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學術部講師：鄭琳祺 Sylvia Cheng

目錄

- **IEEE與IEEE Xplore簡介**
- **利用IEEE Xplore優化功能提升檢索效率**
- **個人化設定**

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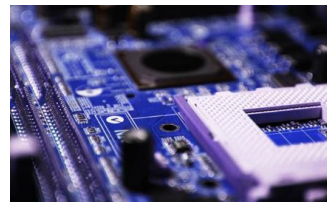
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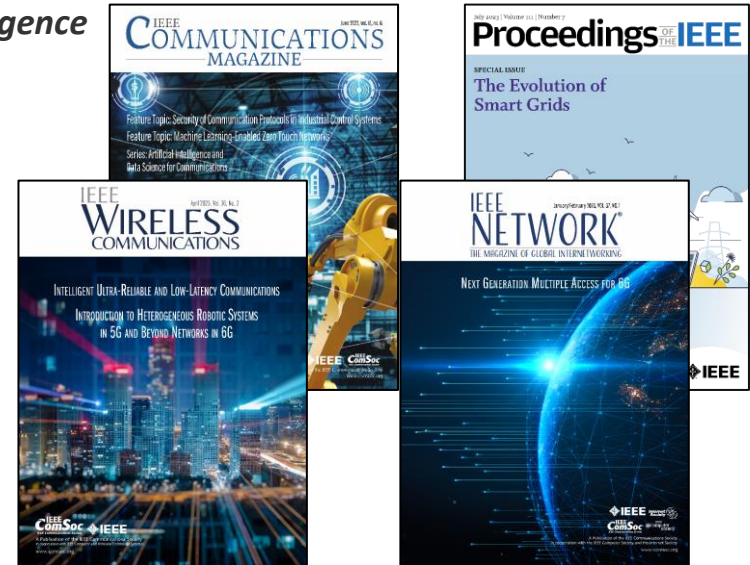
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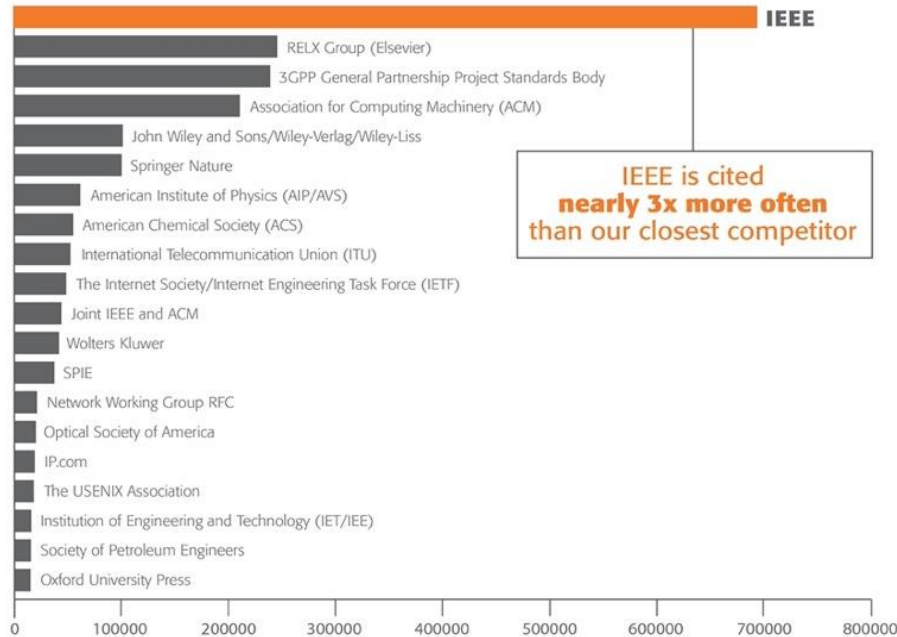
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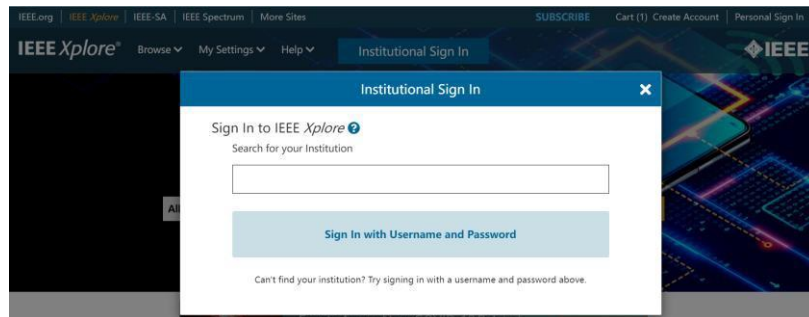
