



IEEE Xplore 檢索技巧與熱門研究追蹤

何丹丹
IEEE大中華區客戶與資訊經理

目錄

- IEEE與IEEE Xplore簡介
- 效率檢索科技文獻
- 搜尋追蹤熱門主題



**the Institute of Electrical
and Electronics Engineers**

電氣電子工程師學會

IEEE, pronounced "Eye-triple-E"



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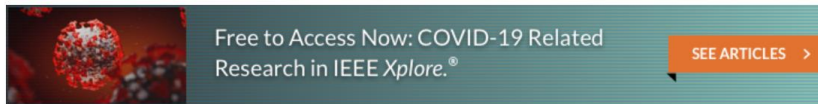
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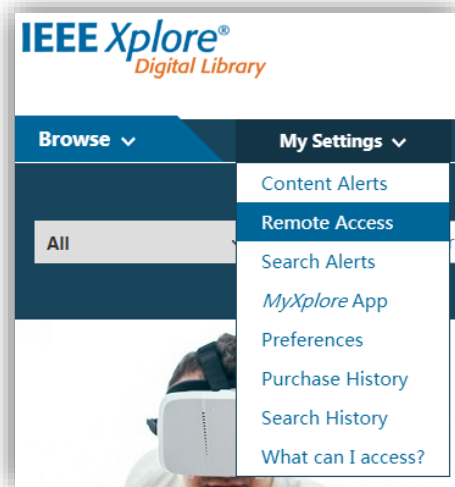
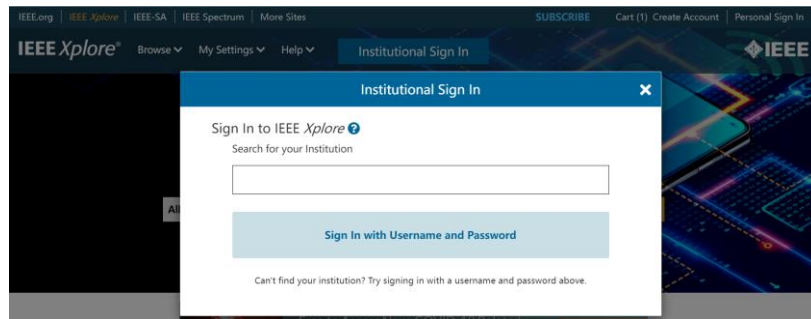
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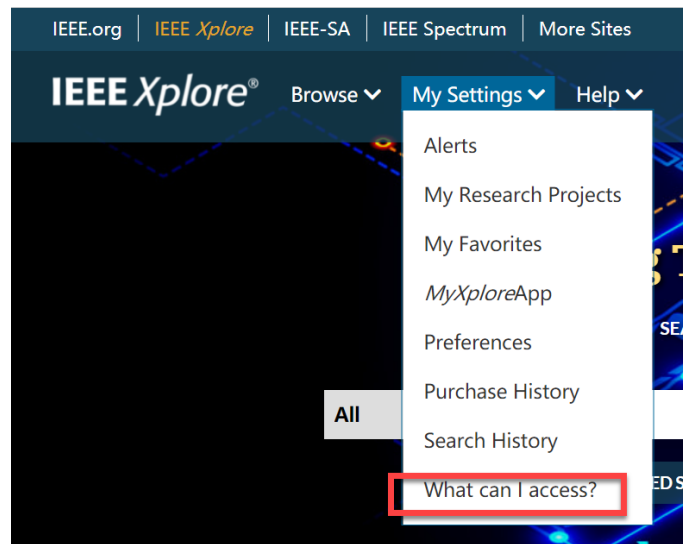
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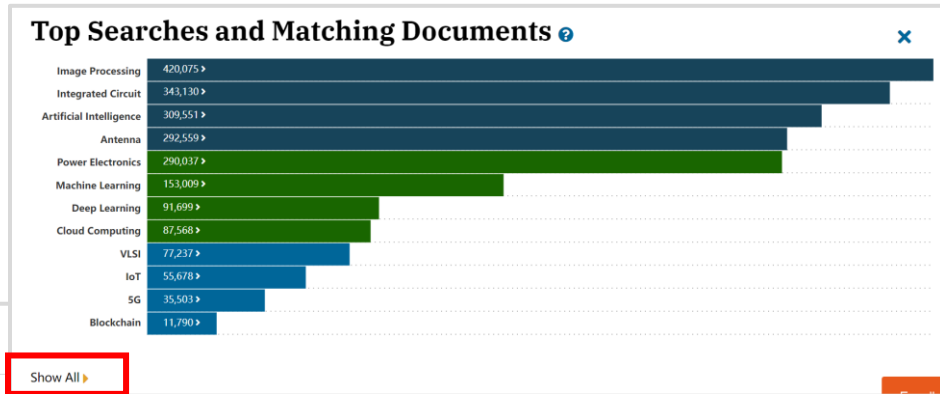
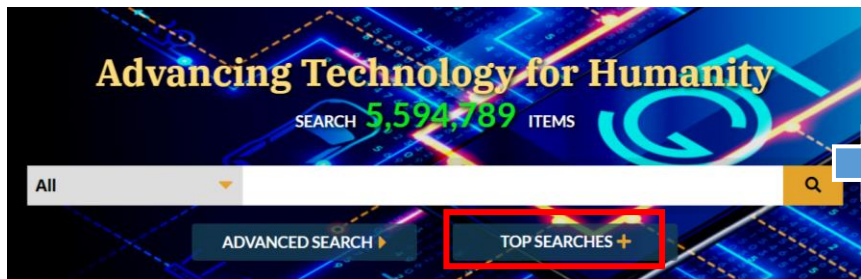
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Biography

