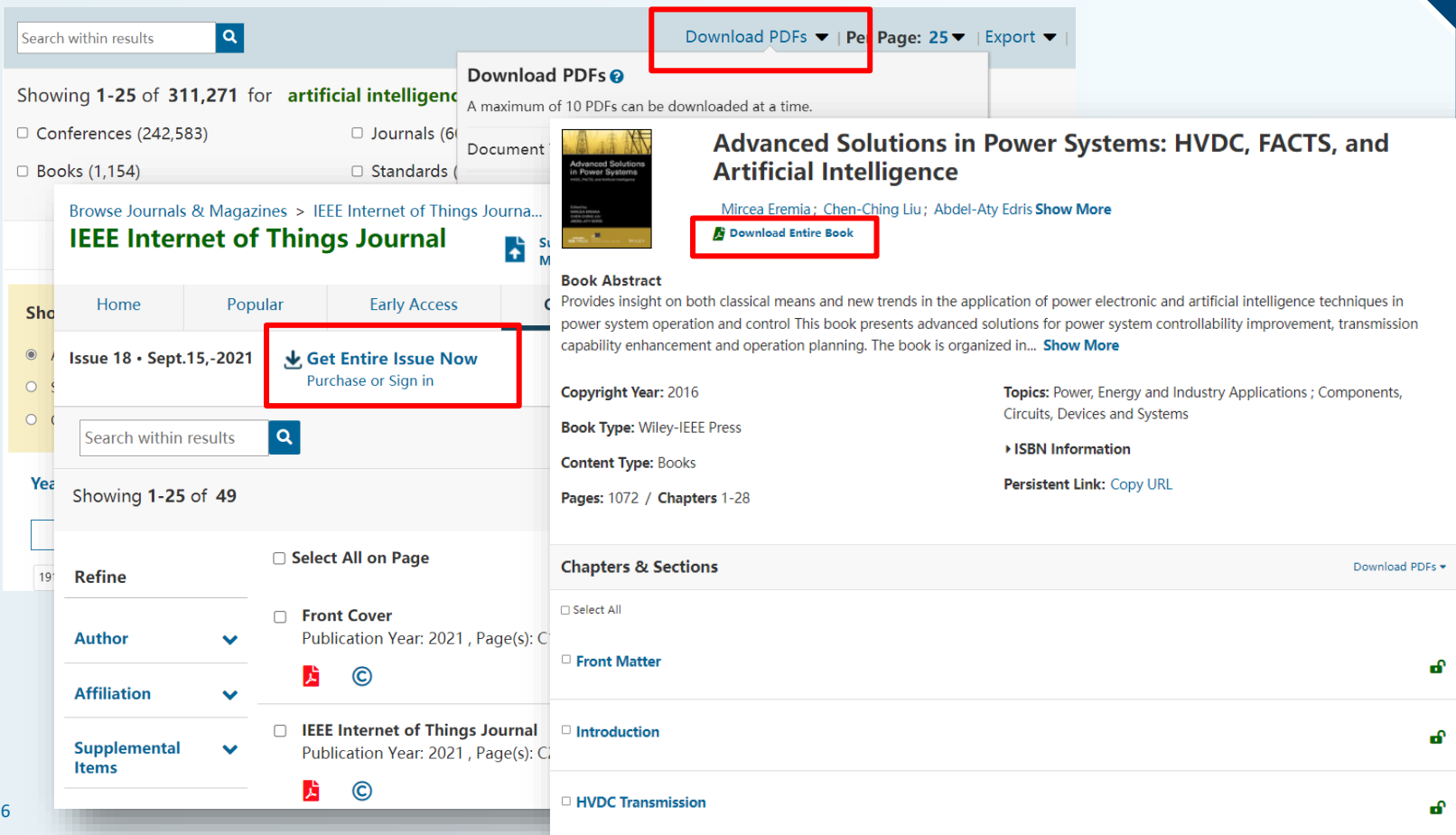
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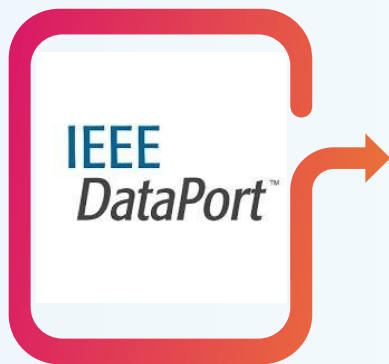
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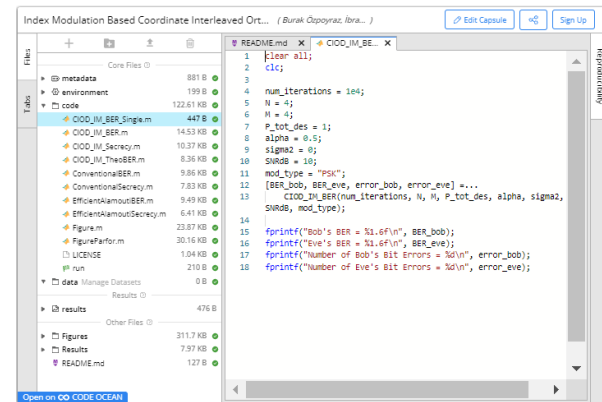
In this paper, we propose a physical layer security scheme that exploits a novel index modulation (IM) technique for coordinate interleaved orthogonal designs (CIOD). Utilizing the diversity gain of CIOD transmission, the proposed scheme, named CIOD-IM, provides an improved spectral efficiency by means of IM. In order to provide a satisfactory secrecy rate, we design a particular artificial noise matrix, which does not affect the performance of the legitimate receiver, while deteriorating the performance of the eavesdropper. We derive expressions of the ergodic secrecy rate and the theoretical bit error rate upper bound. In addition, we analyze the case of imperfect channel estimation by taking practical concerns into consideration. It is shown via computer simulations that the proposed scheme outperforms the existing IM-based schemes and might be a candidate for future secure communication systems.

