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周瑜玲

iGroup中国IEEE产品资深培训师

深圳, 2023.5

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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40万人



- 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
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- IEEE Computer Society
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- IEEE Control Systems Society
- IEEE Dielectrics and Electrical Insulation Society
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- IEEE Systems, Man, and Cybernetics Society
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- 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
- Energy
- Engineering
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- Information Technology
- Medical Devices
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- Petroleum & Gas
- Power Electronics
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- Smart Grid
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- 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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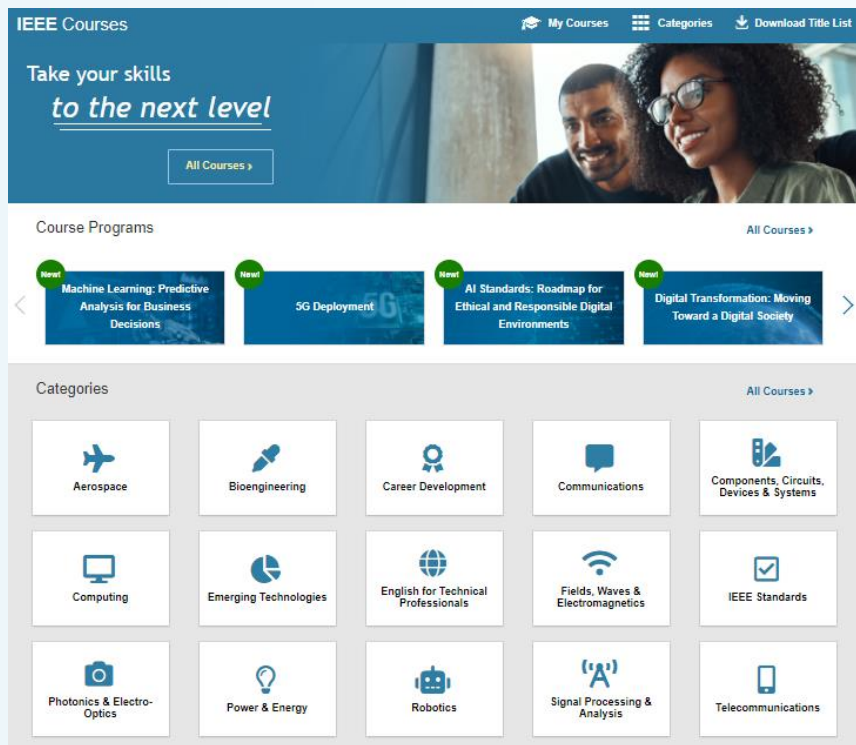
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- High Performance Computing
- Smart Cities: Digital Transformation of Cities
- Digital Privacy for Engineers

2023年计划推出的课程项目

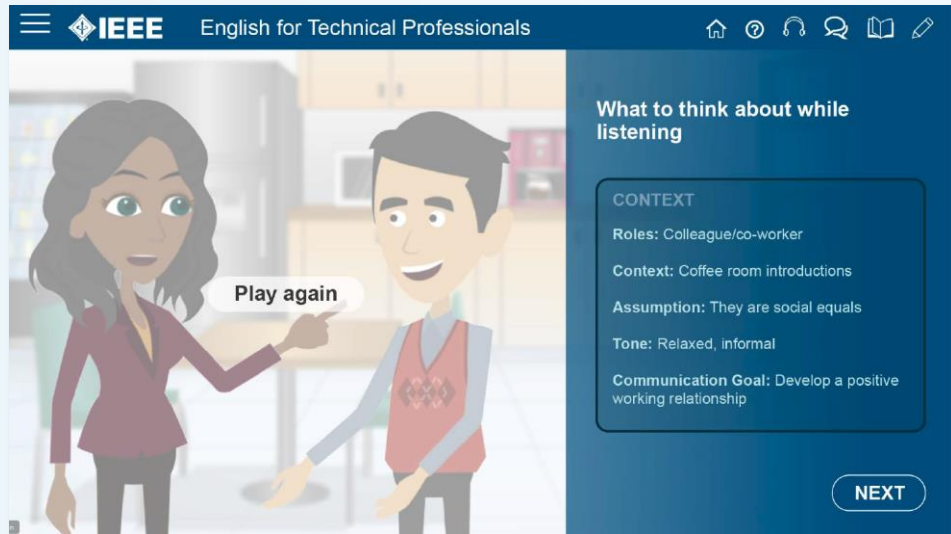
- IEEE 802.11ax: An Overview of High Efficiency Wi-Fi (Wi-Fi 6)
- Internet of Things (IoT) Security
- Configuration Management: Building Secure and Reliable Software
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National Electric Safety Code (NESC) 2023