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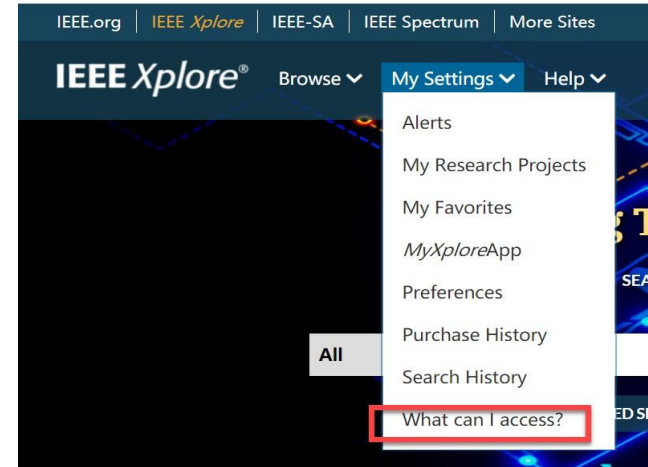
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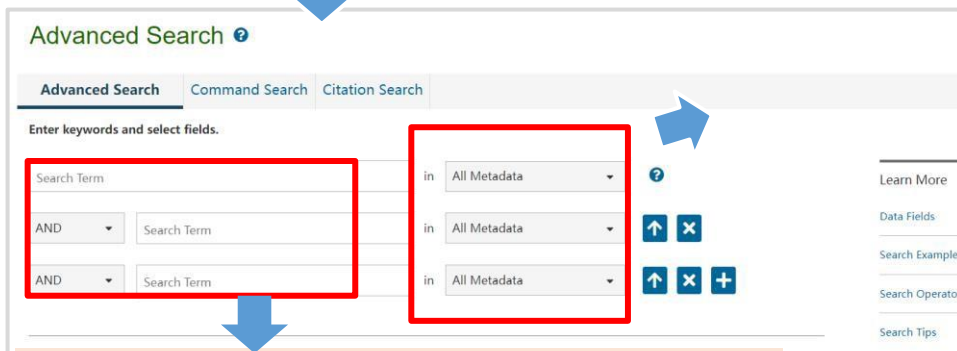
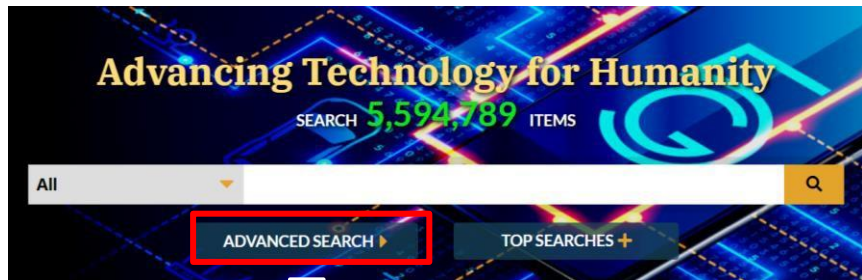
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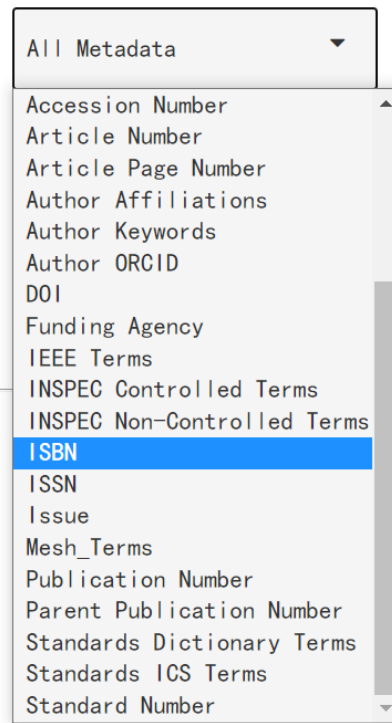
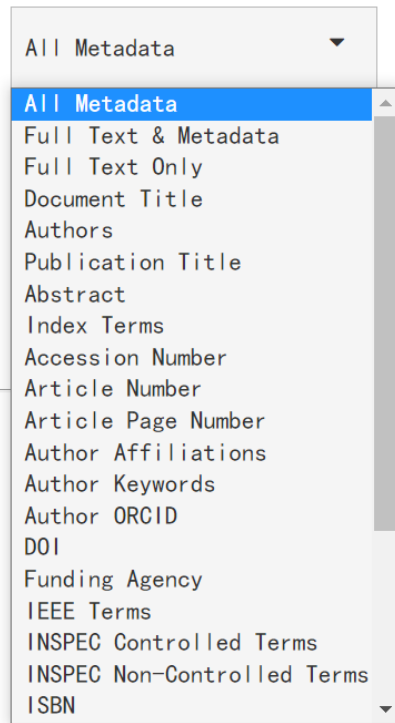
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Shervin Minaee, Yuri Boykov, Fatih Porikli, Antonio Plaza, Nasser Kehtarnavaz, Demetri

