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- ▶ IEEE与IEEE Xplore 介绍
- ▶ 高效检索科研文献及热点追踪
- ▶ IEEE出版渠道选择及投稿注意事项
- ▶ IEEE学术活动助力科研发展

IEEE与IEEE Xplore介绍



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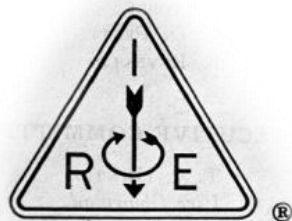
IEEE的成立

1884



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

1912



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

1963



IEEE

IEEE
The Institute of Electrical
and Electronics Engineers
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Present

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42万人



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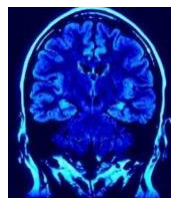
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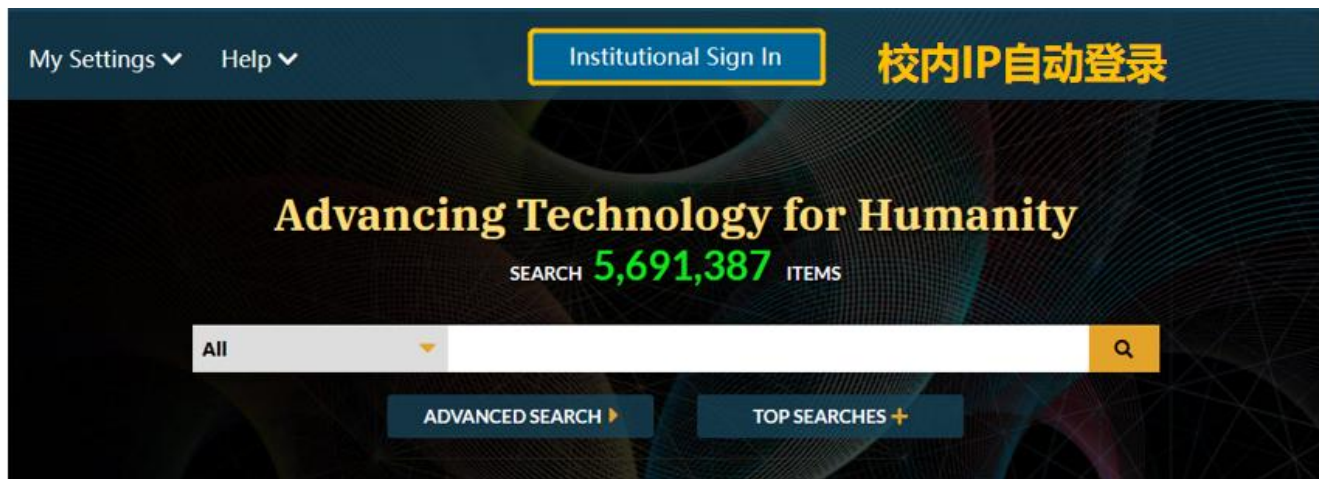
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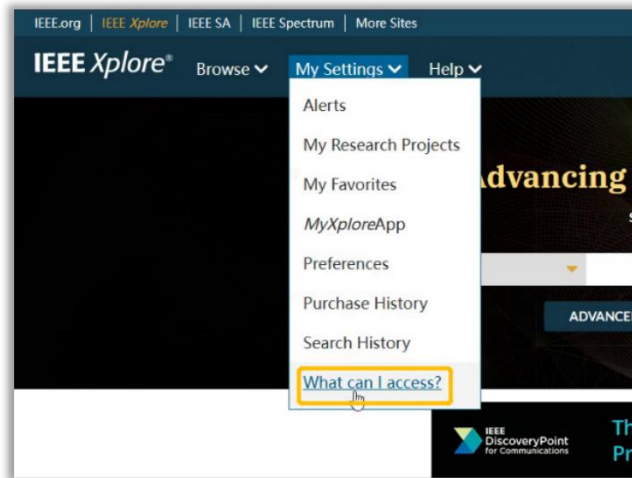


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Jingsi Ma; Yi Zhang; Hesiqi Bin; Kang Wang; Jinfang Liu; Hanrui Gao
2022 International Symposium on Educational Technology (ISET)
Year: 2022 | Conference Paper | Publisher: IEEE
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☐ Learning From a Complementary-Label Source Domain: Theory and Algorithms
Yiyang Zhang; Feng Liu; Zhen Fang; Bo Yuan; Guangquan Zhang; Jie Lu
IEEE Transactions on Neural Networks and Learning Systems
Year: 2021 | Early Access Article | Publisher: IEEE
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☐ A Learning Object on Computational Intelligence
F.A.P. Reis; I.C. Felix; S.L. Stanzani; R.J.G.B. Campello; L.N. de Castro; H. Senger; M.C. Rosatelli
Sixth IEEE International Conference on Advanced Learning Technologies (ICALT'06)
Year: 2006 | Conference Paper | Publisher: IEEE
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☐ EXPANSE, A Continual Deep Learning System; Research Proposal
Mohammadreza Iman; Khaled Rasheed; Hamid R. Arabnia

