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吉林大学

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- ▶ 多种方法助力高效检索科研文献
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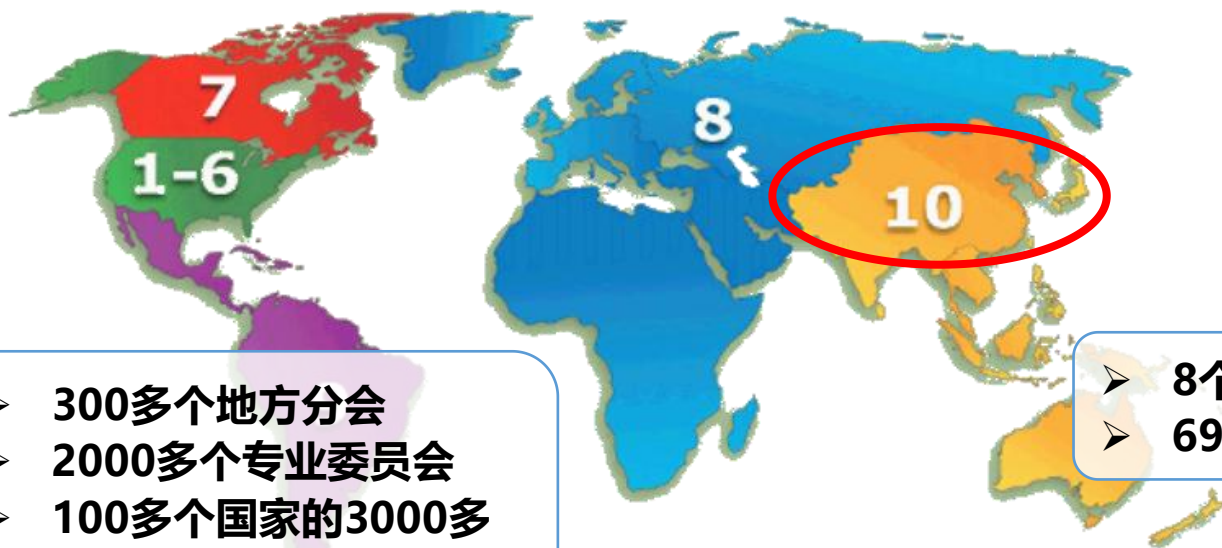
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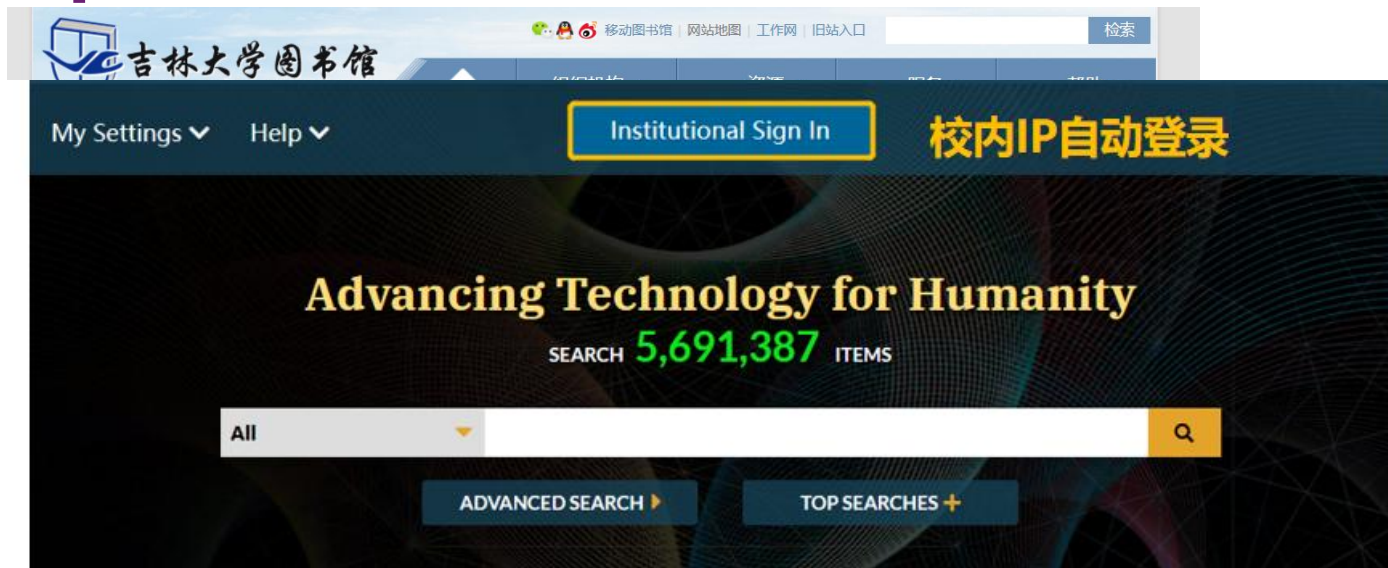
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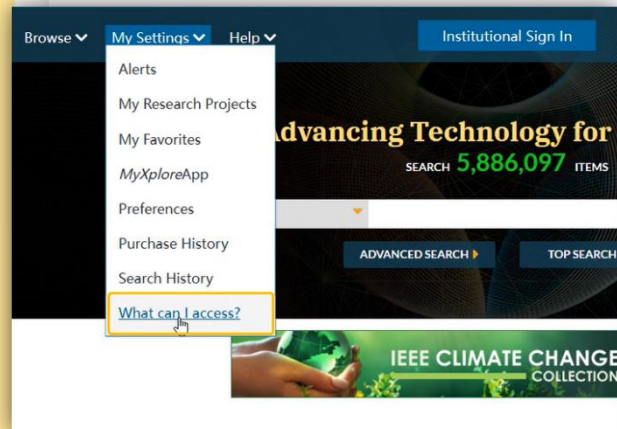
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## Design and Implementation of a Machine Learning Based EEG Processor for Accurate Estimation of Depth of Anesthesia

