

透過IEEE開拓國際視野 提升學術能力

李箐

IEEE中國區資訊經理



议题

- (1) 如何透過IEEE開拓國際視野
 - 如何參與IEEE學會
 - 獎助學金
 - 科研競賽活動

- (2) IEEE學術檢索及投稿
 - IEEE Xplore最新檢索功能
 - 期刊及會議論文投稿技巧

如何透過IEEE開拓國際視野





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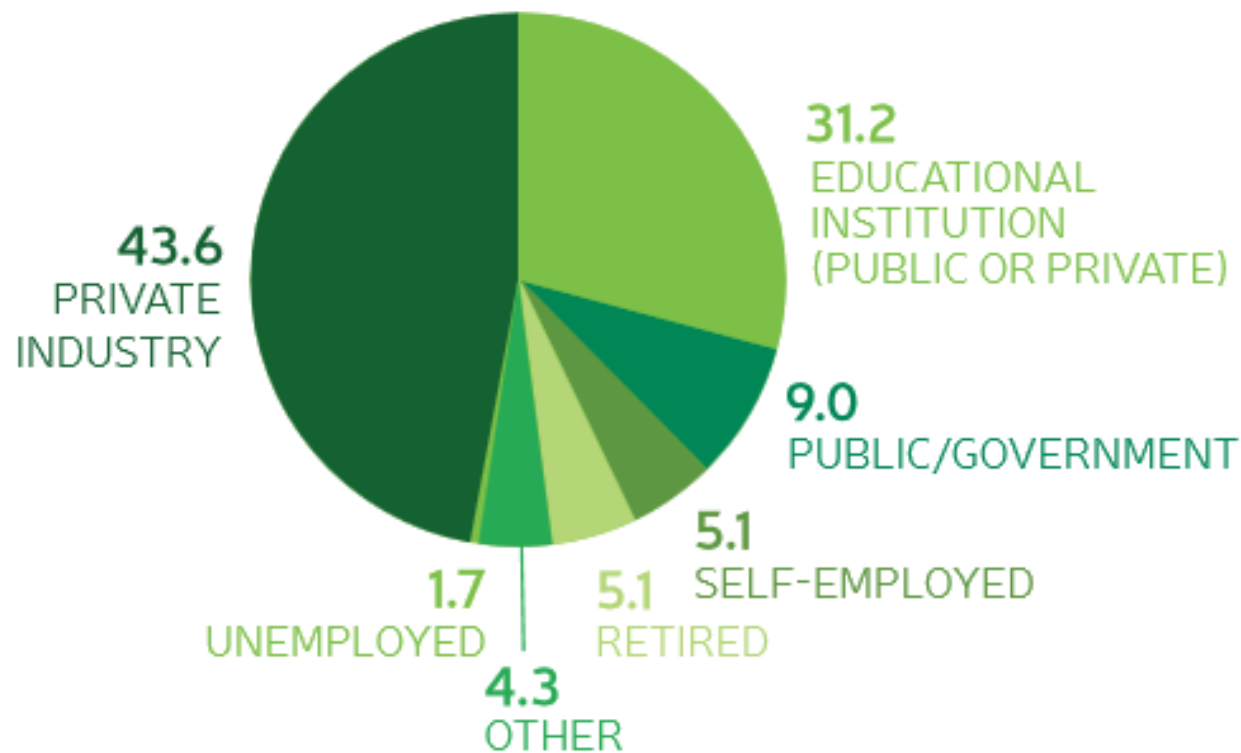


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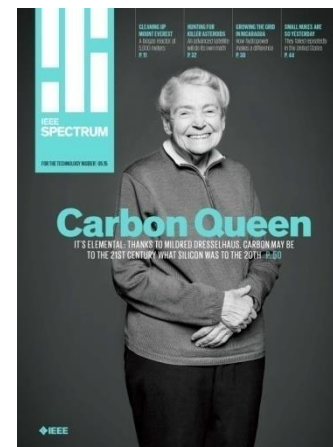
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B. Jayant Baliga
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
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
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
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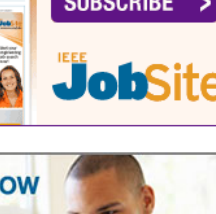
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♦ Scholarships, grants, and fellowships

IEEE Charles LeGeyt Fortescue Fellowship: This scholarship is approximately US\$24,000 and is awarded to a first-year master's degree in Electrical Engineering at an engineering school located in the United States.