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).

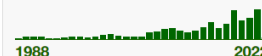
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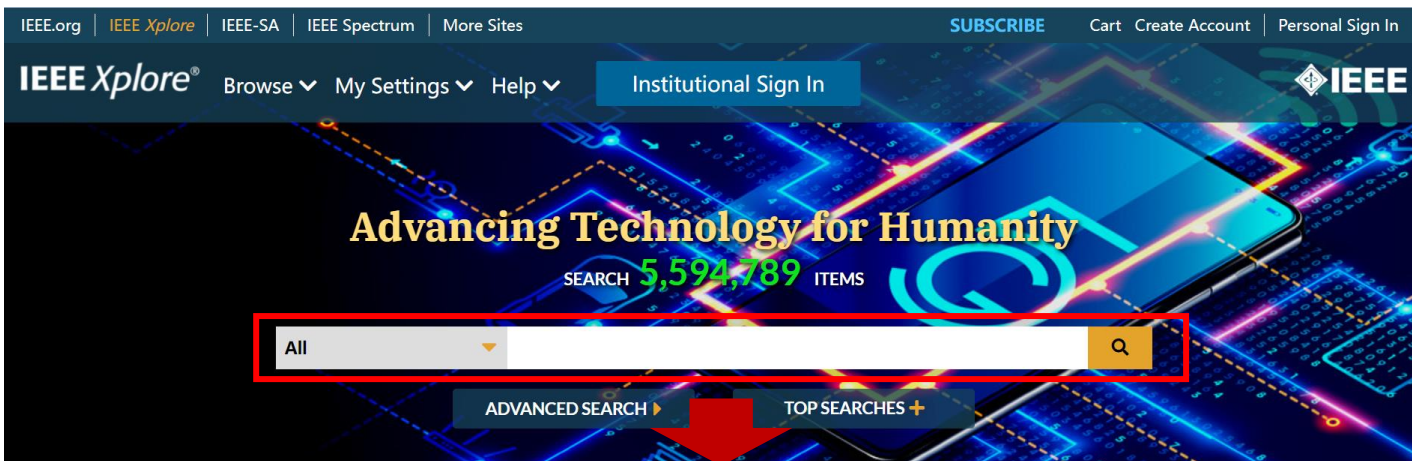
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15 - 17 September 2021 | Penghu, Taiwan