- 国家电气安全规范 (NESC) 提供了在电力能源行业和公用事业的特定条件下被认为对员工和公众安全所必需的规定
- 凭借全球声誉和影响力，它被认为是最佳电气工程实践的权威来源
- IEEE 每 5 年对其进行一次修订，以使本规范保持最新和可行（注意：2022 版因 Covid-19 大流行而推迟了 1 年）
- 2023 版包含大量更新和关键修订，直接影响电力行业的安全考虑
- 2023 版 NESC 于 2023 年 2 月 1 日生效，2023 年 1 月 1 日可通过 IEL 订阅访问。

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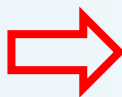


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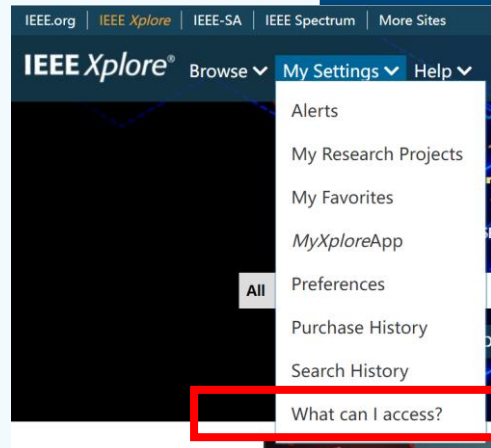
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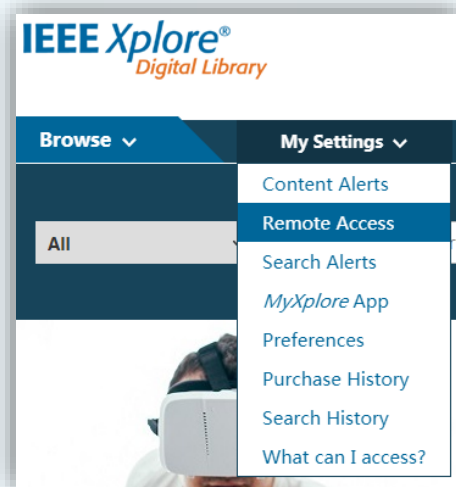
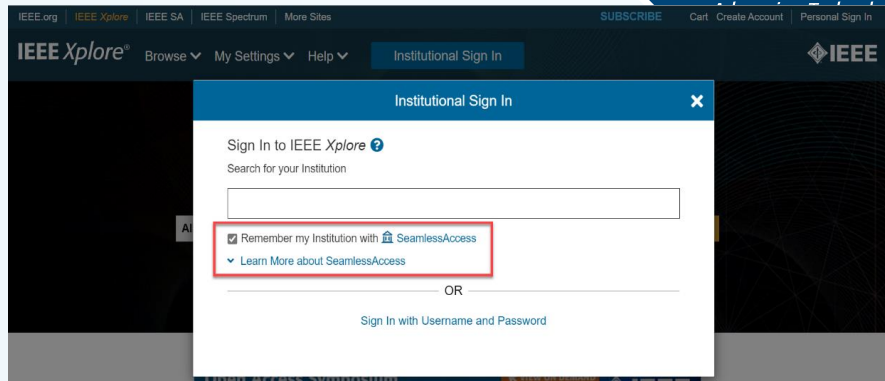
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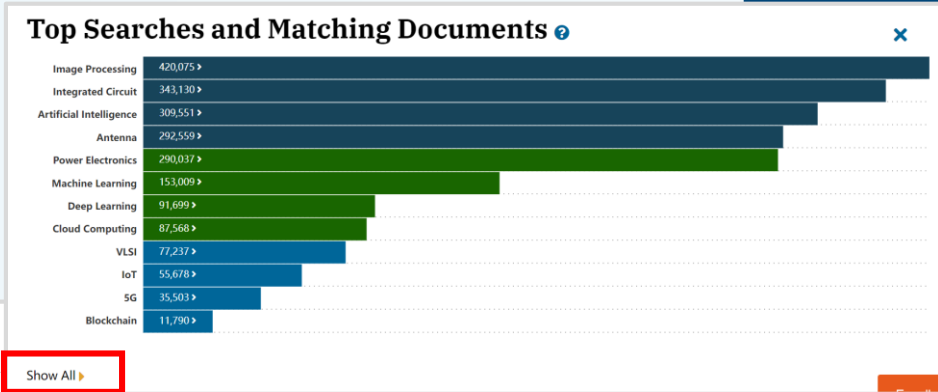
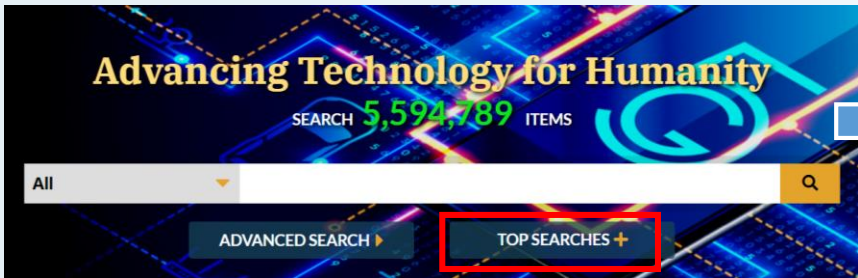
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Publication Topics