IEEE Computational Intelligence Society Conference: This society awards a number of travel grants to assist IEEE Student members (Neural Networks Society) sponsored conferences.

IEEE Computational Intelligence Society Summer Scholarships: These scholarships of US\$1,000 to US\$4,000 are awarded for deserving graduate students for support for their research during a summer period.

IEEE Computer Society Merwin Scholarship: This scholarship is awarded to active leaders in the IEEE Computer Society Student Branch. These scholarships are available and awarded on an annual basis.

IEEE Dielectrics and Electrical Insulation Society Graduate Fellowship: This fellowship was designed to support graduate research in the field of dielectrics and electrical insulation. Two US\$7,500 or three US\$5,000 scholarships are awarded annually.

IEEE Electron Devices Society Graduate Student Fellowship: This fellowship recognizes, and supports graduate-level study and research in the field of electron devices. A fellowship is awarded to students in each of the main geographic regions: Europe/Mid-East/Africa, Asia/Pacific.

IEEE James C. Klouda Memorial Scholarship Award: This Memorial Scholarship awards a scholarship to a qualified student who has earned an electrical engineering degree with emphasis in the field of power electronics, a related discipline, from an accredited US university or college.

IEEE Life Members' Fellowship in Electrical History: This fellowship in Electrical History supports either one year of full-time graduate work in the history of electrical science and technology at a college or university of recognized standing, or up to one year of post-doctoral research for a scholar in this field who has received his or her Ph.D. within the past three years. The stipend is US\$17,000, and a research budget of US\$3,000 is available.

IEEE Life Member Graduate Study Fellowship in Electrical Engineering: This renewable US\$10,000 fellowship is awarded annually to a first-year, full-time graduate student obtaining his or her master's degree for work in the area of electrical engineering, at an engineering school/program of recognized standing worldwide.

IEEE Masters Student Fellowship: This one-year fellowship is awarded to promote, recognize, and support graduate masters-level study and research within the Electron Devices Society's field of interest. The prize is US\$2,000 and a plaque to the student, to be presented by the dean or department head of the student's enrolled graduate program.

IEEE Microwave Theory and Techniques Society Graduate Fellowships: This program was created to support graduate research studies in microwave engineering. Fellowships are in the amount of US\$5,000 each, and the deadline for submission is 30 November annually.

IEEE Nuclear and Plasma Sciences Society Graduate Scholarship Award: This scholarship recognizes contributions to the fields of nuclear and plasma sciences. Scholarships are in the amount of US\$500 and are awarded annually, with submission deadline on 31 January.

IEEE Photonics Society Graduate Student Fellowship Program: This fellowship program provides ten fellowships of US\$5,000 each. They will be awarded based on the student membership in each of the main geographic regions: Americas, Europe/Mid-East/Africa, Asia/Pacific.

IEEE Power and Energy Society Scholarship Program: This program is being offered for the second year with scholarships to students. The prize is US\$2,000 and a plaque to the student, to be presented by the Dean or Department head of the student's enrolled graduate program.