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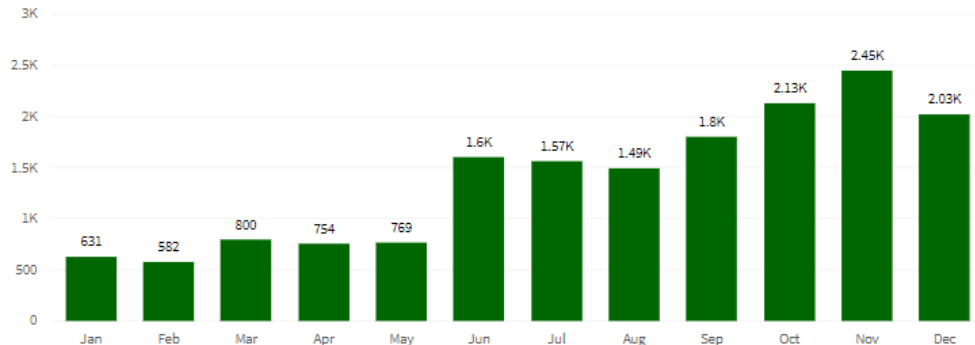
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Abstract:

Image segmentation is a key task in computer vision and image processing with important applications such as scene understanding, medical image analysis, robotic perception, video surveillance, augmented reality, and image compression, among others, and numerous segmentation algorithms are found in the literature. Against this backdrop, the broad success of deep learning (DL) has prompted the development of new image segmentation approaches leveraging DL models. We provide a comprehensive review of this recent literature, covering the spectrum of pioneering efforts in semantic and instance segmentation, including convolutional pixel-labeling networks, encoder-decoder architectures, multiscale and pyramid-based approaches, recurrent networks, visual attention models, and generative models in adversarial settings. We investigate the relationships, strengths, and challenges of these DL-based segmentation models, examine the widely used datasets, compare performances, and discuss promising research directions.

Published in: IEEE Transactions on Pattern Analysis and Machine Intelligence (Volume: 44 , Issue: 7, 01 July 2022)

Page(s): 3523 - 3542

INSPEC Accession Number: 21762516

Date of Publication: 17 February 2021

DOI: 10.1109/TPAMI.2021.3059968

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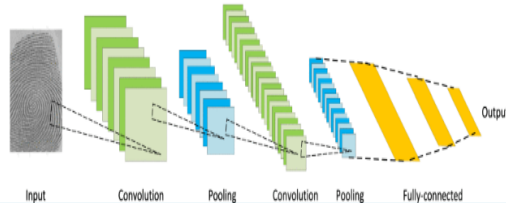
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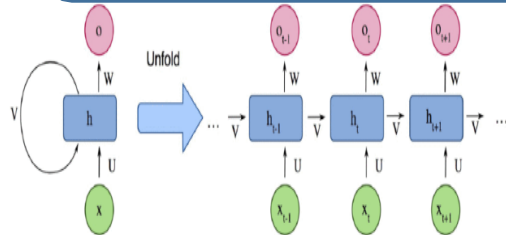
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seed generation technique with deep reinforcement learning that learns to solve the interactive segmentation problem. Object-Contextual Representations (OCR) [42] learns object regions and the relation between each pixel and each object region, augmenting the representation pixels with the object-contextual representation. Additional models and methods include BoxSup [119], Graph Convolutional Networks (GCN) [120], Wide ResNet [121], Exfuse

120. C. Peng, X. Zhang, G. Yu, G. Luo and J. Sun, "Large kernel matters — Improve semantic segmentation by global convolutional network", *Proc. IEEE Conf. Comput. Vis. Pattern Recognit.*, pp. 4353-4361, 2017.

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Semantic Pr [129],
gated shape [120], Graph Convolutional Networks (GCN) [120]

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Mean Pixel Accuracy (MPA) is an extension of PA, in which the ratio of correct pixels is computed in a per-class manner and then averaged over the total number of classes

$$MPA = \frac{1}{K + 1} \sum_{i=0}^K \frac{P_{ii}}{\sum_{j=0}^K P_{ij}} \quad (2)$$

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\begin{equation*} \text{MPA} = \frac{1}{K+1} \sum_{i=0}^K \frac{p_{ii}}{\sum_{j=0}^K p_{ij}}. \tag{2} \end{equation*}
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Robust Face Recognition via Sparse Representation

Publisher: IEEE

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John Wright; Allen Y. Yang; Arvind Ganesh; S. Shankar Sastry; Yi Ma [All Authors](#)