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Code & Datasets

Code

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Dataset Name: Aircraft Fuel Distribution System

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Citation Author(s): Koorosh Aslansafar (University of Hull), Youcef Gharabla (University of York), Sahag Kabir (University of Bradford), Ioannis Sorkalos (Fraunhofer Institute for Experimental Software Engineering (IESE)), Yiannis Papadopoulos (University of Hull)

Submitted by: koorosh.aslansafar

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Design and Implementation of a Machine Learning Based EEG Processor for Accurate Estimation of Depth of Anesthesia

Wala Saadeh; Fatima Hameed Khann; Muhammad Awais Bin Altaf

2020 IEEE International Symposium on Circuits and Systems (ISCAS)

Year: 2020 | Conference Paper | Publisher: IEEE

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An Efficient Parallel Secure Machine Learning Framework on GPUs

Feng Zhang; Zheng Chen; Chenyang Zhang; Amelie Chi Zhou; Jidong Zhai; Xiaoyong Du

IEEE Transactions on Parallel and Distributed Systems

Year: 2021 | Volume: 32, Issue: 9 | Journal Article | Publisher: IEEE

Cited by: Papers (2)

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App Panel

Tabs

```
1 #include <omp.h>
2 #include <iostream>
3 #include <cstdlib>
4 #include <cstring>
5 #include <random>
6 #include <thread>
7 #include "../include/ParSecureML.h"
8 #include "mpi.h"
9
10 void Support_noMPI::GetShape(int in_row1, int
11 in_col1, int in_row2, int in_col2){
12     row1 = in_row1;
13     col1 = in_col1;
14     row2 = in_row2;
15     col2 = in_col2;
16 }
17 /*
18 Full connect layer shape:
19 U,U1,U2:row1*col1
20 V,V1,V2:row2*col2
21 Z,Z1,Z2:row1*col2
22 */
23 void Support_noMPI::Initial(){
24     U1 = (float*)malloc(sizeof(float)*row1*col1);
25     U2 = (float*)malloc(sizeof(float)*row1*col1);
26     V1 = (float*)malloc(sizeof(float)*row2*col2);
27     V2 = (float*)malloc(sizeof(float)*row2*col2);
28     Z1 = (float*)malloc(sizeof(float)*row1*col2);
29     Z2 = (float*)malloc(sizeof(float)*row1*col2);
30 }
```

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IEEE Access

member 12, 2019, date of publication September 16, 2019, date of current version October 1, 2019.

DOI: 10.1109/ACCESS.2019.2911141

Novel Approach to Update Safety Artificial Intelligence

IAG KABIR¹, KOOROSH ASLANSEFAT¹, (Member, IEEE),
YIANNIS PAPADOPOULOS²

¹Dept. of Informatics, Faculty of Engineering, University of York, York YO10 5GB, U.K.
(i.a.slanssefat@york.ac.uk)

²2020 Project under Grant 732242.

systems are becoming larger and more complex to obtain a higher level of safety and evaluation of these systems can be a difficult and error-prone task. Among the various methods for system analysis, Fault Tree Analysis (FTA) is one of the well-known methods in terms of safety. This study proposes a novel approach by using Machine Learning (ML) to learn about the normal behavior of the system. Afterwards, if any abnormality occurs, the approach tries to find the explanation of the fault. The effectiveness of the proposed approach is shown through a hypothetical example of an Aircraft Fuel Distribution System (AFDS).

INDEX TERMS Fault tree, reliability, safety modeling, model repair, machine learning, artificial intelligence.

view(s) through a safe procedure can be called safety [5]. Another example would be aircraft emergency landing safety.

Simulations, and IV) multi-level models that can be created through a combination of mentioned methods [8], [9],

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Risky Module Estimation in Safety-Critical Software

2009 Eighth IEEE/ACIS International Conference on Computer and Information Science
Published: 2009

A combined analysis method of FMEA and FTA for improving the safety analysis quality of safety-critical software