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).*

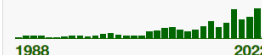
Publications

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5,497

Publications by Year



Co-Authors:

Qammer H. Abbasi
Walid Abdallah
Kiran Isaac Abraham
D. S. Abu-Saymeh
Hamza Abubakar

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21 <small>MAY</small>	2023 IEEE International Symposium on Circuits and Systems (ISCAS) REGISTER ▶ ABOUT ▶ 📅 21-25 MAY 2023 MONTEREY, CALIFORNIA, USA
29 <small>OCT</small>	2023 IEEE/ACM International Conference on Computer Aided Design (ICCAD) CALL FOR PAPERS ▶ ABOUT ▶

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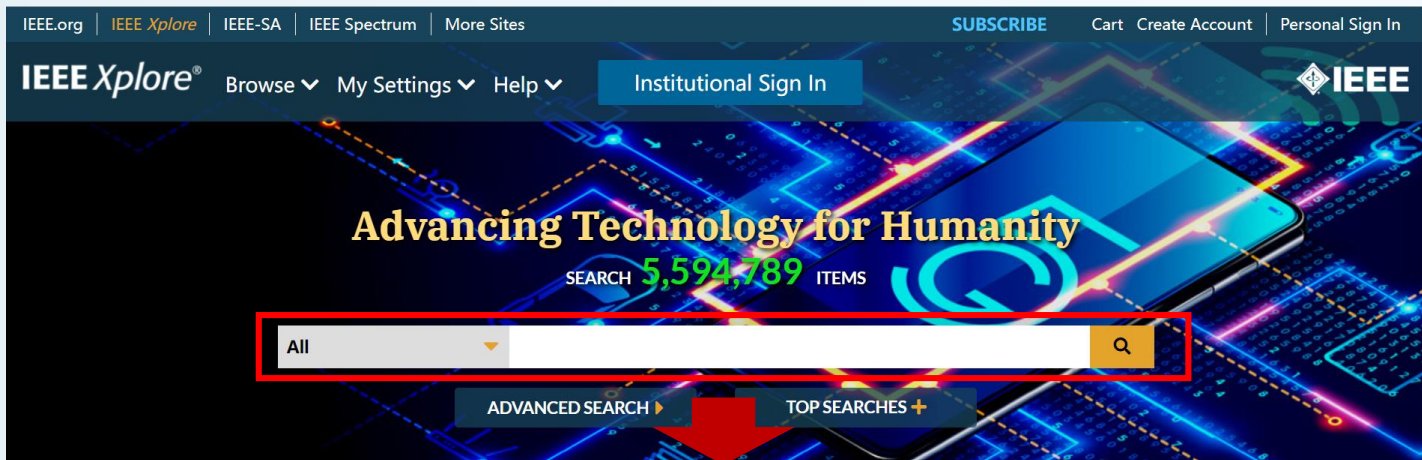
3 - 5 March 2023 | Sydney, Australia | Event Format: Hybrid (In-person and Virtual)