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- 4 Experimental Verification
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We consider the problem of face recognition under varying illumination, as well as occlusion. We propose a linear regression model based on sparse representation to solve this problem. Based on a

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2. R. Szeliski, Computer Vision: Algorithms and Applications, Berlin, Germany:Springer, 2010.
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3. D. L. Fleet and J. Ponce, Computer Vision: A Modern Approach, Upper Saddle River, NJ, USA:Prentice Hall, 2002.
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4. N. Otsu, "A threshold selection method from gray-level histograms", *IEEE Trans. Syst. Man Cybern.*, vol. SMC-9, no. 1, pp. 62-66, Jan. 1979.
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2. Nagaraju Y, Venkatesh, Venugopal K R, "Deep Learning based Semantic Segmentation to Detect Ripened Strawberry Guava Fruits", *2022 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)*, pp.1-6, 2022.
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Image segmentation, Computer architecture, Semantics, Deep learning, Computational modeling, Generative adversarial networks, Logic gates

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augmented reality, computer vision, data compression, image coding, image processing, image segmentation, learning (artificial intelligence), medical image processing, video surveillance

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image processing, medical image analysis, image compression, numerous segmentation algorithms, deep learning, image segmentation, semantic instance segmentation, DL-based segmentation models

Author Keywords

Image segmentation, deep learning, convolutional neural networks, encoder-decoder models, recurrent models, generative models, semantic segmentation, instance segmentation, panoptic segmentation, medical image segmentation

MeSH Terms

文章細節頁面- 作者介紹

Enabling AI in Future Wireless Networks: A Data Life Cycle Perspective

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

Dinh C. Nguyen ; Peng Cheng

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 **Dinh C. Nguyen**
School of Engineering, Deakin University, Geelong, VIC, Australia

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Dinh C. Nguyen (Graduate Student Member, IEEE) is currently pursuing the Ph.D. degree with the School of Engineering, Deakin University, Geelong, VIC, Australia. His research interests focus on machine learning, deep reinforcement learning, mobile edge/cloud computing, blockchain, Internet of Things, and network security and privacy. He is currently working on machine learning, reinforcement learning and blockchain for Internet of Things, and 5G networks. He has been a recipient of the prestigious Data61 PhD scholarship, CSIRO, Australia.

 **Peng Cheng**
La Trobe University, Melbourne, VIC, Australia
School of Electrical and Information Engineering, University of Sydney, Sydney, NSW, Australia

Peng Cheng (Member, IEEE) received the B.S. and M.S. degrees (with great Hons.) in communication and information systems from the University of Electronic Science and Technology of China, Chengdu, China, in 2006 and 2009, respectively, and the Ph.D. degree from Shanghai Jiao Tong University, Shanghai, China, in 2013. From

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Dinh C. Nguyen  

Affiliation
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Publication Topics
data privacy, Internet of Things, mobile computing, blockchains, health care, learning (artificial intelligence), cloud computing, artificial intelligence, Big Data, Internet, Markov

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Biography
Dinh C. Nguyen (Member, IEEE) is currently an Associate Professor at Deakin University, Geelong, VIC, Australia. He has published over 100 papers in top-tier IEEE journals and conferences including IEEE Transactions on Communications Magazine, IEEE Transactions on Information Theory, IEEE GLOBECOM, ICC, and CCGri. He is also interested in federated learning, deep reinforcement learning, and is a recipient of the prestigious Data Science Research Award. He is a frequent speaker at top-tier conferences including IEEE International Conference on Data Mining (ICDM), IEEE International Conference on Data Science in Computer and Communications (ICDSCC), IEEE International Conference on Data Science in Cyber Security (ICDSCS), IEEE International Conference on Data Science in Engineering (ICDSE), IEEE International Conference on Data Science in Healthcare (ICDSH), IEEE International Conference on Data Science in Law (ICDSL), IEEE International Conference on Data Science in Marketing (ICDSM), IEEE International Conference on Data Science in Social Media (ICDSM), IEEE International Conference on Data Science in Transportation (ICDST), IEEE International Conference on Data Science in Urban Computing (ICDSU), IEEE International Conference on Data Science in Visual Analytics (ICDSVA), IEEE International Conference on Data Science in Web Analytics (ICDSWA), IEEE International Conference on Data Science in Web Mining (ICDSWM), IEEE International Conference on Data Science in Web Services (ICDSWS), IEEE International Conference on Data Science in Web Systems (ICDSWS), IEEE International Conference on Data Science in Web Systems (ICDSWS), IEEE International Conference on Data Science in Web Systems (ICDSWS).

