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*Presented by:*

*IEEE Client Services Manager*

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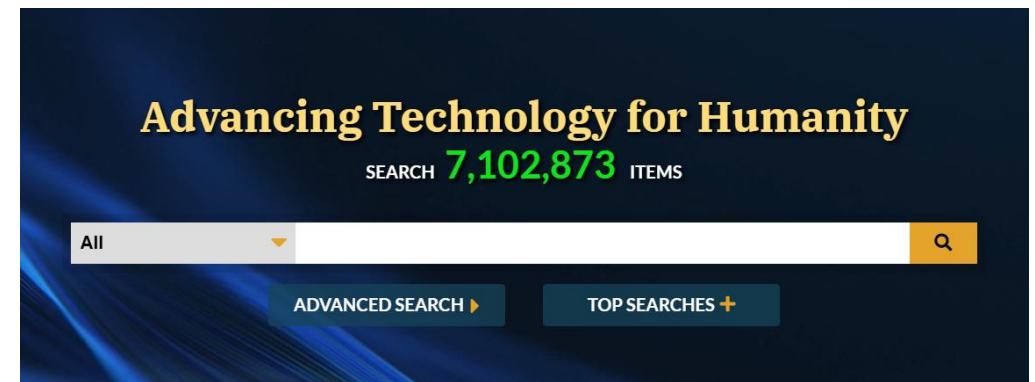
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2000 2024

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Sort By **Relevance**

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Source of i

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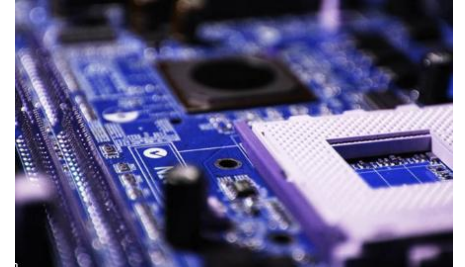
Divers of AI applications in investigated enterprises

Feedback

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## *New titles accessible via an IEEE subscription:*

- *IEEE Journal of Selected Topics in **Electromagnetics, Antennas and Propagation** (New in 2025)*
- *IEEE **Sensors Magazine** (coming in 2026)*
- *IEEE Journal on **Wireless Power Technologies** (coming in 2026)*
- *IEEE Transactions on **Robot Learning** (coming in 2026)*
- *IEEE **Computational Intelligence Letters** (coming in 2026)*
- *IEEE **Robotics and Automation Practice** (launched in Late 2025/Early 2026)*
- *IEEE **Energy Sustainability Magazine** (launched in 2025)*



\*Please note this is a tentative list and is subject to change.

# IEEE Conferences Continue to Address Growing Areas of Research in New and Emerging Technologies

IEEE conferences continue to address growing areas of research that transform our lives. Below are some examples of conferences published in 2025 covering these innovative technologies:

- 2025 Annual Conference of the **IEEE Industrial Electronics Society (IECON)**
- 2025 SC International Conference for **High Performance Computing, Networking, Storage, and Analysis**
- 2025 IEEE International Conference on **Emerging Trends in Computing and Communication (ETCOM)**
- 2025 IEEE International Conference on **Cluster Computing (CLUSTER)**
- 2025 International Conference on **Power, Energy and Innovations (ICPEI)**
- 2025 IEEE Annual Congress on **Artificial Intelligence of Things (AIoT)**
- 2025 IEEE International Conference on **Quantum Computing and Engineering (QCE)**
- 2025 IEEE International Symposium on **Mixed and Augmented Reality (ISMAR)**
- 2025 Conference on **Blockchain Research & Applications for Innovative Networks and Services (BRAINS)**
- 2025 International Conference on **Future Telecommunications and Artificial Intelligence (IC-FTAI)**
- 2025 IEEE/SEMI Conference on **Advanced Semiconductor Manufacturing (ASMC)**
- 2025 International Conference on **Smart Grid and Energy Engineering (SGEE)**
- 2025 Conference on **Cloud and Internet of Things (CIoT)**
- 2025 IEEE **International Conference on Cloud Engineering (IC2E)**



2024 Forum for Innovative Sustainable Transportation Systems, California, USA

Over 200,000 new papers posted in 2025!