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

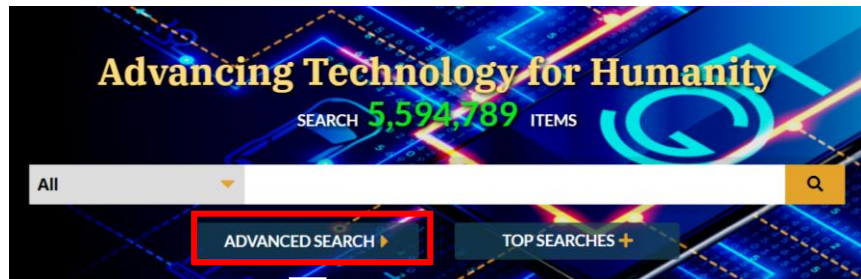
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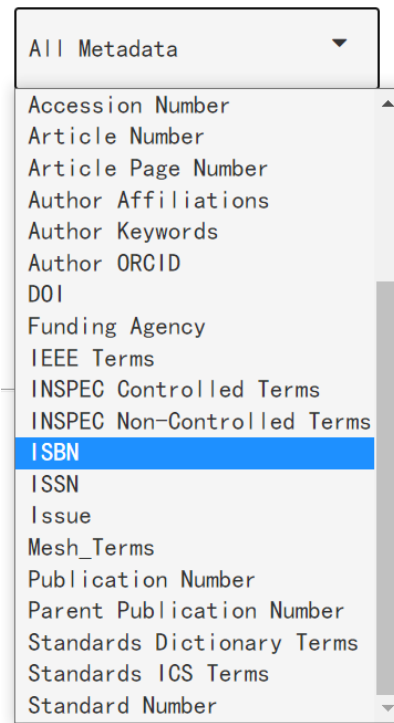
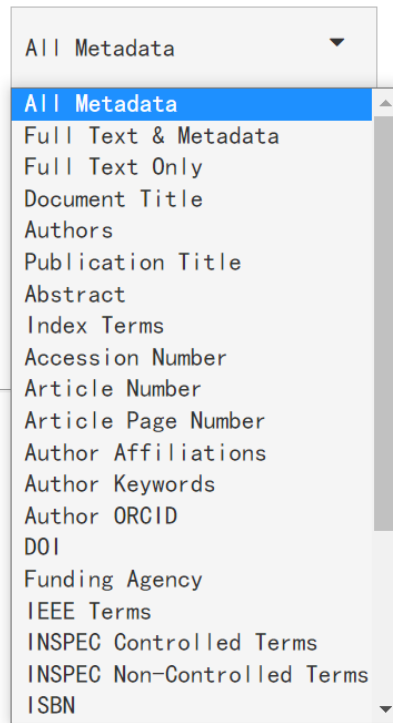
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HAOYU WANG; YONG LIU; ZIFENG HAN; JIANZHANG WU
2020 International Conference on Artificial Intelligence and Education (ICAIE)
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文章細節頁面

Robust Face Recognition via Sparse Representation

John Wright; Allen Y. Yang; Arvind Ganesh; S. Shankar Sastry; Yi Ma
IEEE Transactions on Pattern Analysis and Machine Intelligence
Year: 2009 | Volume: 31, Issue: 2 | Journal Article | Publisher: IEEE
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- 2 Classification Based on Sparse Representation
- 3 Two Fundamental Issues in Face Recognition
- 4 Experimental Verification
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Abstract:

We consider the problem of automatically recognizing human faces from frontal views with varying expression and illumination, as well as occlusion and disguise. We cast the recognition problem as one of classifying among multiple linear regression models and argue that new theory from sparse signal representation offers the key to addressing this problem. Based on a sparse representation computed by ℓ_1 -minimization, we propose a general classification algorithm for (image-based) object recognition. This new framework provides new insights into face recognition: feature extraction and robustness to occlusion. For feature extraction, the recognition problem is properly harnessed, the choice of features is no longer critical. Whether the number of features is sufficiently large and whether the sparse representation is correctly computed. Unconventional features such as downsampled images and random projections perform just as well as conventional features such as eigenfaces and Laplacianfaces, as long as the dimension of the feature space surpasses certain threshold, predicted by the theory of sparse representation. This framework can handle errors due to occlusion and corruption uniformly by exploiting the fact that these errors are often sparse with respect to the standard (pixel) basis. In the recognition algorithm, we handle errors due to occlusion and corruption. We conduct extensive experiments on face recognition and corroborate the above claims.