Publications 19 **Citations** 387

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2020	2
2021	15
2022	1

Co-Authors:

- Prabadevi B.
- Peng Cheng
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Media (36,317)

Video (897)

Datasets (451)

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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



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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
Abdulahadi Shoufan
2020 IEEE International Symposium on Circuits and Systems (ISCAS)
Year: 2020 | Conference Paper | Publisher: IEEE

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會議影音檔

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

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

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

Adriana Moreno * °, Jesús Omar Lacruz *, Joerg Widmer *

* IMDEA Networks Institute , ° Universidad Carlos III de Madrid, Spain

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

Transcript

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

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

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

[01:06] JESUS OMAR LACRUZ The main problem is the physical layer information. On the other hand, commercial prices that could be not affordable for all research groups that USRPs has proven efficacy in sub-6-gigahertz networks, millimeter-wave systems will bring the desired flexibility, a wide online open-source community.

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

檢索結果頁面：研究補充資料(3/4)

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- Datasets (451)
- Code (356)
- Conference Location

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



Citation Author(s): Yongxiang Yao
Yongjun Zhang
Submitted by: Yongxiang Yao
Last updated: Fri, 03/11/2022 - 01:24
DOI: 10.21227/2raa-sp12
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Categories: Image Processing
Keywords: Multi-modal Remote Sensing Image; Matching; Co-occurrence Filter; New image gradient

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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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DOCUMENTATION

Introduction to the "CoFSM" dataset: (16.09 KB)

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Code (356)


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** 

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)

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 - run 191 B**
- data Manage Datasets 0 B
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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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Publisher: IEEE

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Alexander Dockhorn; Simon Lucas All Authors



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Choosing Representation, Mutation, and Crossover in Genetic Algorithms

An interactive article on using genetic algorithms to solve the 8-Queens problem. Learn how the choice of representation and operators affects your genetic algorithm.

Authors:
Alexander Dockhorn | Leibniz University, Hannover
Simon Lucas | Queen Mary University, London

Date of Publication
Nov. 26, 2021

Indicates interactive elements

Contents:
I. INTRODUCTION | II. REPRESENTATION | III. MUTATION | IV. CROSSOVER | V. FROM THEORY TO PRACTICE | VI. CONCLUSION

I. INTRODUCTION

Evolutionary algorithms (EAs) can be used to solve plenty of tasks using the power of evolutionary optimization. They belong to the family of biologically inspired meta-heuristics and adopt principles from biological evolution to modify, select and iteratively improve a set of candidate solutions (also called a population) to an optimization problem. While many types of EAs exist, this work will

Do you think you are up to the task of solving the puzzle on your own?
Go ahead and try it yourself to find a solution:



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.

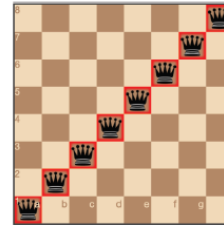


Figure 3:
Introducing the 8-Queens problem.

II. REPRESENTATION

An individual needs to represent the solution that can be applied to the problem. Here, it needs to encode the positions of queens on a chessboard. Let's first think, about the basic properties of our task and its likely solutions:

1. a chessboard offers 64 fields arranged in an 8x8 grid.
2. the solution consists of exactly 8 queens.
3. each row can include only one queen; otherwise, they would threaten each other.
4. each column can include only one queen; otherwise, they would threaten each other.
5. each diagonal can include only one queen; otherwise, they would threaten each other.

Such requirements can be used to further constrain the optimization task. Each added constraint will make some of the unconstrained solution candidates invalid (since they violate the constraint) and therefore directly impact the size of the search space. In the following, a set of optimization tasks constructed by considering combinations of the above constraints will be considered. For each of those, we will be able to identify different decision variables (phenotype) and search for suitable encodings (genotype). Overall, this results in different representations that can be constructed for solving the 8-Queens problem, which allows their comparison with each other.

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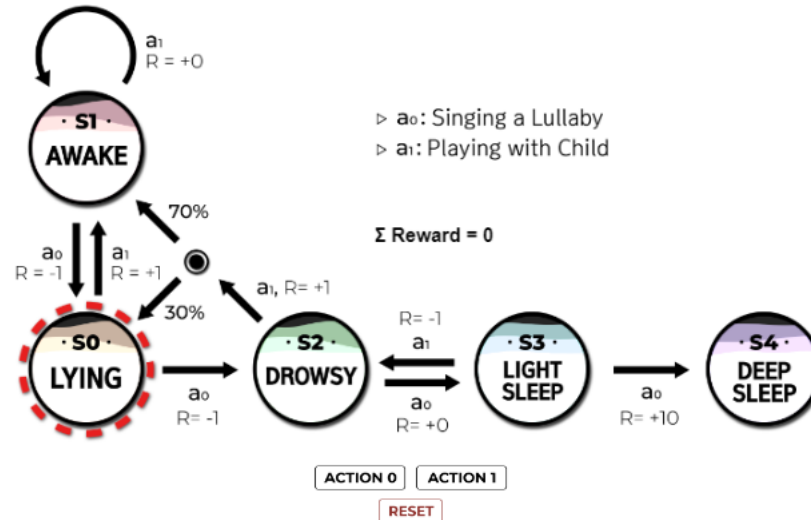


Figure 6:

Example of an MDP for improving a child's sleep quality.