Note: This is a partial listing of new conferences and is not all-inclusive or final. Information is subject to change.

# New IEEE Standards

Standards play a crucial role in all areas of our lives, ensuring that new and emerging technologies operate safely, securely, and sustainably. IEEE introduces new standards and updated versions of existing standards every year.

## A Sample of Recently Added Standards:

- IEEE 1012-2024—IEEE Standard for System, Software, and Hardware Verification and Validation
- IEEE C57.12.44-2024—IEEE Standard Requirements for Secondary Network Protectors
- IEEE 2247.4—IEEE Recommended Practice for Ethically Aligned Design of Artificial Intelligence (AI) in Adaptive Instructional Systems
- IEEE Std 1680.2-2024—IEEE Standard for Environmental Assessment of Imaging Equipment
- IEEE 2413.3—IEEE Guide for Hydropower Energy Internet of Things
- IEEE 2418.5—IEEE Guide for Blockchain in Power and Energy Systems
- IEEE 2840-2024—IEEE Standard for Responsible AI Licensing
- IEEE P2686/D9.4, Aug 2024—IEEE Draft Recommended Practice for Battery Management Systems in Energy Storage Applications
- IEEE Std 7009-2024—IEEE Standard for Fail-Safe Design of Autonomous and Semi-Autonomous Systems
- IEEE Std 7014-2024—IEEE Standard for Ethical Considerations in Emulated Empathy in Autonomous and Intelligent Systems
- IEEE P1857.11/D3, Jun 2024—IEEE Draft Standard for Neural Network-Based Image Coding
- IEEE P3345/D7.1, Jun 2024—IEEE Draft Guide for Terminology and Classification of Electric Vehicle Charging Robots
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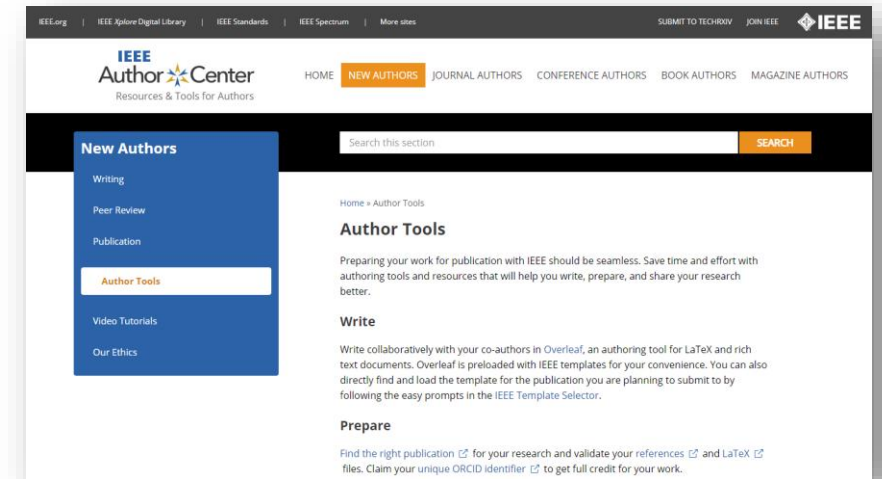
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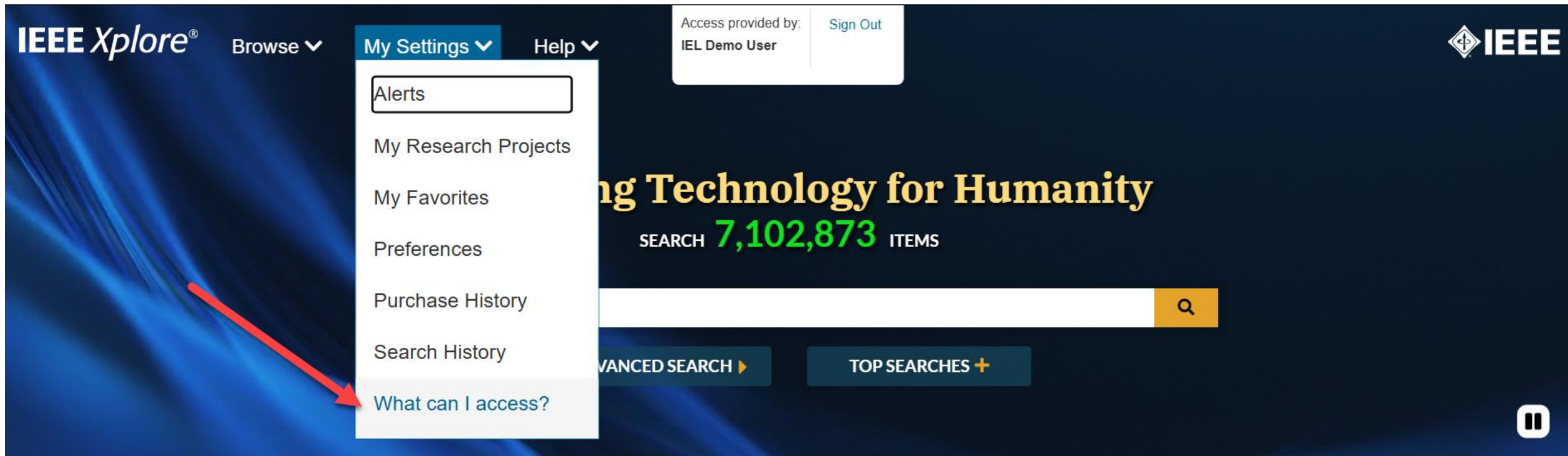