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Published in: IEEE Transactions on Pattern Analysis and Machine Intelligence (Volume: 31, Issue: 2, Feb. 2009)

Page(s): 210 - 227

INSPEC Accession Number: 10370800

Date of Publication: 03 April 2008

DOI: 10.1109/TPAMI.2008.79

► ISSN Information:

Publisher: IEEE

PubMed ID: 19110489

SECTION 1 Introduction

Parsimony has a rich history as a guiding principle for inference. One of its most celebrated instantiations,

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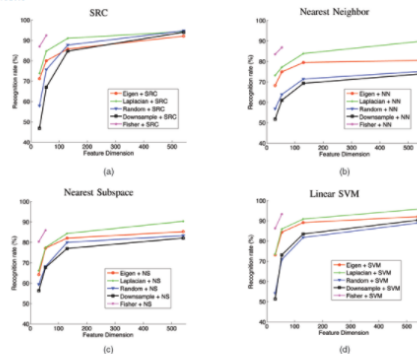
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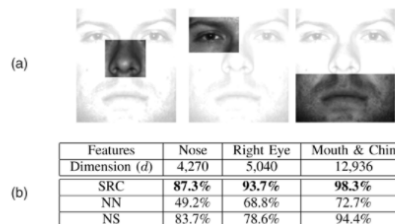


Recognition rate (%)

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Fig. 10.

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considered task. It consists of 30 different scene categories shown in Fig. 1 and contains more than 11K images that were crawled from Flickr¹ using the same setup as in [12]. All photos were inspected

12. Andrey Ignatov, Nikolay Kobyshev, Radu Timofte, Kenneth Vanhoey and Luc Van Gool, "Wespe: weakly supervised photo enhancer for digital cameras", *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops*, pp. 691-700, 2018.

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faces but also

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positions.

This motivates us to seek the sparsest solution to $y = Ax$, solving the following optimization problem:

$$(\ell^0): \quad \hat{x}_0 = \arg \min \|x\|_0 \quad \text{subject to} \quad Ax = y, \quad (5)$$

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$(\ell^0): \quad \hat{x}_0 = \arg \min \|x\|_0 \quad \text{subject to} \quad Ax = y$

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Footnotes

Abstract:

We consider the problem

illumination, as well as oc

linear regression models

References

Citation Map

1. M. Hansen and B. Yu, "Model Selection and the Minimum Description Length Principle", *J. Am. Statistical Assoc.*, vol. 96, pp. 746-774, 2001.
[CrossRef](#) [Google Scholar](#)
2. A. d'Aspremont, L.E. Ghaoui, M. Jordan and G. Lanckriet, "A Direct Formulation of Sparse PCA Using Semidefinite Programming", *SIAM Rev.*, vol. 49, pp. 434-448, 2007.
[CrossRef](#) [Google Scholar](#)
3. K. Huang and S. Aiyente, *Neural Information Processing Systems*, 2006.
[Google Scholar](#)
4. V. Vapnik, *The Nature of Statistical Learning Theory*, 2000.
[CrossRef](#) [Google Scholar](#)
5. P. Belhumeur, J. Hespanha and D. Kriegman, "Eigenfaces versus Fisherfaces: Recognition Using Class Specific Linear Projection", *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 19, no. 7, pp. 711-720, July 1997.
[View Article](#) [Full Text: PDF \(2849KB\)](#) [Google Scholar](#)
6. X. He, S. Yan, Y. Hu, P. Niyogi and H. Zhang, "Face Recognition Using Laplacianfaces", *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 27, no. 3, pp. 328-340, Mar 2005.