2013 IEEE International Conference on Granular Computing (GrC)
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1. G. Latif-Shabgahi, J. M. Bass and S. Bennett, "A taxonomy for software voting algorithms used in safety-critical systems", *IEEE Trans. Rel.*, vol. 53, pp. 319-328, Sep. 2004.
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2. A. Avizienis, J.-C. Laprie, B. Randell and C. Landwehr, "Basic concepts and taxonomy of dependable and secure computing", *IEEE Trans. Dependable Secure Comput.*, vol. 1, no. 1, pp. 11-33, Jan. 2004.
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3. K. S. Trivedi and A. Bobbio, *Reliability and Availability Engineering: Modeling Analysis and Applications*, Cambridge, U.K.:Cambridge Univ. Press, 2017.
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4. S. Kabir, M. Yazdi, J. I. Aizpurua and Y. Papadopoulos, "Uncertainty-aware dynamic reliability analysis framework for complex systems", *IEEE Access*, vol. 6, pp. 29499-29515, 2018.
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2. Sohag Kabir, Yiannis Papadopoulos, "Computational Intelligence for Safety Assurance of Cooperative Systems of Systems", *Computer*, vol.53, no.12, pp.24-34, 2020.
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3. Yang Hong, Likong Wang, Jiexiang Kang, Hui Wang, Zhongjie Gao, "A Novel Application Approach for Anomaly Detection and Fault Determination Process based on Machine Learning", *2020 6th International Symposium on System and Software Reliability (ISSSR)*, pp.1-5, 2020.
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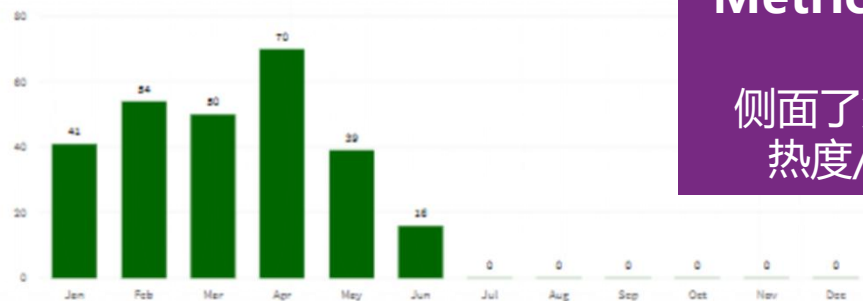


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Biography

Zengrui Li (Member, IEEE) received the B.S. degree in communication and information system from Beijing Jiaotong University, Beijing, China, in 1984, the M.S. degree in electrical engineering from the Beijing Broadcasting Institute, Beijing, in 1987, and the Ph.D. degree in electrical engineering from Beijing Jiaotong University, in 2009. He was a Visiting Researcher with Yokohama National University, Yokohama, Japan, from 2004 to 2005. He is currently a Professor with the School of Information Engineering, Communication University of China, Beijing. His current research interests include the areas of computational electromagnetics (EMs), the finite-difference time-domain methods, EM modeling and simulation of antennas, and communication an... Show More