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Jiang Zhu; Zhenyu Chen  
2022 International Conference on Artificial Intelligence in Everything (AIE)  
Year: 2022 | Conference Paper | Publisher: IEEE  
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**Improving Security of Web-Based Application Using ModSecurity and Reverse Proxy in Web Application Firewall**  
Rizki Agung Muzaki; Obrina Candra Briliyant; Maulana Andika Hasditama; Hamzah Ritchi  
2020 International Workshop on Big Data and Information Security (IW BIS)  
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Jiang Zhu; Zhenyu Chen  
2022 International Conference on Artificial  
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Standard Type 

Publication Topics 


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**IEEE Draft Standard for Wireless Access in Vehicular Environments--Security Services for Applications and Management Messages Amendment 2: Protocol Data Unit (PDU) Functional Types and Encryption Key Management** 



IEEE P1609.2b/D2, September 2018  
Year: 2018 | Standard | Publisher: IEEE

▶ Abstract  


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**The Design and Implementation of Security Defense Technology Based on Mandatory Running Control** 

Liu Jizhen; Wu Kehe; Zhang Tong; Ma Gang  
2009 Fifth International Conference on Information Assurance and Security  
Year: 2009 | Volume: 1 | Conference Paper | Publisher: IEEE  
Cited by: Papers (3)

▶ Abstract [HTML](#)  

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**Research and Design of Robot Application System Security Protection in Electric Power Business Hall based on Artificial Intelligence** 

Ke Qiao; Hona Yan; Xi Jiana; Xuesona Dona; Yunfena Zou; Yana Yu


# PDF & HTML Article Formats

## Holistic Web Application Security Visualization for Multi-Project and Multi-Phase Dynamic Application Security Test Results

Publisher: IEEE

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PDF

Ferda Özdemir Sönmez  ; Banu Günel Kiliç  All Authors



3

Paper  
Citations

2653

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### Abstract

Document Sections

- I. Introduction
- II. Related Work
- III. Process Description
- IV. Holistic Web Application Security Vulnerability Visualization, HWAS-V
- V. Case Study and HWAS-V

### Abstract:

As the number of web applications and the corresponding number and sophistication of the threats increases, creating new tools that are efficient and accessible becomes essential. Although there is much research concentrating on network security visualizations, there are only a few studies considering the web application vulnerabilities' possible visualization options. Consequently, to fill this gap, this research centers around a novel perception configuration to improve web application vulnerability monitoring. This study forms a generic data structure based on data sources that might be readily associated and commonly available for the majority of the web applications. The primary contribution of this study is a new dashboard tool for visualizing dynamic application security test results. Another contribution is the metrics/measures that the tool presents. The paper also describes a validation study in which participants answered quiz questions upon using the tool prototype. For the case study, sample data has been generated using the OWASP ZAP scanner tool and a prototype has been implemented to be used for validation purposes. This study allows the investigation of fifty metrics/measures for the multi-project/phase environment that enhances its benefits if the user aims to monitor a series of analyses' results and the changes between them for more than one web project.