[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

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ParSecureML:An Efficient Parallel Secure Mac... (Zheng Chen) [Edit Capsule](#) [Sign Up](#)

```
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     row2 = in_row2;
14     col2 = in_col2;
15 }
16 /*
17 Full connect layer shape:
18 U,U1,U2:row1*col1
19 V,V1,V2:row2*col2
20 Z,Z1,Z2:row1*col2
21 */
22 void Support_noMPI::Initial(){
23     u1 = (float*)malloc(sizeof(float)*row1*col1);
24     u2 = (float*)malloc(sizeof(float)*row1*col1);
25     v1 = (float*)malloc(sizeof(float)*row2*col2);
26     v2 = (float*)malloc(sizeof(float)*row2*col2);
27     z1 = (float*)malloc(sizeof(float)*row1*col2);
28     z2 = (float*)malloc(sizeof(float)*row1*col2);
29 }
```

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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.
- 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.
- 3. K. S. Trivedi and A. Bobbio, *Reliability and Availability Engineering: Modeling Analysis and Applications*, Cambridge, U.K.:Cambridge Univ. Press, 2017.
- 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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- 1. Meng Zhang, Chunsheng Cui, Shulin Liu, Xiaojuan Yi, "Reliability technology using FTA, FMECA, FHA and FRACAS: A review", *2021 IEEE International Conference on Sensing, Diagnostics, Prognostics, and Control (SDPC)*, pp.282-291, 2021.
- 2. Sohag Kabir, Yiannis Papadopoulos, "Computational Intelligence for Safety Assurance of Cooperative Systems of Systems", *Computer*, vol.53, no.12, pp.24-34, 2020.
- 3. Yang Hong, Lisong 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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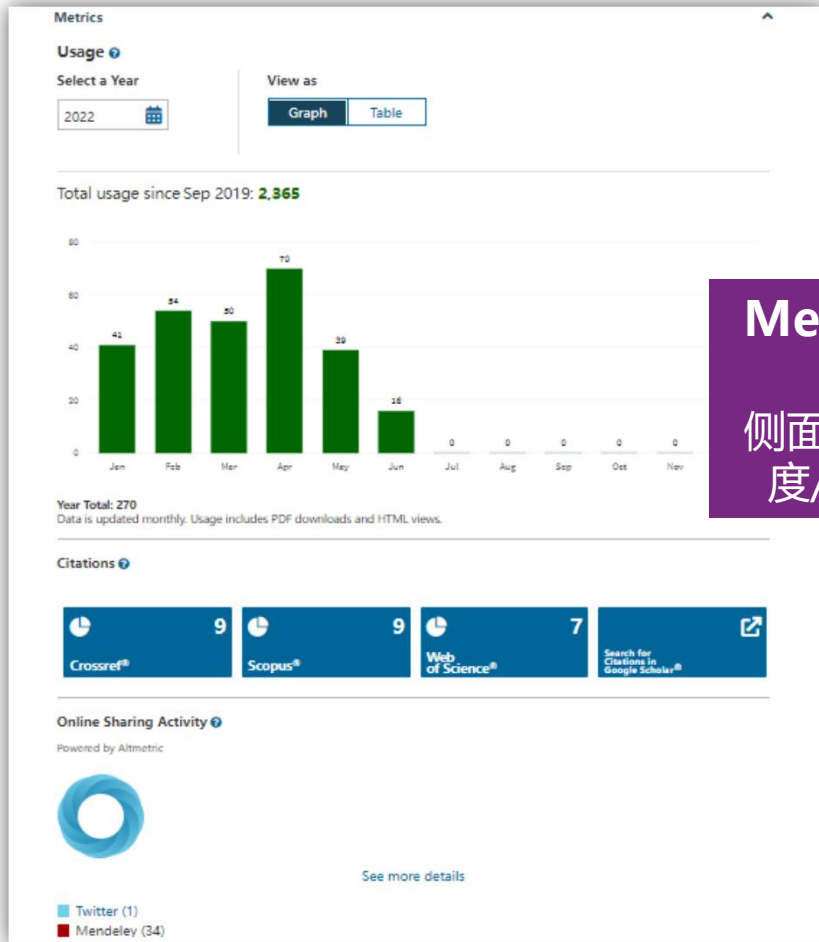
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Bo Yang; Yu Lei; Jiming Liu; Wenjie Li  
IEEE Transactions on Pattern Analysis and Machine Intelligence  
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Bo Yang; William Cheung; Jiming Liu  
IEEE Transactions on Knowledge and Data Engineering  
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## Biography

Geng Sun (Member, IEEE) received the B.S. degree in communication engineering from Dalian Polytechnic University in 2007 and the Ph.D. degree in computer science and technology from Jilin University in 2018. He was a Visiting Researcher at the School of Electrical and Computer Engineering, Georgia Institute of Technology, USA. He currently holds a post-doctoral position with Jilin University. His research interests include wireless sensor networks, antenna arrays, collaborative beamforming, and optimizations. *(Based on document published on 30 January 2023).*

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Jingsi Ma; Yi Zhang; Hesiqi Bin; Kang Wang; Jinfang Liu; Hanrui Gao