Sponsors: Beihang University; Changan University; IEEE Robotics and Automation Society; Macquarie University, Australia

Field of Interest: Computing and Processing; Robotics and Control Systems

2023 2nd International Conference on Computational Systems and Communication (ICCS) 📅 📍

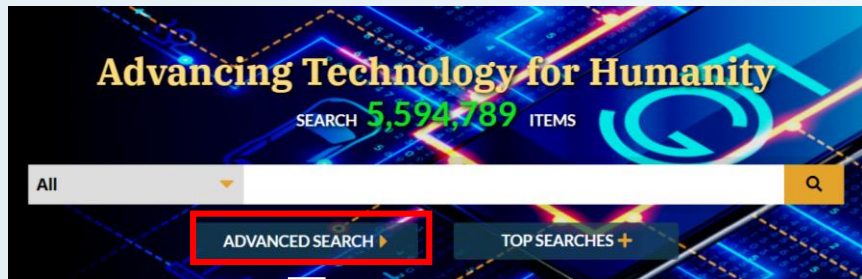
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- Artificial Intelligence Lab., MIT, Cambridge, MA, USA (239)
- School of Computer Science and Engineering, South China University of Technology, Guangzhou, China (213)
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- School of Electrical and Information Engineering, Tianjin University, Tianjin

- IEEE Access (20,116)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (2,446)
- IEEE Transactions on Image Processing (2,385)
- 2011 2nd International Conference on Artificial Intelligence, Management Science and Electronic Commerce (AIMSEC) (1,874)
- IEEE Transactions on Neural Networks and Learning Systems (1,724)
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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** 



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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Abdulahdi Shoufan

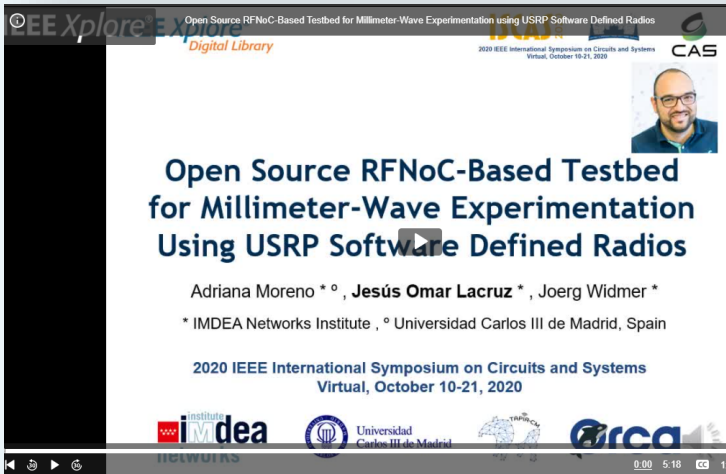
2020 IEEE International Symposium on Circuits and Systems (ISCAS)

Year: 2020 | Conference Paper | Publisher: IEEE

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会议视频



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;

DATASET FILES

- 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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Metadata

Computer Science **Robust MeanShift clustering algorithm**

Claude Cariou

A data clustering algorithm which mixes the classical Mean-Shift algorithm an its blurring version, and uses a nearest neighbor (NN) search. The only parameter is K, the number of NNs.

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Choosing Representation, Mutation, and Crossover in Genetic Algorithms

Alexander Dockhorn; Simon Lucas

IEEE Computational Intelligence Magazine

Year: 2022 | Volume: 17, Issue: 4 | Magazine Article | Publisher: IEEE

Abstract

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Drag and drop queens to change their position. Try to position all queens such that no two queens share the same row, column, or diagonal. Queens that threaten each other will be highlighted in red. In case you found a solution all queens will be highlighted in green.

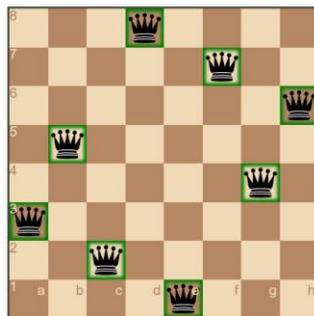


Figure 3:
Introducing the 8-Queens problem.