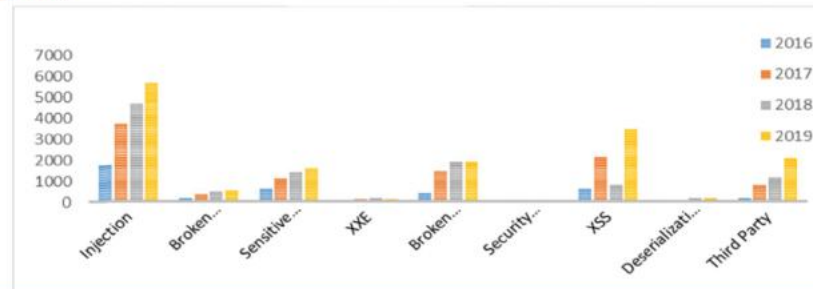
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## Figures

FIGURE 1.

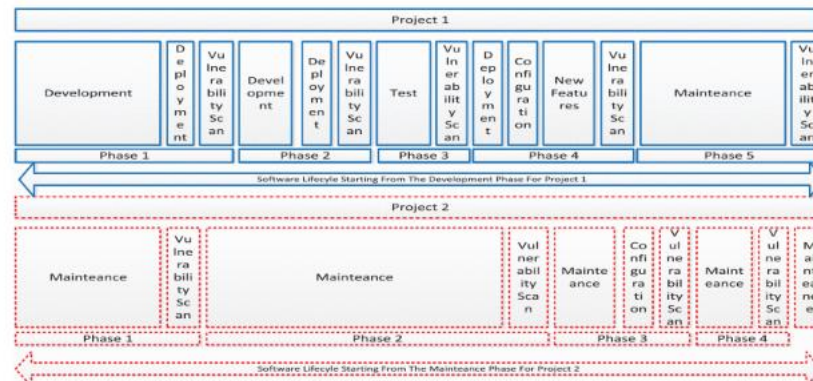
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The state of web application vulnerabilities between 2016 and 2019 [3] <sup>1</sup>.

FIGURE 2.

» Show in Context



# Right Click on Equations: Copy Source Code and Zoom In

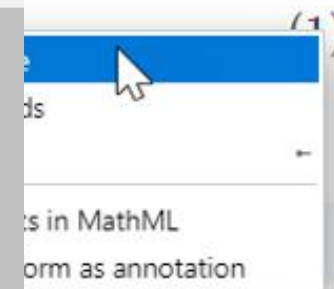
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\begin{equation*
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(points);  $I_q$  - is the

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Metrics

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1. K. A. Demir, "A survey on challenges of software project management" in Software Engineering Research and Practice, Las Vegas, NV, USA:Stylus Publishing, 2009.  
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2. B. Molnar and A. Tarcsi, "Architecture and system design issues of contemporary web-based information systems", *Proc. 5th Int. Conf. Softw. Knowl. Inf. Ind. Manage. Appl. (SKIMA)*, pp. 1-8, Sep. 2011.  
▶ Show in Context   View Article    Google Scholar [↗](#)
3. *The State of Web Application Vulnerabilities in 2019*, Jan. 2020, [online] Available: <https://www.imperva.com/blog/the-state-of-vulnerabilities-in-2019/>.  
▶ Show in Context   Google Scholar [↗](#)
4. *Software Testing Tips and Tricks*, Jan. 2021, [online] Available: <https://www.softwaretesttips.com/web-application-security-testing/>.  
▶ Show in Context   Google Scholar [↗](#)
5. *Acunetix*, Jan. 2019, [online] Available: <https://www.acunetix.com/>.  
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Jiang Zhu; Zhenyu Chen  
2022 International Conference on Artificial Intelligence in Everything (AIE)  
Year: 2022 | Conference Paper | Publisher: IEEE  
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**Improving Security of Web-Based Application Using ModSecurity and Reverse Proxy in Web Application Firewall** 