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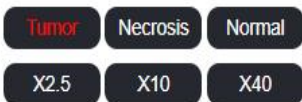
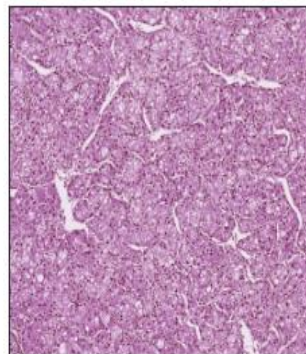
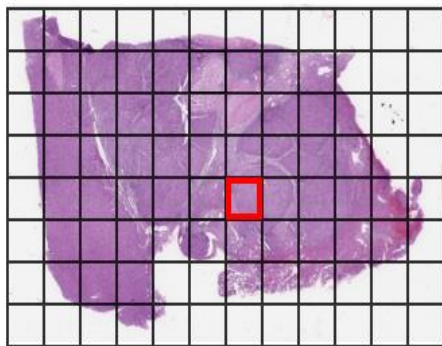



Figure 5.

Characteristics of the three kinds of regions at different magnifications.

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2016 China International Conference on Electricity Distribution (CICED)
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HAOYU WANG; YONG LIU; ZIFENG HAN; JIANZHANG WU

2020 International Conference on **Artificial Intelligence** and Education (ICAIE)

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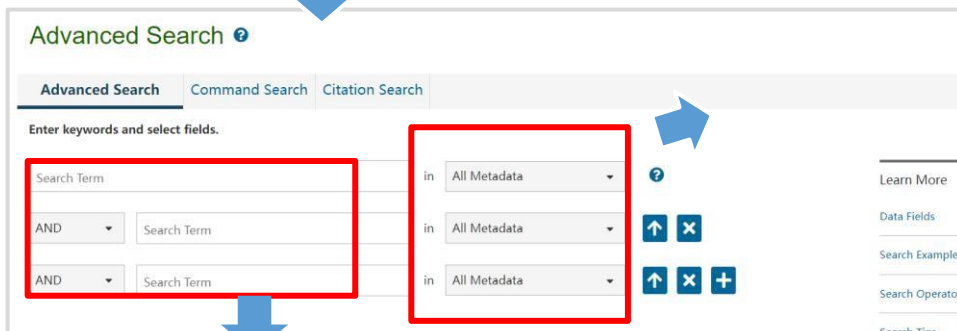
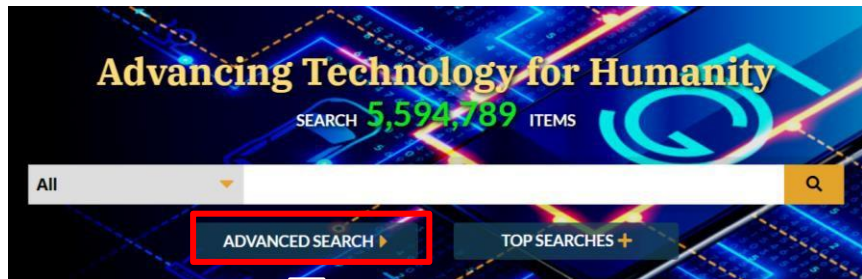