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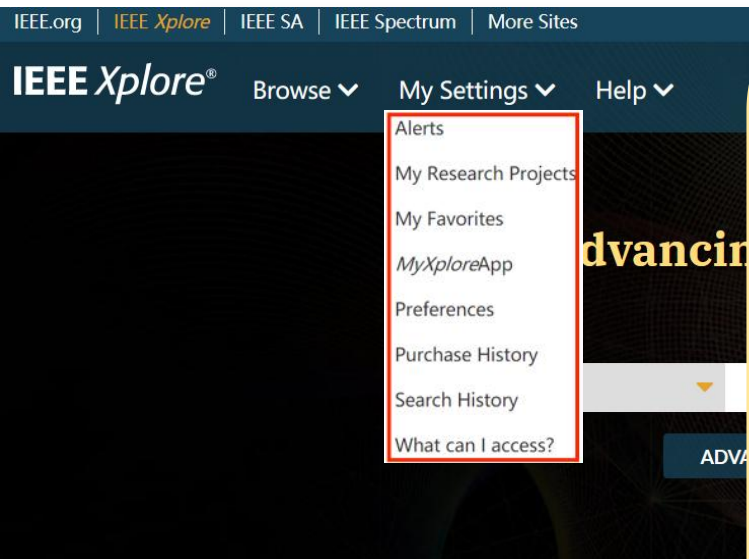
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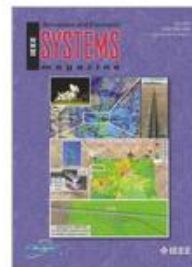
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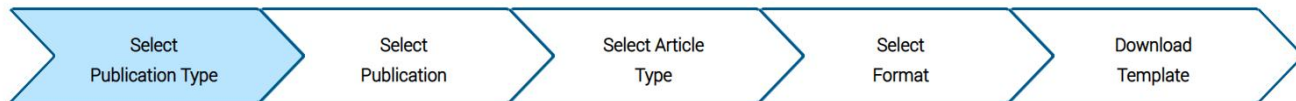
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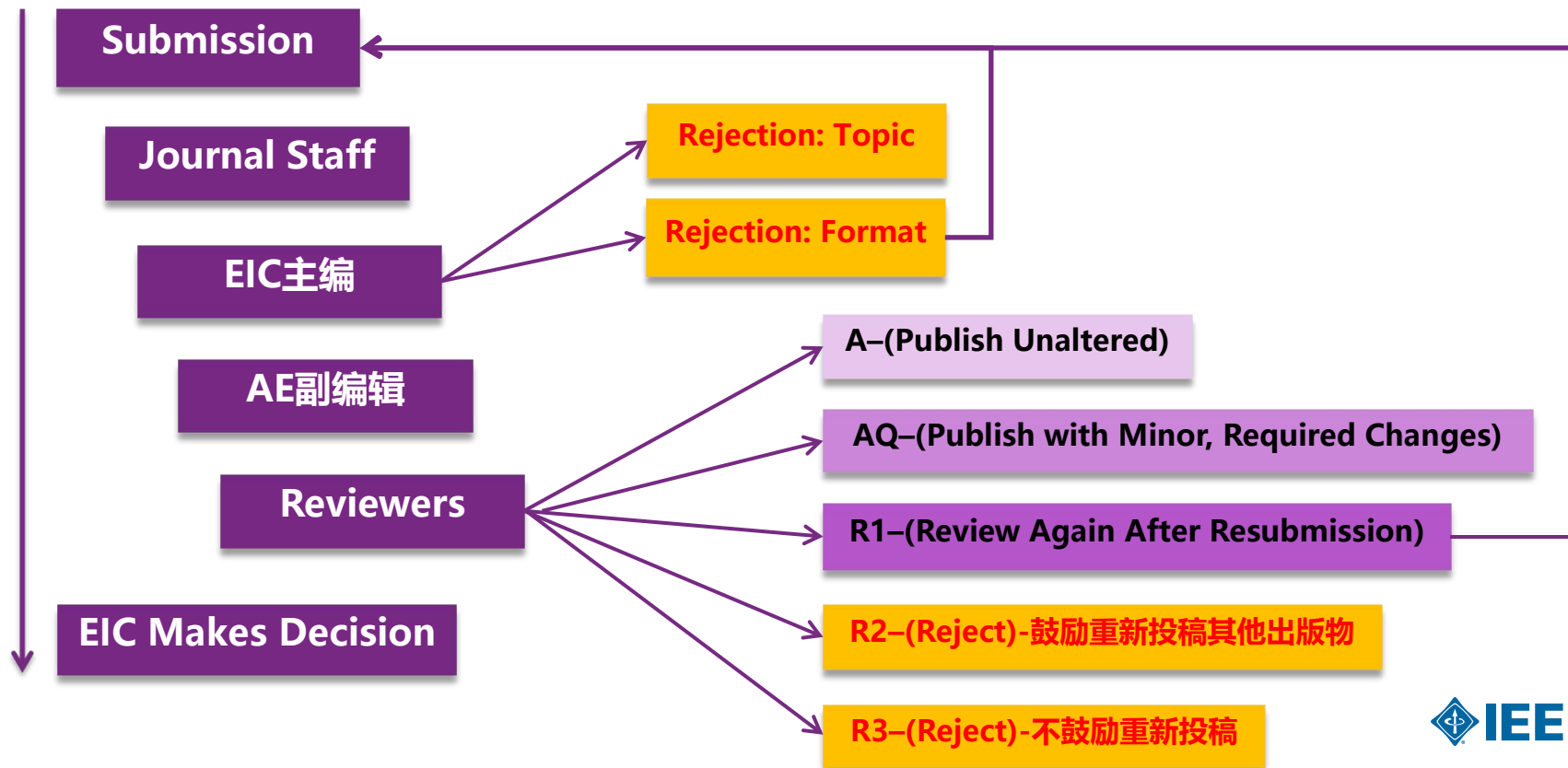
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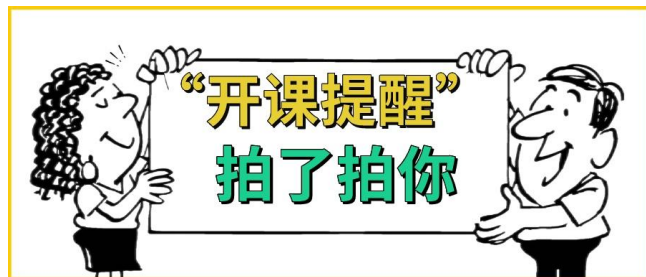
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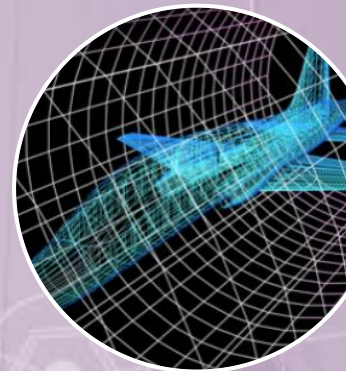
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