24 October 2015

0:00:00 GMT – 23:59:59 GMT

Place	Country	Team Name
1		Iceland viRUs
2		USA WhySoConcrete
3		Sri Lanka oops



IEEE.tv ANNOUNCEMENT: <http://goo.gl/Du8993>

2014 Competition Stats

- 2,288 teams registered
 - 5,900 students; 600 proctors; 100 volunteers/staff
- 63 countries and 480 universities represented
- More than 320,000 solutions submitted
- Expanded committee includes Public Relations Ambassadors

Business and Leadership Model

- Adopted new business model towards cost containment
- Provided digital gift bundle to all participants and tangible prize bundle to top 100 teams
- Planning move from ad-hoc to standing sub-committee of SAC and adoption of proven infrastructure to ensure future success

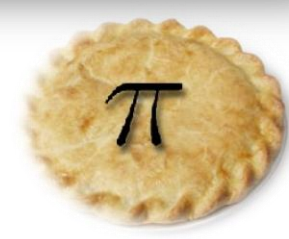
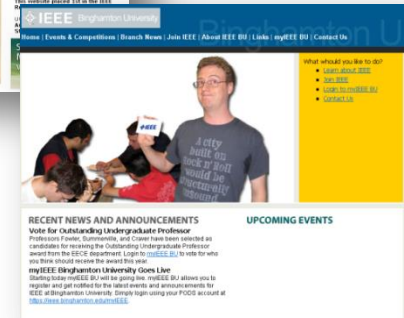
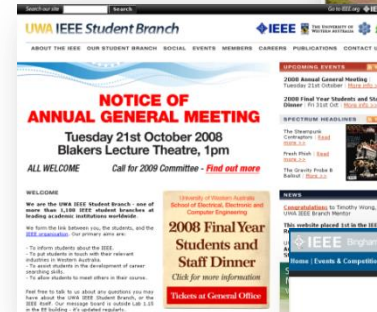
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The IEEE Student Branch is an operating organizational unit of IEEE at the college/university level constituted by a minimum of twelve (12) IEEE student members

- Goal: Engage students in the mission, benefits, and opportunities of the IEEE
- Sponsors activities and events with technical, professional, and humanitarian aspirations
 - Guest speakers
 - Paper contests
 - Local community initiatives
- Fun, too!
 - Social events to bring together students with faculty
 - PI Day



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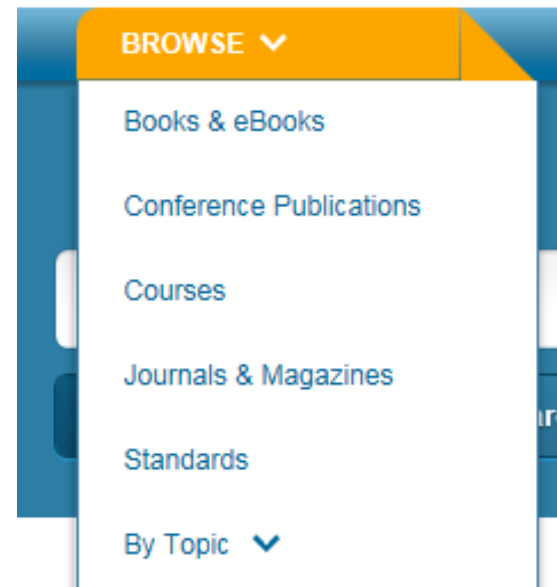
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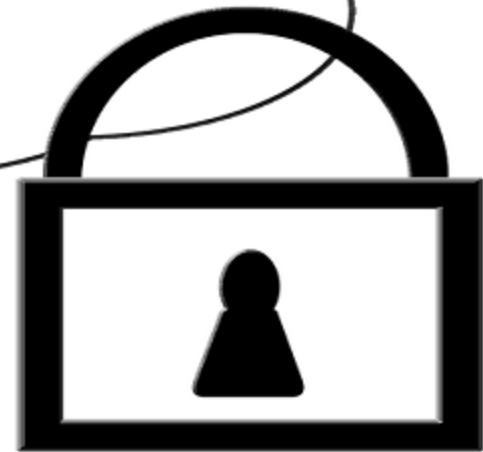
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Data Security In Cloud Computing