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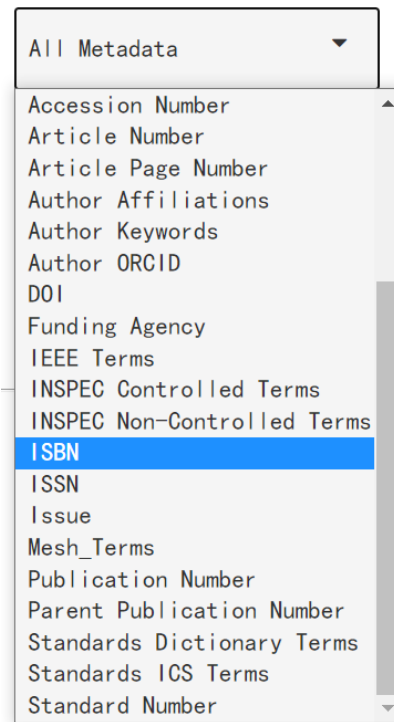
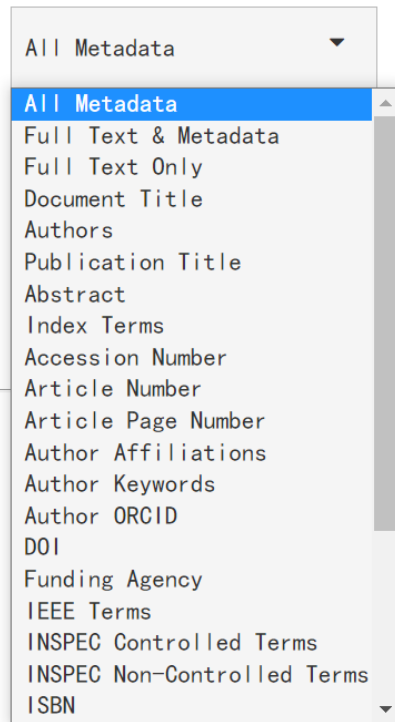
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- The effect of recovery on NBTI of MOSFETs
H. Reisinger, R.P. Møller, P.J. Winzer, G. Grassler, C. Schlunder
2008 IEEE International Integrated Circuits Conference (ICCT)
Year: 2008 | Conference Paper | Patent (1) | Cited by: Papers (11)

Abstract (html) PDF (3327)

- Analysis of NBTI Degradation-Induced Threshold Voltage Shifts
H. Reisinger; O. Blank; W. Heinrigs
2006 IEEE International Reliability Physics Conference (IRPS)
Year: 2006 | Conference Paper | Patent (1) | Cited by: Papers (161) | Patents (4)

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H. Reisinger

Also published under: Hans Reisinger, Reisinger

Affiliation

Infineon Technologies AG
Neubiberg
Germany,85579

Publication Topics

MOSFET, semiconductor device reliability, semiconductor device models, silicon compounds, hot carriers, negative bias temperature instability, wide band gap

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Biography

Hans Reisinger received the Diploma degree in physics and the Ph.D. from the Technical University of Munich in 1979 and 1982, respectively. In 1986, he joined Infineon Technologies AG, where he was involved in thin dielectrics and MOSFET fabrication and characterization. He is currently working in the Infineon Technology Department, mainly working on the problems of threshold voltage instabilities of MOSFETs. (Based on document published on 26 October 2018).

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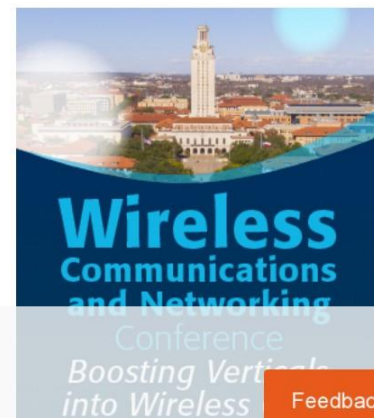
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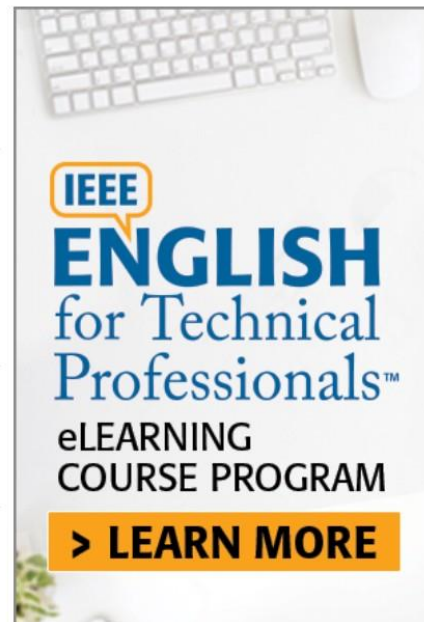
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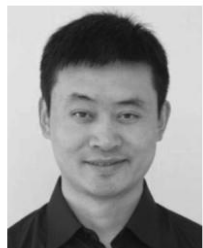
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The screenshot displays a research database interface with search results for 'application NEAR/5 secur*'. The interface includes a search bar, filters for document types (Conferences, Journals, Standards, Early Access Articles), and a 'Show' section with radio buttons for 'All Results', 'Subscribed Content', and 'Open Access Only'. A 'Year' filter is set to 'Range' from 1885 to 2022. The search results list several papers, including 'A Security Framework for Input' and 'Holistic Web Application Security'. A 'My Research Projects' overlay is active, showing a dropdown menu with 'Add to Project', 'Application Security', and 'Cloud Computing'. The 'Application Security' option is selected. Below the dropdown is a text input field for 'Add Document Tags' with a character limit of 50. The overlay also shows '2 Paper Citations' and '242 Full Text Views'. A 'Save to' dropdown menu is visible at the bottom right, with 'My Research Projects' selected. The main search results page shows a paper titled 'Passive localization of signal source based on UAVs in complex environment' by Pengwu Wan et al., published by IEEE.