參考文獻:

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Sparse regression and
object recognition

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1. Shuo Yang, Jie Xu, Ming-Hi Wang, "Object tracking using random sparse appearance model", *Electronics Letters*, vol. 49, no. 5, pp. 337-338, 2013.
[CrossRef](#) [Google Scholar](#)
2. Qi Zhu, Han Sun, Qingxiang Feng, Jinghua Wang, "CCEDA: building bridge between subspace projection and sparse representation-based classification", *Electronics Letters*, vol. 50, no. 25, pp. 1919-1921, 2014.
[CrossRef](#) [Google Scholar](#)
3. Chenxue Yang, Mao Ye, Xudong Li, Zijian Liu, Song Tang, Tao Li, "Robust low-rank image representations by deep matrix decompositions", *Electronics Letters*, vol. 50, no. 24, pp. 1843-1845, 2014.
[CrossRef](#) [Google Scholar](#)
4. A. Moeini, H. Moeini, "Pose-invariant gender classification based on 3D face reconstruction and synthesis from single 2D image", *Electronics Letters*, vol. 51, no. 10, pp. 760-762, 2015.
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IV. Conclusions

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Keywords

IEEE Keywords

Robustness, Face recognition, Feature extraction, Humans, Lighting, Linear regression, Signal representations, Classification algorithms, Object recognition, Image recognition

INSPEC: Controlled Indexing

face recognition, feature extraction, lightning, object recognition, random processes, regression analysis, signal representation

INSPEC: Non-Controlled Indexing

robust face recognition, sparse signal representation, illumination, occlusion, multiple linear regression model, image-based object recognition, feature extraction, random projections, downsampled images, eigenfaces, Laplacianfaces

Author Keywords

Face recognition, feature extraction, occlusion and corruption, sparse representation, compressed sensing, ℓ^1 -minimization, validation and outlier rejection.

MeSH Terms

Algorithms, Artificial Intelligence, Biometry, Cluster Analysis, Face, Humans, Image Enhancement, Image Interpretation, Computer-Assisted, Pattern Recognition, Automated, Reproducibility of Results, Sensitivity and Specificity, Subtraction Technique

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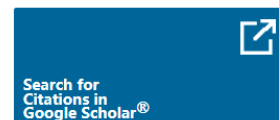
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Enabling AI in Future Wireless Networks: A Data Life Cycle Perspective

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Dinh C. Nguyen; Peng Cheng

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



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瞭解作者詳情

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 (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
School of Engineering
Deakin University
Warrnambool, VIC, Australia

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 the School of Engineering, 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 Internet of Things Journal, IEEE GLOBECOM, ICC, and CCGI. He is also a recipient of the prestigious Data Science Research Award. His research interests include federated learning, deep reinforcement learning, and edge computing. He is a frequent speaker at top-tier conferences including IEEE International Conference on Data Science in Engineering (ICDSE).

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Citations
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| Year | Publications |
|------|--------------|
| 2019 | 1 |
| 2020 | 2 |
| 2021 | 15 |
| 2022 | 1 |

Co-Authors:

- Prabadevi B.
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Thippa Reddy Gadekallu; Quoc-Viet Pham; Dinh C. Nguyen; Praveen Kumar Reddy Maddikunta; N. Deepa; B. Prabadevi; Pubudu N. Pathirana; Jun Zhao; Won-Joo Hwang
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Conference Location 

☐ **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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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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Abdulhadi Shoufan
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2020 IEEE International Symposium on Circuits and Systems Virtual, October 10-21, 2020

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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 Experimentation 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." In 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 sub-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 the preamble of IEEE 802.11ad compliant frames in real-time.

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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

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Citation Author(s):

Yongxiang Yao
Yongjun Zhang

Submitted by:

Yongxiang Yao

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Fri, 03/11/2022 - 01:24

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10.21227/2raa-sp12

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Multi-modal Remote Sensing Image; Matching; Co-occurrence Filter; New image gradient

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

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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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Robust MeanShift clustering algorithm (Claude Cariou)

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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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H. Reisinger, R.P. Vellertsen, P.J. W
Grasser, C. Schlunder
2008 IEEE International Integrated
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☐ Analysis of NBTI Degradation- a
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H. Reisinger, O. Blank, W. Heinrigs,
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H. Reisinger  

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Affiliation

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Neubiberg
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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, where he was involved in thin dielectrics and
semiconductor fabrication and characterization. He is currently
working in the Infineon Reliability Department, mainly working on the problems of threshold
instabilities of MOSFETs. (Based on document published on 26 October 2018).