Rizki Agung Muzaki; Obrina Candra Briliyant; Maulana Andika Hasditama; Hamzah Ritchi  
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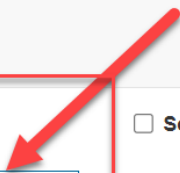
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Conferences (22,505)  Journals (4,366)  Magazines (1,022)  Books (444)


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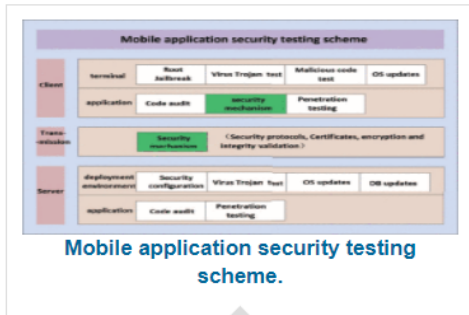
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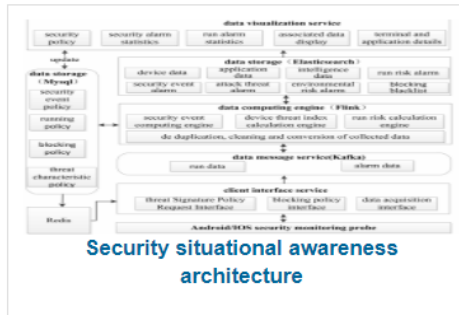
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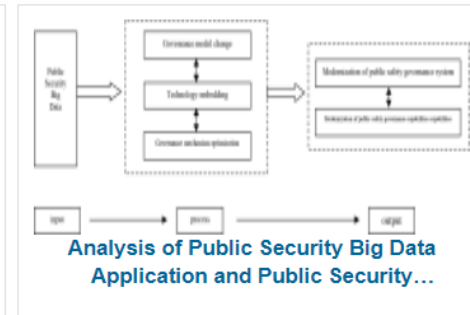
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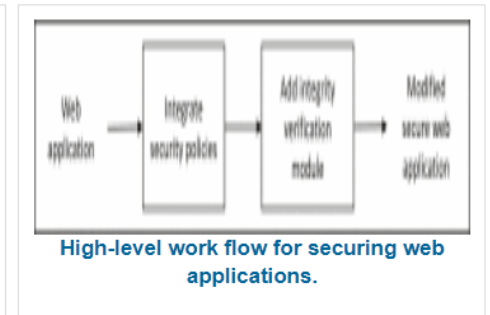
Mobile application security testing scheme.



Security situational awareness architecture



Analysis of Public Security Big Data Application and Public Security...



High-level work flow for securing web applications.