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2008 Second International Conference on
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Year: 2008 | Conference Paper |
Cited by: Papers (2) | Patents (1)

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Holistic Web Application Security
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- accuracy

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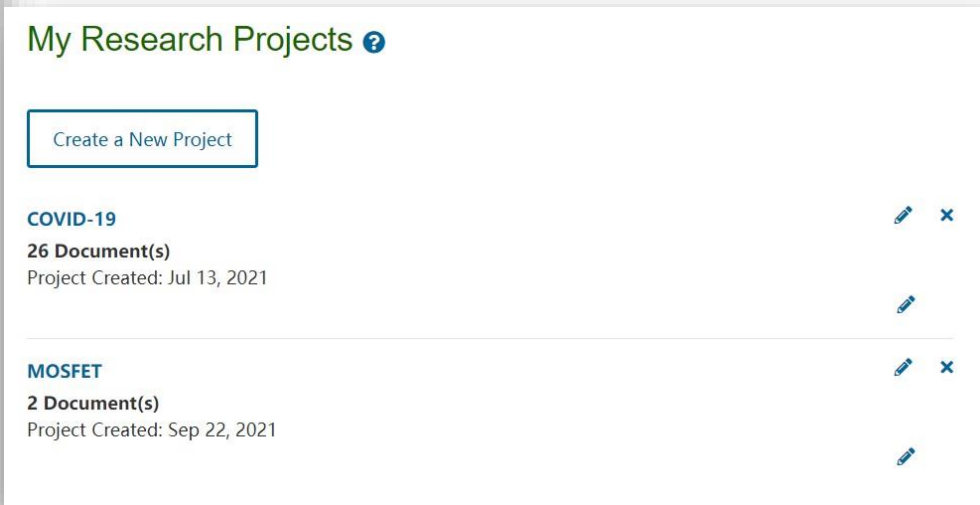
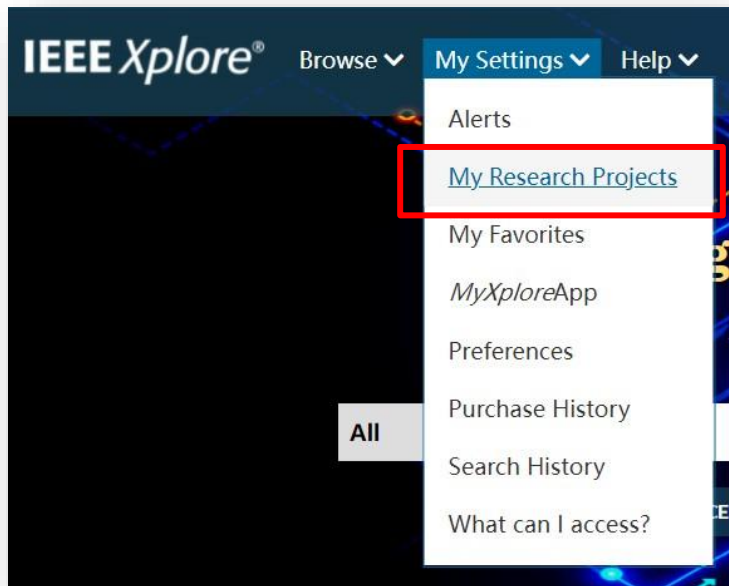
Pengwu Wan; Qiongdan Huang; Guangyue Lu; Jin Wang; Qianli Yan; Yufei Chen All Authors

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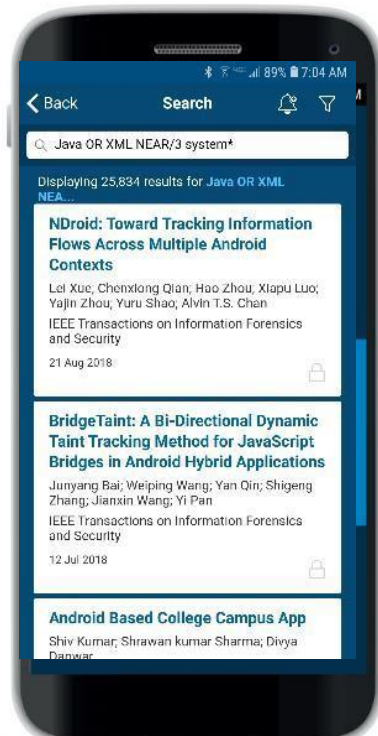
Abstract
Abstract: For the influence caused by multipath fading and multipath transmission, it is challenging to accurately localize a moving signal source in complex environment by using the wireless sensor network (WSN) or the

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