From IEEE Xplore: 8774 results

- **Transparency service model for data security in cloud computing**
- **Comparative study of different cryptographic algorithms for data security in cloud computing**
- **Ensuring data storage security in cloud computing based on hybrid encryption schemes**
- **.....**

First Steps

Your research problem must contribute new and important knowledge to your field

- **Conduct a Literature Review**
- **Gather References & Citations**
- **Take Notes & Keep Track**



Multiple ways to start a search

Advanced Search Options

Advanced Keyword/Phrases

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Preferences



ENTER KEYWORDS, PHRASES, OR A BOOLEAN EXPRESSION

Note: Use the drop down lists to generate the correct Operator and Data Field Codes.

This wizard will NOT build your expression. [View examples of how to write a boolean search string](#)

Search : ☒ Metadata Only ☐ Full Text & Metadata ?

Data Fields

Operators

cloud computing AND data privacy

SEARCH GUIDELINES

Operators need to be in all caps - i.e. AND/OR/NOT/NEAR.

Asterisk wildcards cannot be used within quotes or with the NEAR/ONEAR operators.

There is a maximum of 15 search terms.

Reset All

SEARCH

Start broad, narrow down

The screenshot shows the IEEE Xplore search interface. At the top, a search bar contains the query "314 for cloud computing x data privacy x". Below the search bar, there are filters for "Journals & Magazines (408)", "Early Access Articles (77)", and "Courses (1)". The results are sorted by "Relevance". The first result is "Lightweight cloud computing for development: A graph based data model" by Samson Akintoye et al., published in 2017. A dropdown menu for "Publication Title" is open, showing a list of search results including "Cloud Computing, IEEE Transactions on (454)", "Cloud Computing, IEEE (439)", "Cloud Computing and Intelligent Systems (CCIS), 2012 IEEE 2nd International Conference on (327)", "Parallel and Distributed Systems, IEEE Transactions on (304)", and "Services Computing, IEEE Transactions on (253)".

Publication Title

Enter Title

- ☐ Cloud Computing, IEEE Transactions on (454)
- ☐ Cloud Computing, IEEE (439)
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314 for cloud computing x data privacy x

2,817

☐ Journals & Magazines (408)

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Select All on Page

Sort By: Relevance

Lightweight cloud computing for development: A graph based data model

Samson Akintoye; Antoine Bagula; Yacine Djemaiel; Noureddine Boudriga

2017 IST-Africa Week Conference (IST-Africa)

Year: 2017

Pages: 1 - 14

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- ☐ Courses (1)

Year

Single Year Range

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From To

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☐ **Lightweight cloud computing for developer model**

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Year: 2017

Pages: 1 - 14

IEEE Conference Publications

Abstract

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☐ **A Security Model for Preserving the Privacy of Medical Big Data in a Healthcare Cloud Using a Fog Computing Facility With Pairing-Based Cryptography**

Hadeal Abdulaziz Al Hamid; Sk Md Mizanur Rahman; M. Shamim Hossain; Ahmad Almogren; Atif Alamri

IEEE Access

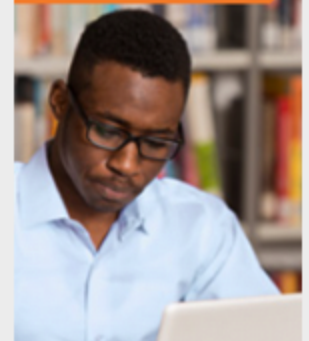
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Privacy-Preserving Public Auditing for Data Storage Security in Cloud Computing

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Abstract:

Cloud Computing is the long dreamed vision of computing as a utility, where users can remotely store their data into the cloud so as to enjoy the on-demand high quality applications and services from a shared pool of configurable computing resources. By data outsourcing, users can be relieved from the burden of local data storage and maintenance. However, the fact that users no longer have physical possession of the possibly large size of outsourced data makes the data integrity protection in Cloud Computing a very challenging and potentially formidable task, especially for users with constrained