## Research on risk analysis and security testing technology of mobile application in power system

Jing Guo; Haitao Jiang; Chao Zhou

2017

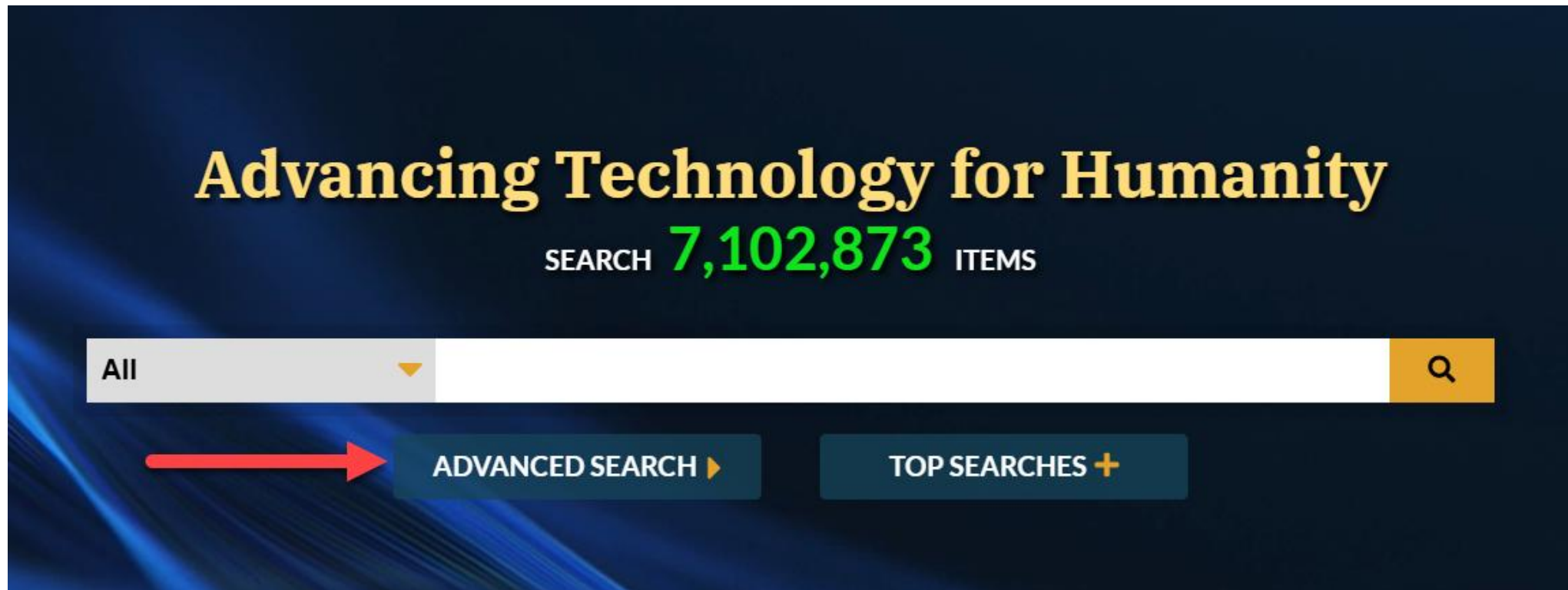
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Abstract

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Fig. 3

# Full-Text Searching with Advanced Search



# Advanced Search: Search by Fields such as Affiliation, Funding Agency, and ORCID ID

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Search Term		in	Full Text Only	<span>?</span>
"internet of things" OR IOT				
AND	Search Term	in	Author Affiliations	<span>↑</span> <span>×</span>
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Operators

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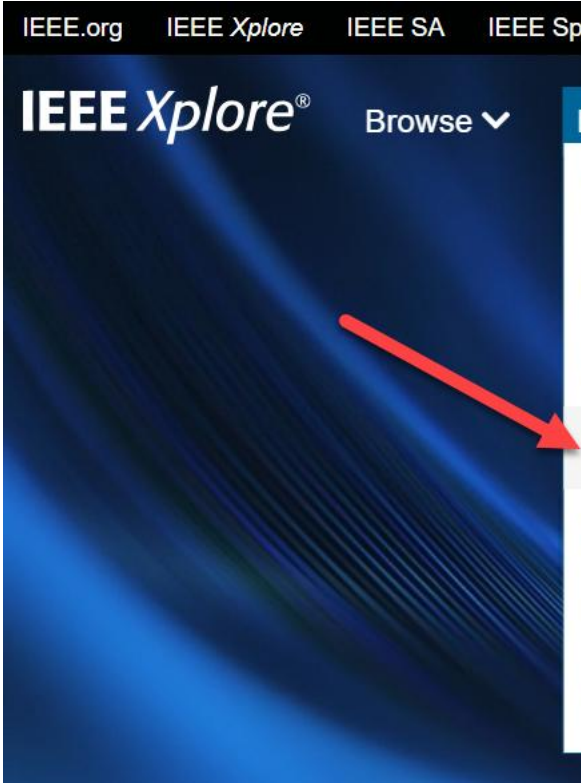
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# Personal Account: Features to Save IEEE Content

- Export articles to My Research Projects (up to 15 Projects with 1,000 documents)
- Saving a Search Alert: Limit of 15 saved searches, results delivered weekly
- Set defaults for number of results per page, citation downloads, and sort by
- Content, citation, and author alerts
- My Favorite Journal & Magazine bookmarks
- Search History: IEEE *Xplore* saves your last 100 searches

# Set Preferences with an IEEE Xplore Personal Account



### Preferences [?](#)

**Search Options**

Search

All Metadata | Full Text & Metadata | Full Text Only [?](#)

Search History Recording: **On** | Off

**Results Layout**

Title Only | **Title & Citation** | Title, Citation & Abstract

Results Per Page: 50 | Sort By: Relevance

**Publisher**

ALL

IEEE

IET

OUP

MIT Press

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**Citation Download Options**