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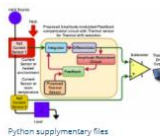
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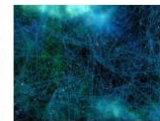
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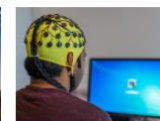
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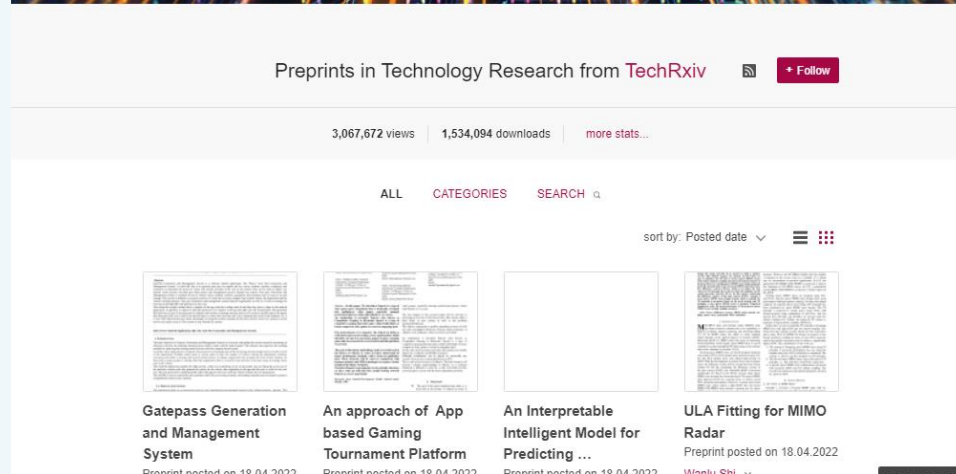