Track references and citations

The screenshot displays the IEEE Xplore interface for a specific article. The top navigation bar includes 'Abstract', 'Authors', and 'Figures'. Below this, the 'Citations' section is highlighted with a red box, showing options for 'By Papers' and 'By Patents'. The main content area is divided into two columns: 'References in this Article' and 'Citations to this Article'. The 'References in this Article' column lists five references, with the first one being 'Draft nist working definition of secure cryptographic key management systems' by P. Varalakshmi et al. The 'Citations to this Article' column lists five citations, with the first one being 'A framework for secure cryptographic key management systems' by P. Varalakshmi et al. The central article title is 'Privacy-Preserving Public Auditing for Data Storage Security in Cloud Computing'.

Citation Map

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- 1 A framework for secure cryptographic key management systems
- 2 SecCloud: Bridging Secure Storage and
- 3 PDDS - Improving cloud data storage security using data partitioning technique
- 4 Secure Third Party Auditor for
- 5 Proofs of Ownership and

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1. P. Varalakshmi, A.R. Shaj Kanimozhi, "A framework for secure cryptographic key management systems", *Advance Computing (ICoAC) 2014 Sri International Conference* 319-323, 2014.

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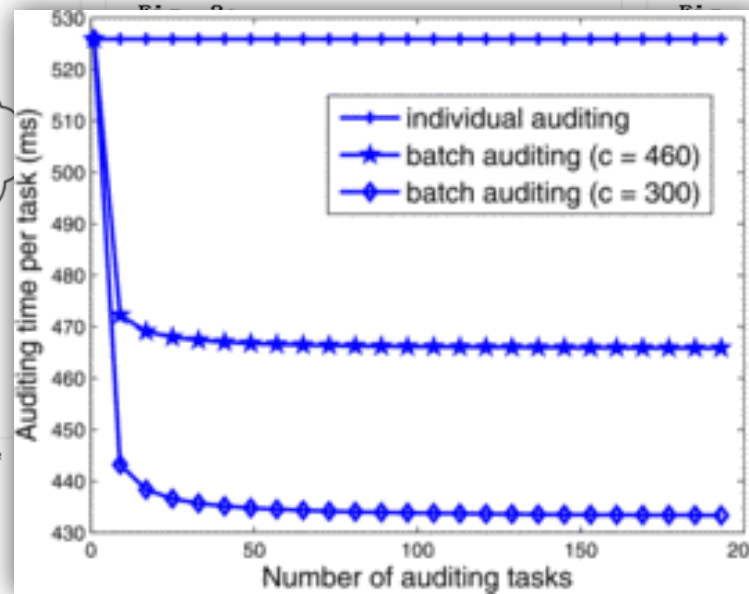
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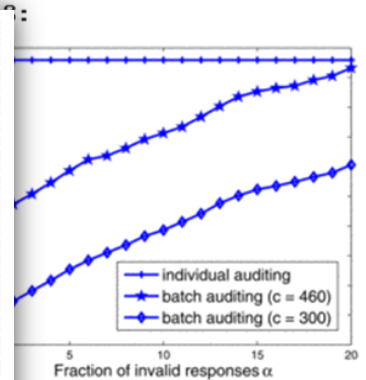
Fig. 1:



The architecture of cloud data storage service



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Bo Yang; William Cheung; Jiming Liu
IEEE Transactions on Knowledge and Data Engineering
Year: 2007, Volume: 19, Issue: 10
Pages: 1333 - 1348, DOI: 10.1109/TKDE.2007.1061
Cited by: Papers (97) | Patents (1)
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- Sensing Matrix Optimization for Block-Sparse Decoding**
Lihi Zelnik-Manor; Kevin Rosenblum; Yonina C. Eldar
IEEE Transactions on Signal Processing
Year: 2011, Volume: 59, Issue: 9
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Algorithm Name: Nullam in Est Nec Metus Facilis Vehicula (Mauris Blandit) Python



```
CODE OCEAN
Code
src
README.md
run.sh
sources.list
Data
crime.txt 12.11 KB

1 require(RSQLite)
2 require(plotly)
3
4
5 make_plot=function(drugA,
6 query=paste("select drug
7 drugA, ", drug
8 cell, " order by drugA_conc, drugB_conc, sepn "))
9
10 data=dbGetQuery(db,query)
11
12 if (dim(data)[2]>0) {
13 drugA_conc=unique(data[, "drugA_conc"])
14 drugB_conc=unique(data[, "drugB_conc"])
15 a=conc=rep(c(0.1,2.3),each=4)
16 b=conc=rep(c(0.1,2.3),4)
17
18 observed.data=matrix(data[, "c2d"], nrow=4, ncol=4, byrow=TRUE)
19 hsa=matrix(data[, "HSA"], nrow=4, ncol=4, byrow=TRUE)
20 bliss=matrix(data[, "bliss"], nrow=4, ncol=4, byrow=TRUE)
21
22 p=plot_ly(z=observed.data, type="surface", colors="Blue", opacity=0.99, show
23 add_trace=b=conc, y=a_conc, z=data[,2], type="scatter3d", marker=list(color
24 add_trace=bliss, type="surface", colors="Red", opacity=0.99, showcale=10)
25 }
```

Algorithm Name: Nullam in Est Nec Metus Facilis Vehicula (Mauris Blandit) Matlab

Algorithm Name: Donec Vitae Lacus in Lorem Porta Volutpat C Plus Plus

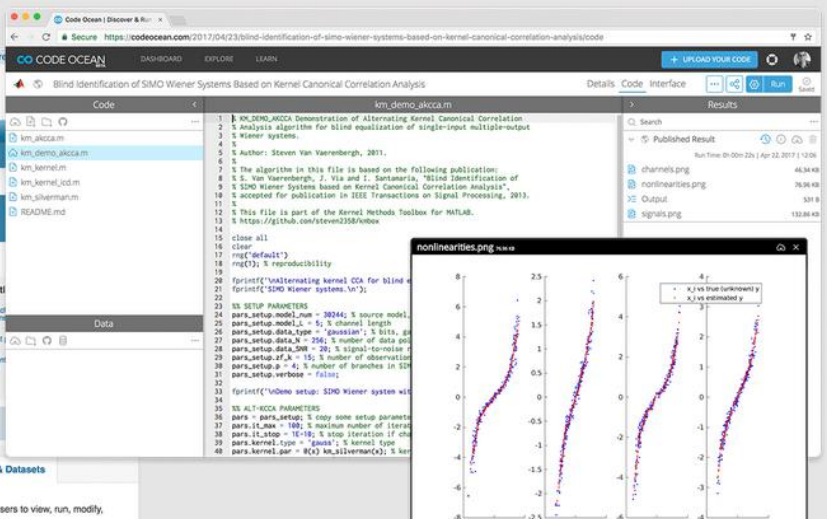
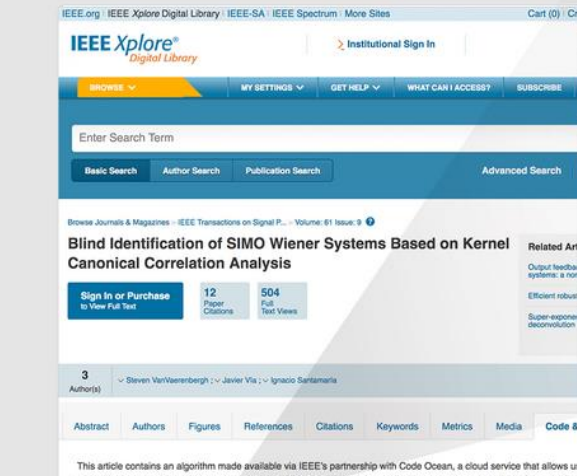
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The screenshot of the Code Ocean interface shows a MATLAB script titled 'km_demo_alcca.m'. The code includes comments in Spanish and English, describing the algorithm for blind identification of single-input multiple-output (SIMO) Wiener systems. It references a publication by Steven Van Vaerenbergh, 2011. The code sets up parameters for a 2004x5 source model, 5 channel lengths, 256 data points, 20 signal-to-noise ratio (SNR) levels, 15 number of observations, 4 number of branches in SIMO, and 4 number of branches in SIMO. It then runs the 'km' function to estimate the parameters. The output is a 4x4 matrix of parameters. The interface also shows a 'Results' panel with a 'Published Result' section containing a table of results: 'channels.png' (46.34 KB), 'nonlinearities.png' (76.26 KB), 'Output' (537 B), and 'signals.png' (132.84 KB). A plot titled 'nonlinearities.png' is displayed, showing four subplots of 'x, y vs true (turkmen) y' and 'x, y vs estimated y'.