2022 International Symposium on Educational Technology (ISET)

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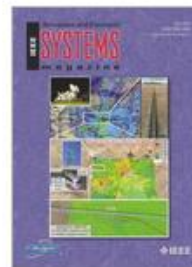
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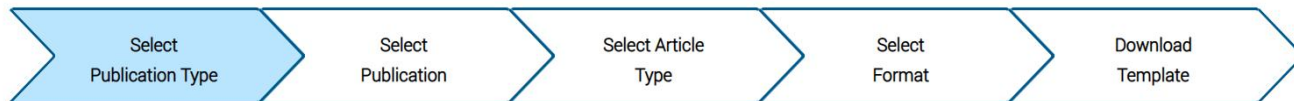
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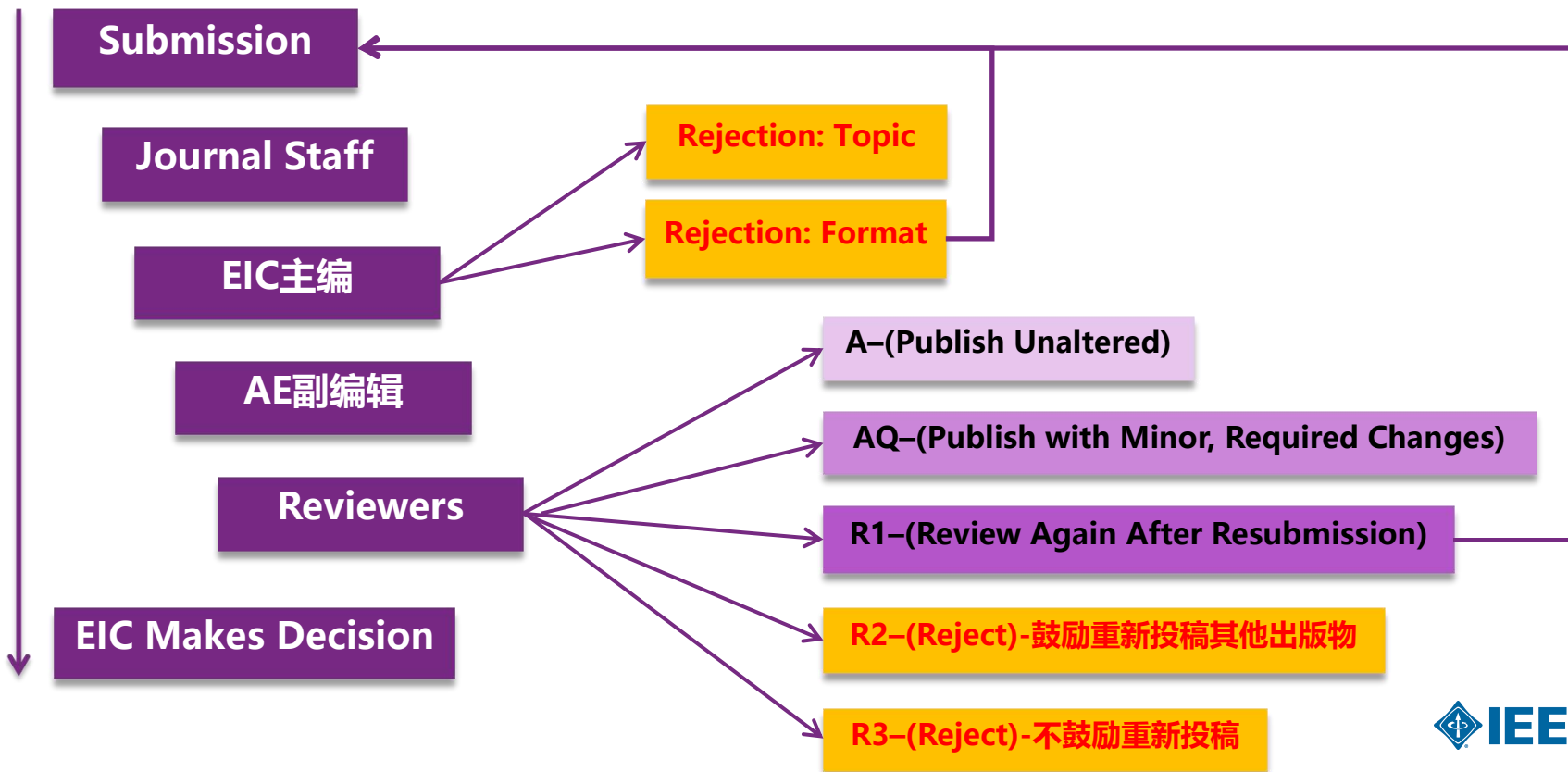
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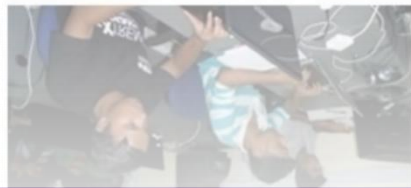
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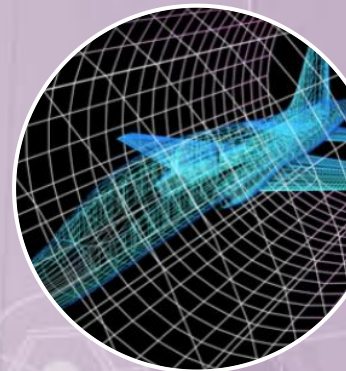
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