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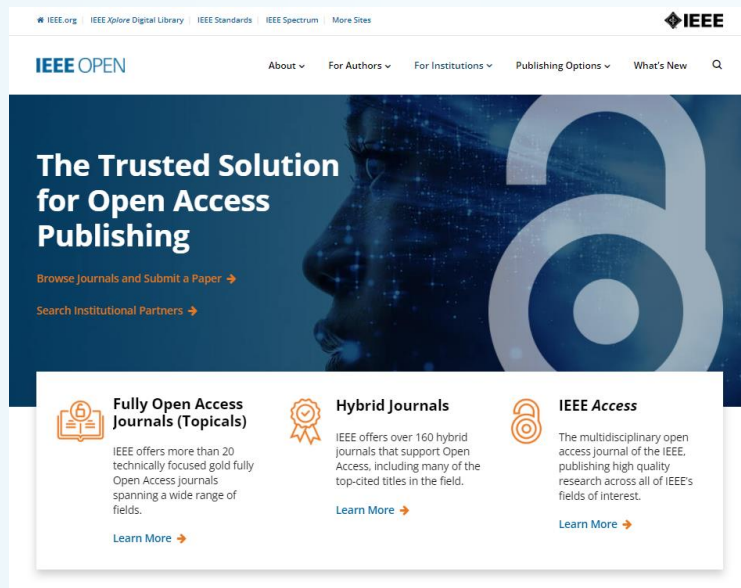
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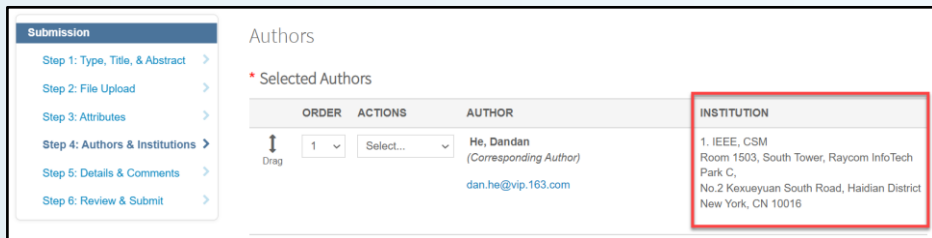
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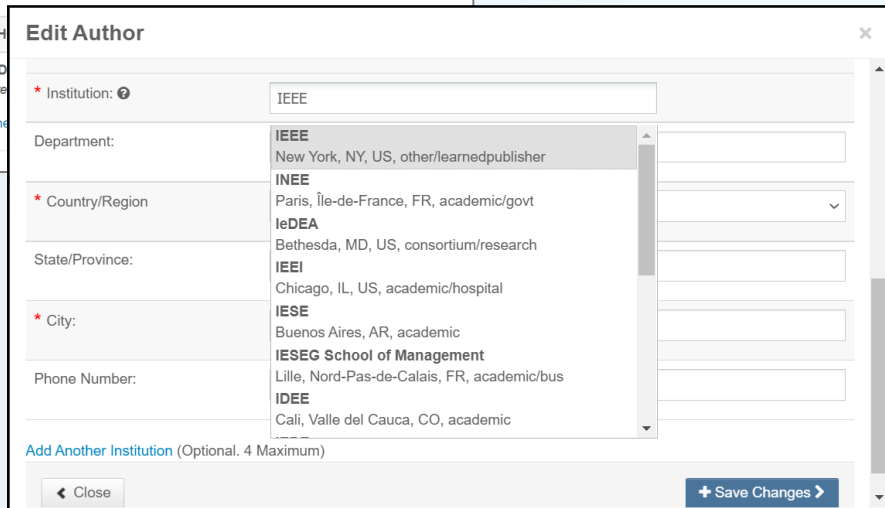
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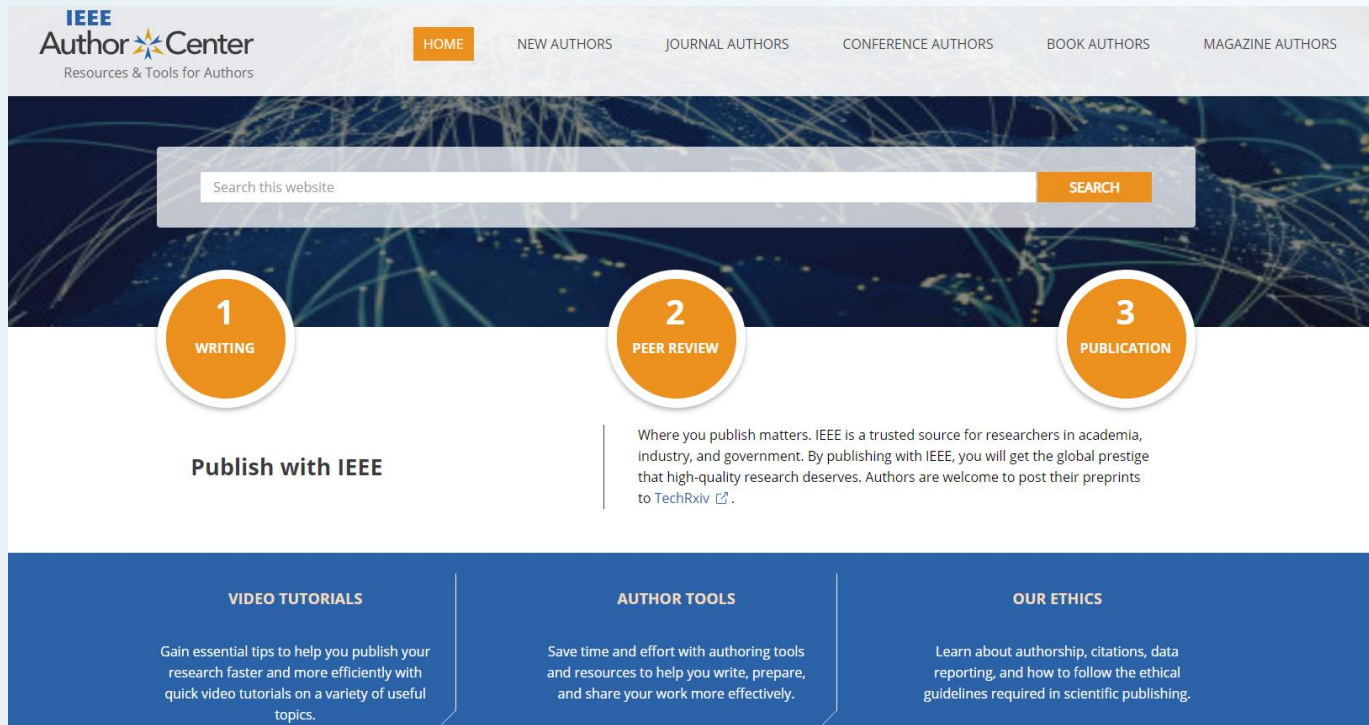
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IEEE Fellow 云论坛 ——半导体领域