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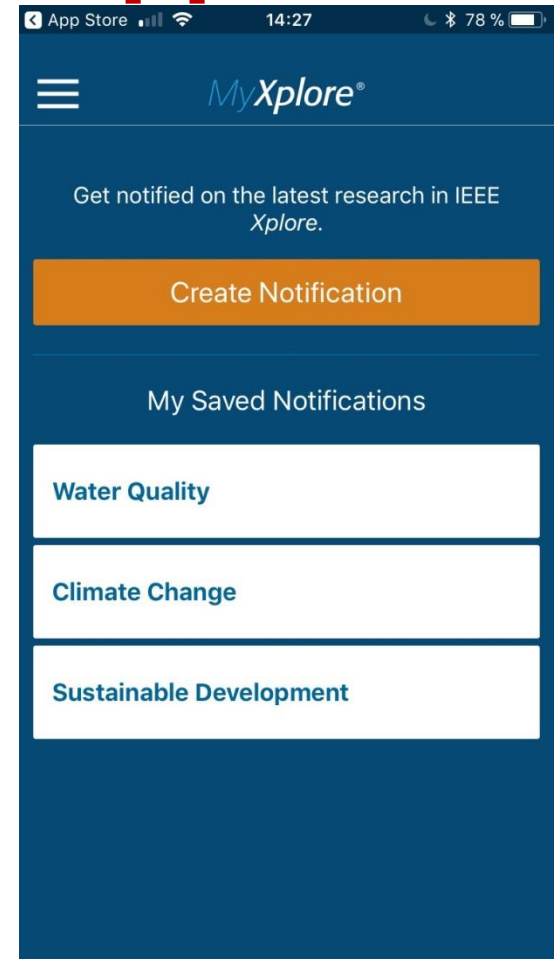
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The Internet of Things Magazine publishes peer-reviewed articles on end-to-end IoT solutions.

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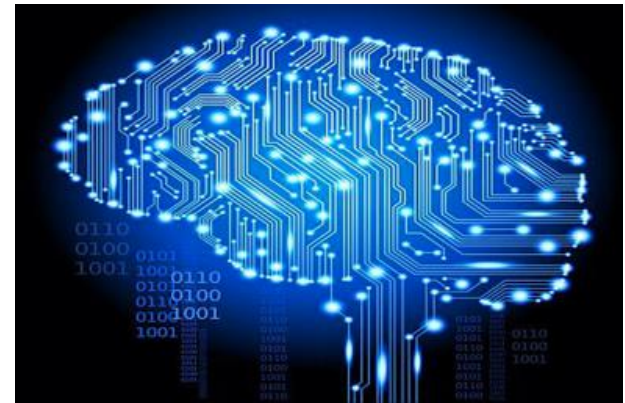