Publications

92

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2,343

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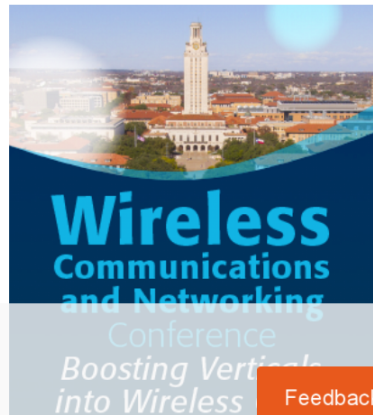
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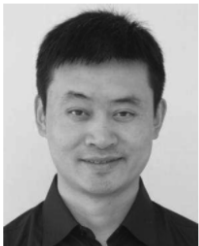
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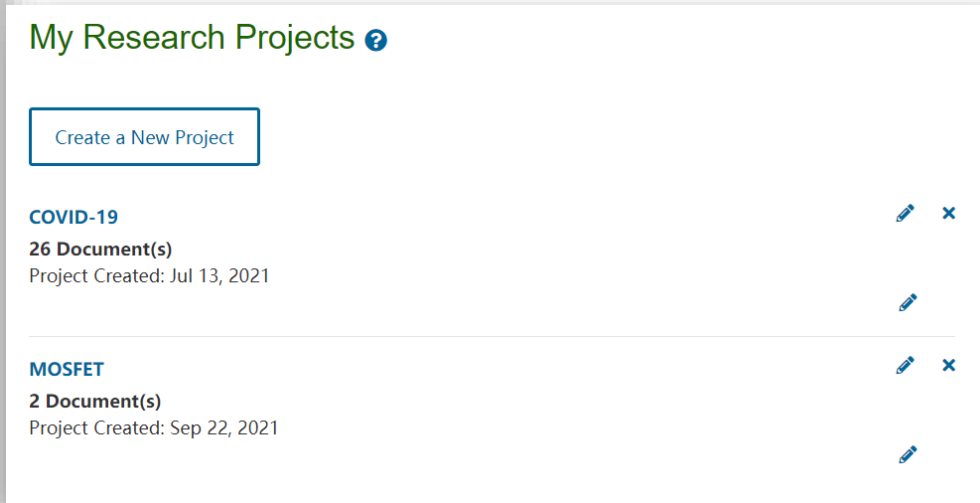
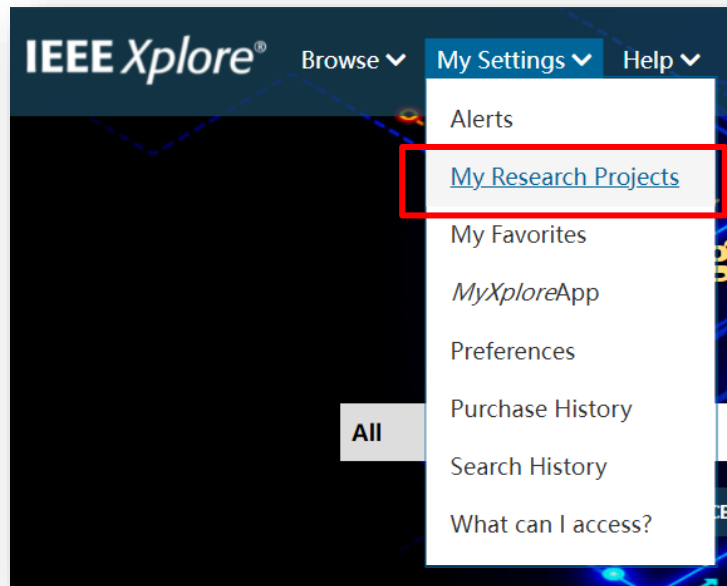
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The screenshot displays the IEEE Xplore search interface. The main search results list shows 82,534 items for the query "application NEAR/5 secur* x". On the left, there are filters for document type (Conferences, Journals, Standards, Early Access Articles), a "Show" section with radio buttons for "All Results", "Subscribed Content", and "Open Access Only", and a "Year" range selector set from 1885 to 2022. The search results list includes entries like "A Security Framework for Input..." and "Holistic Web Application Security...".