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HAOYU WANG, YONG LIU, ZHENG HAN, JIANZHANG
2020 International Conference on Artificial Intelligence and Applications (ICAIE)

Year: 2020 | Conference Paper | Publisher: IEEE

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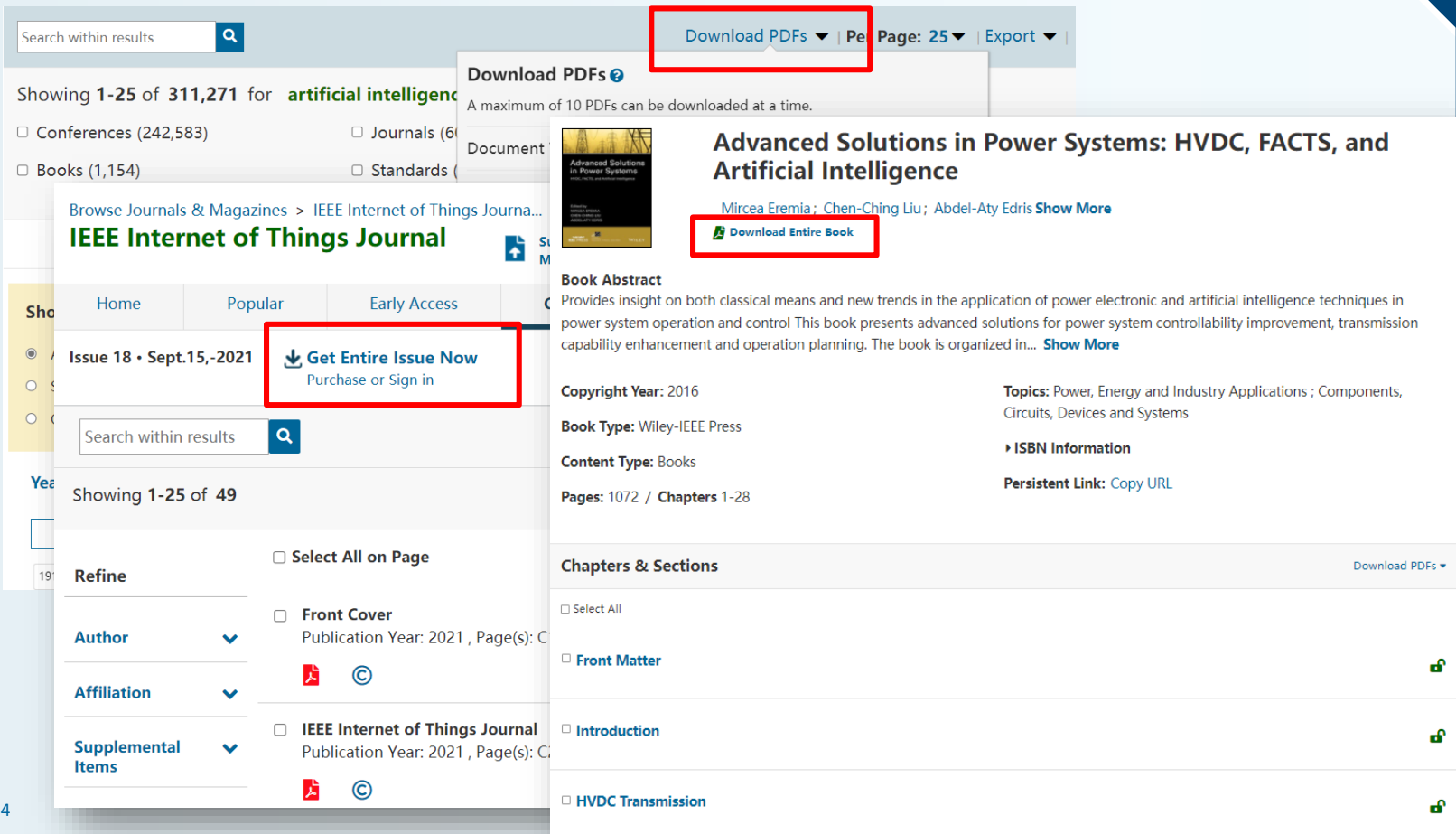
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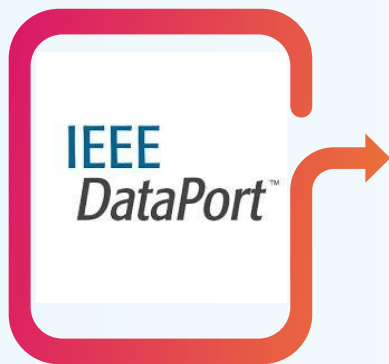
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Abstract