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- IEEE Letters of the **Computer Society**
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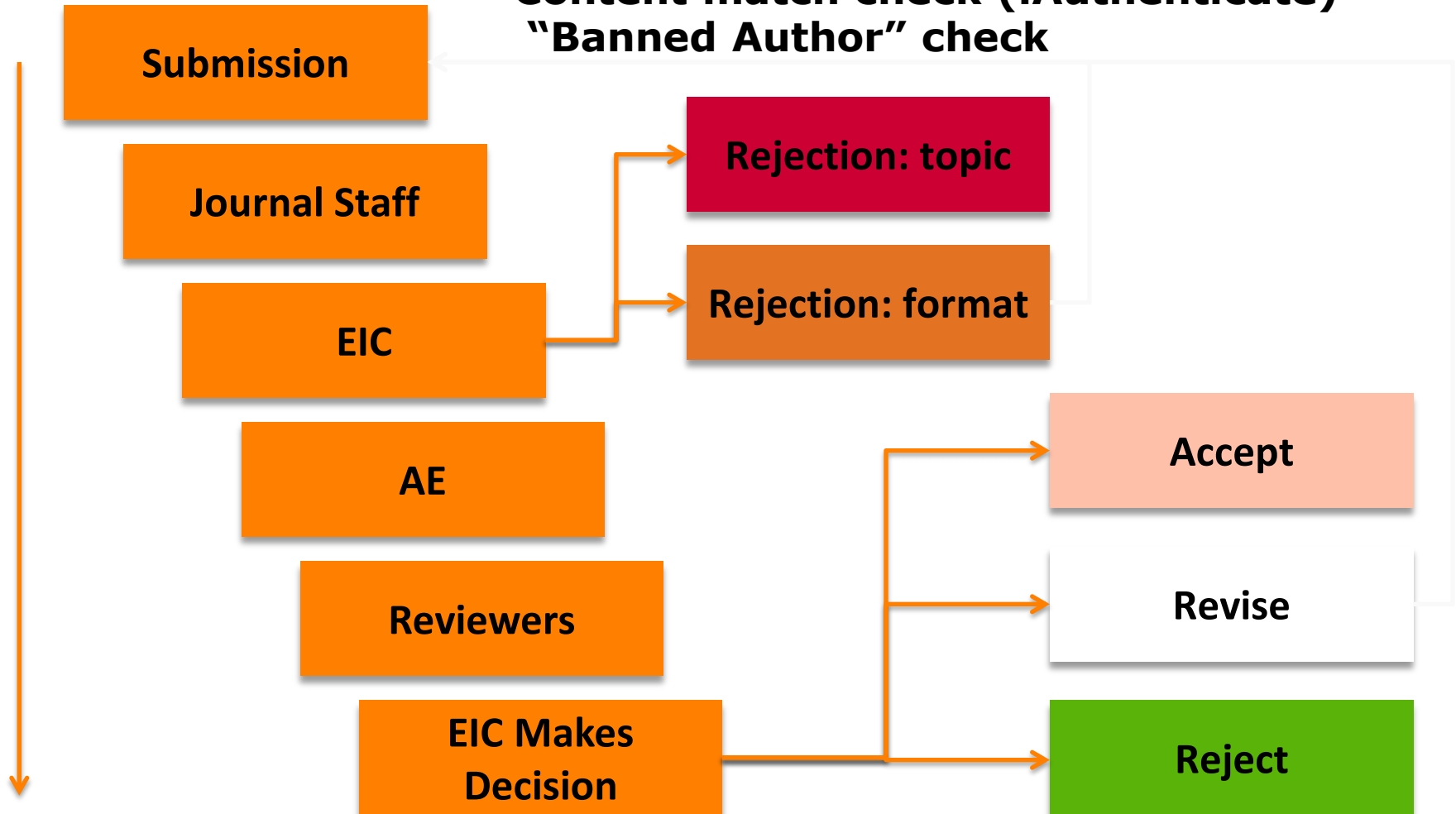
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