技术进步与应用驱动成就IC五十年大发展

论坛介绍

本论坛以1971年Intel第一代CPU芯片4004出现为第一个十年的起点，回顾之后每十年，共五十年（1970-2020）的集成电路发展历程。这个发展步伐目前依然没有显著放慢。集成电路这半世纪无与伦比的快速发展依赖于两个基本动力：永无止境的技术创新与不断涌现的应用需求。

嘉宾介绍

特邀主讲嘉宾：余志平教授



清华大学微电子研究所教授、博士生导师，IEEE Life Fellow，其专业领域是集成电路计算机辅助设计（ICCAD），主要从事半导体集成电路的计算机辅助设计。还从事利用非晶硅CMOS材料集成电路设计与纳米电子学研究。已发表学术论文近400篇，合著英、中文专著十余本。七五计划期间（1986-1990）参与组织的集成集成电路设计荣获1993年国家科技进步一等奖。



李菁

IEEE亚太区区域经理，负责为部分亚太地区包括中国大陆、香港及澳门客户提供科技创新解决方案。曾在担任过中国区高级经理，负责大中华区的IEEE会员推广以及IEEE 高级合作伙伴项目。曾就职于北京大学信息工程学院及美国德州大学信息学院，担任过，ACM、AS、ASFE等国际学术机构负责多场论坛及会议筹备。



IEEE Fellow 云论坛 ——自动驾驶领域

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论坛简介

随着物联网、云计算、大数据、人工智能、5G、区块链等新一代信息技术的快速发展，信息系统、物理系统、人类社会进一步相互融合，形成了工程复杂性与社会复杂性相耦合的复杂系统，即信息物理社会系统（Cyber-Physical-Social Systems, CPSS）。IEEE作为全球最大的科技学会，在物联网、智能驾驶、大数据等相关领域具有技术权威性。

此次论坛特别邀请了IEEE Fellow，智能控制、智能机器人、无人驾驶、智能交通等领域早期开拓者之一的王飞跃教授，为大家带来“基于CPSS的交通5.0：无人车、平行驾驶、智能交通、智慧城市”的主题报告。

特邀嘉宾：王飞跃教授，IEEE Fellow

主要研究领域：系统、智能控制、智能交通、智能机器人、无人驾驶、平行驾驶、社会计算、知识自动化等领域。现为中国科学院自动化研究所系统管理与控制国家重点实验室主任，《智能科学与技术学报》主编。曾任任多个期刊主编，现为IEEE Trans. on Intelligent Vehicles新任主编，欢迎大家投稿！



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IEEE PELS 网络技术论坛

面向新一代电网的电力电子技术和装备新进展

论坛介绍

本次论坛主题聚焦新一代电网的电力电子技术和装备新进展，就电力电子系统、能源互联网、无线电能传输等技术方向的研究及进展进行探讨。

论坛嘉宾



赵争鸣教授

清华大学电机工程与应用电子技术系教授、IEEE Fellow、IET Fellow



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论坛内容

- 人工智能技术在各行各业的落地情况究竟如何？
- 到底有哪些问题是训练一个神经网络能解决的，哪些又不能？
- 强化学习、联邦学习、多模态等技术领域的提出和发展适应了哪些需求？又是谁解决了问题？
- 人工智能真正为人所用的难点在哪里？
- 人类的岗位真的会被人工智能取代吗？
- 我们应该如何与人工智能共生？
- 人工智能带来的非技术性挑战又是什么？

主讲嘉宾



李博 微软人工智能资深算法工程师
北京大学学士，北京航空航天大学计算机硕士
15年+IT行业经验，曾在SUN、EMC等跨国公司担任核心技术研发工作。
研究领域：知识图谱、智能对话、自然语言理解、人工智能行业解决方案。
AI书籍及科普等书，微软智学院创始人，著有《算法第一步》、《机器学习给入门》等书，“智汇AI”微信视频号创始人。

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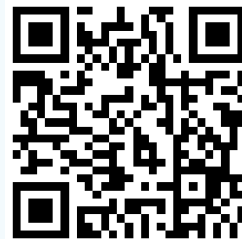
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