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- II. System Model
- III. Performance Analysis
- IV. Simulation Results
- V. Conclusion

Abstract:

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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Code: MATLAB Index Modulation Based Coordinate Interleaved Orthogonal Designs

```
1 clear all;
2 c1c;
3
4 num_iterations = 1e4;
5 N = 4;
6 M = 4;
7 P_tot_des = 1;
8 alpha = 0.5;
9 sigma2 = 8;
10 SNRdB = 10;
11 mod_type = "PSK";
12 [BER_bob, BER_eve, error_bob, error_eve] = ...
13   CIOD_IM_BER(num_iterations, N, M, P_tot_des, alpha, sigma2,
14   SNRdB, mod_type);
15 fprintf("Bob's BER = %1.6f\n", BER_bob);
16 fprintf("Eve's BER = %1.6f\n", BER_eve);
17 fprintf("Number of Bob's Bit Errors = %d\n", error_bob);
18 fprintf("Number of Eve's Bit Errors = %d\n", error_eve);
```

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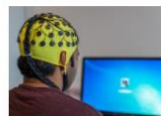
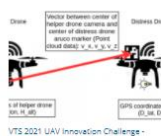
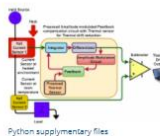
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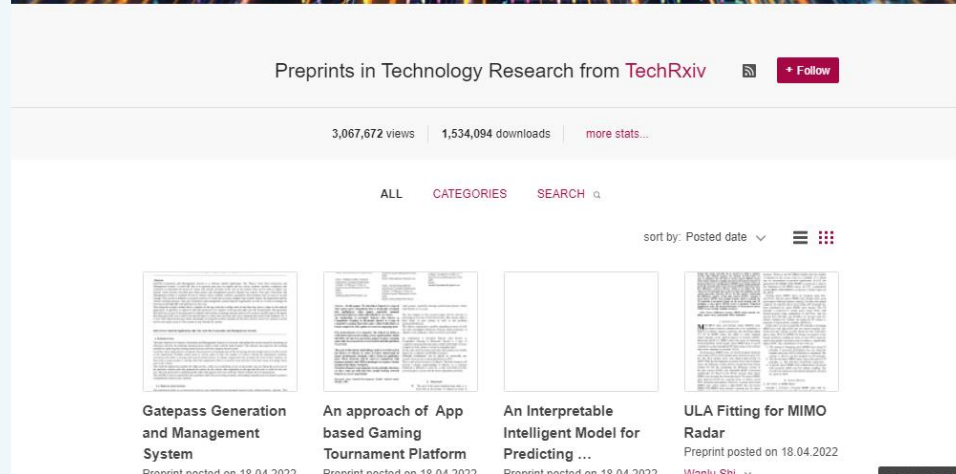
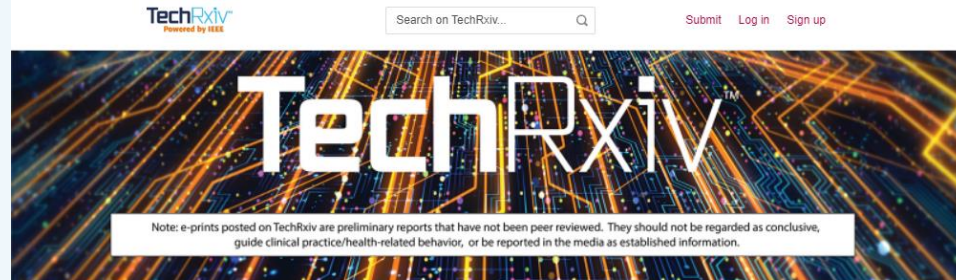