A modal window titled "My Research Projects" is open in the center. It shows a message: "You have selected 2 item for export to My Research Projects." Below this, there is a dropdown menu labeled "Add to Project" with a red box around it. The dropdown menu is open, showing options: "Add to Project", "Application Security" (highlighted with a blue bar), and "Cloud Computing". A mouse cursor is pointing at "Application Security". Below the dropdown is a text input field labeled "Add Document Tags" with a "Max 1,000 Characters" limit and an "Enter" button.

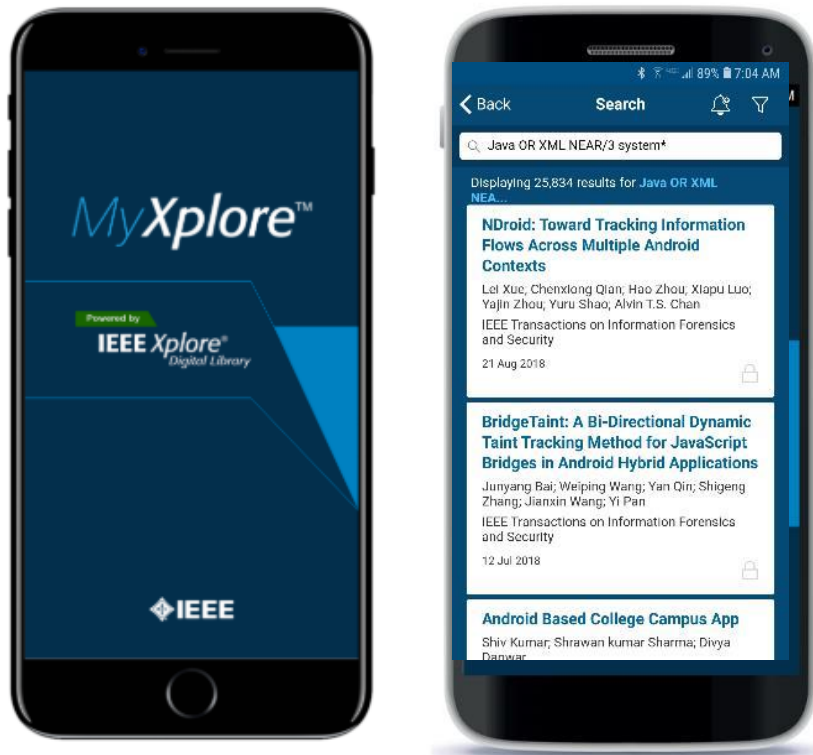
In the bottom right corner, a search result for the paper "Passive localization of signal source based on UAVs in complex environment" is visible. It includes the publisher "IEEE", a "Cite This" button, a "PDF" button, and a list of authors. A "Save to" dropdown menu is open, with a red box around it, showing options: "My Research Projects" (highlighted) and "IEEE Collabratec".

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| Xplore 進階檢索與文獻管理 | | 4月21日 | 10:00 - 11:00 AM |
| IEEE擁抱開放取用與開放科學 | | 4月27日 | 10:00 - 11:00 AM |
| IEEE期刊會議論文投稿注意事項 | | 5月5日 | 10:00 - 11:30 AM |
| 英文科技論文寫作與投稿技巧 | | 5月10日 | 10:00 - 11:30 AM |
| 教授觀點：發揮學術影響力 | IEEE Fellow 高文忠教授 | 5月6日 | 10:00 - 11:00 AM |
| 教授觀點：科技論文撰寫之3C5章節 | IEEE Fellow 鄭木海教授 | 5月17日 | 10:00 - 11:00 AM |

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