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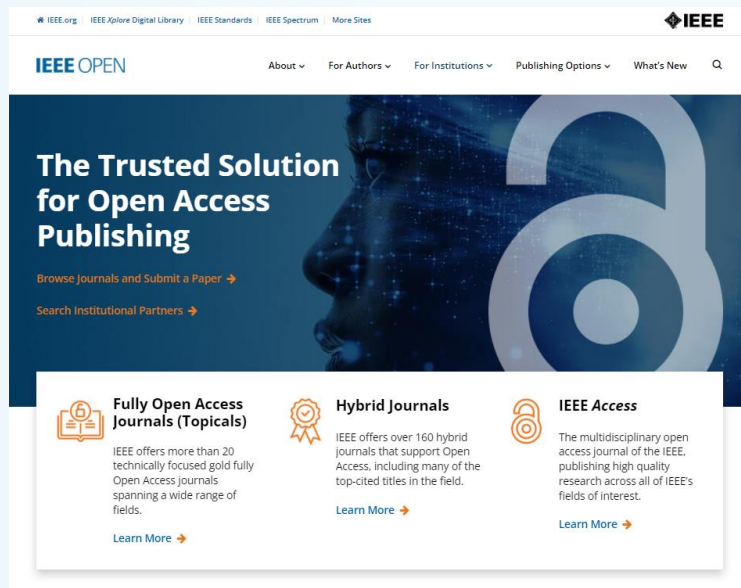
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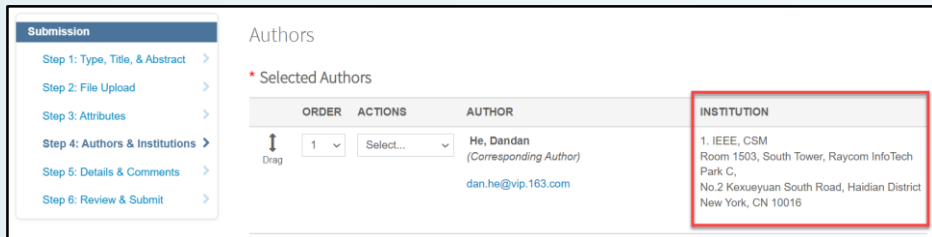
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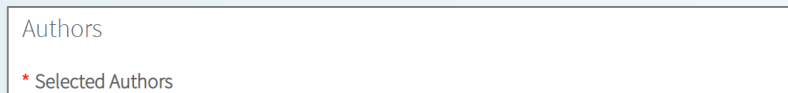
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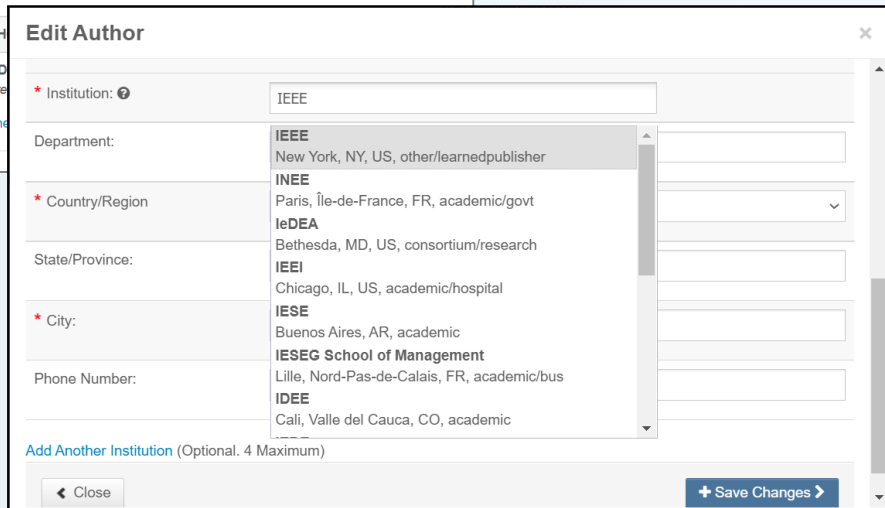
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内容	时间
主题一 (a): IEEE Xplore 助力高效科研, 洞察全球技术趋势	03月16日, 19:00-20:00
主题一 (b): 巧用 IEEE Xplore 进阶检索技巧, 精确定位目标文献	03月23日, 19:00-20:00
主题二: IEEE 学术资源分享, 获悉最新动态	03月30日, 19:00-20:00
主题三: IEEE 步履不停: 领航开放科学之路	04月06日, 19:00-20:00
主题四: IEEE 投稿攻略, 攻克投稿壁垒	04月13日, 19:00-20:00
主题五: IEEE 科技论文发表秘籍	04月20日, 19:00-20:00
主题六: 善用 IEEE 衔接学业与职业发展	04月27日, 19:00-20:00
主题七: IEEE 标准简介	05月11日, 19:00-20:00

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