Include: Citation Only | Citation & Abstract | **Plain Text** | BibTex | RIS | RefWorks

Format: Plain Text | BibTex | RIS | RefWorks

**Email Alert Options**

This will only be used for receiving e-mail alerts from IEEE Xplore. Changing this will not affect the e-mail address associated with your IEEE Account. [Learn more](#)



Update



# My Research Projects

Create up to 15 Projects with 1,000 articles each to organize your research

The screenshot shows the IEEE Xplore search interface. A modal window titled "My Research Projects" is open, displaying a list of selected items for export. The modal includes a search bar, a character count (21 / 1,000), and a "Save" button. Red arrows point to the "Export" button in the top right, the "My Research Projects" tab in the modal, the "Save" button in the modal, and the search filters on the left side of the page.

Search within results

Showing 1-50 of 130,470 results for application NE

Conferences (91,575)

Standards (2,665)

Search

Documents Images (Beta)

Show

All Results

Subscribed Content

Open Access Only

Year

Range Single Year

1885 2025

Clear Apply

Author

Affiliation

Publication Title

Results Citations To Collaborate My Research Projects

You have selected 2 item(s) for export to My Research Projects.

Application Security

App Security research

Max 1,000 Characters 21 / 1,000

Add Document Tags Enter

Max 50 Characters 0 / 50

Create a New Project Save

Export Set Search Alerts Search History

Books (4,826)

IEEE Guide to Autonomous Vehicle Technology eLEARNING COURSE PROGRAM LEARN MORE IEEE

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# Access My Research Projects

Create new Projects and edit existing Projects



## My Research Projects ?

Create a New Project

### Application Security

2 Document(s)

Project Created: Jul 14, 2021

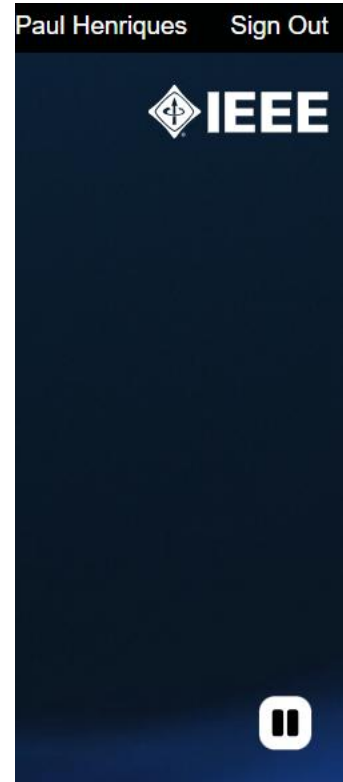
Documents of interest regarding security of applications.

### Cloud Computing

1 Document(s)

Project Created: Jul 13, 2021

Project focusing on cloud computing topics



# My Favorites: Journals and Magazines

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## My Favorite Journals & Magazines ?


**Content Type** ^

- Journals (2)
- Magazines (1)

**Publisher** v

- IEEE Access
- IEEE Transactions on Antennas and Propagation
- IEEE Technology and Society Magazine

What can I access?



# Personal Account: Saved Search Alerts

*Get new content as it is published*

The screenshot shows the IEEE Xplore search interface. At the top right, there are buttons for 'Export', 'Set Search Alerts', and 'Search History'. A red arrow points to the 'Set Search Alerts' button. In the center, a modal dialog box titled 'Set Search Alerts' is open. It contains a text input field for 'Search Alert Name' with the value 'application security' highlighted in yellow. Below it is an 'Email Address' field with the value 'paulshenriques@gmail.com'. At the bottom right of the dialog are 'Cancel' and 'Save' buttons, with a red arrow pointing to the 'Save' button. The background shows search results for 'application NI', including filters for 'Conferences (83,920)' and 'Standards (2,442)', and a search bar with 'Search within results'.

# Personal Account: Content Alerts

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Journals & Magazines

Content Type

- Journals (228)
- Magazines (51)
- Newsletters (1)

Publisher

- IEEE Access
- IEEE Aerospace and Electronic Systems Magazine

Notify Me:  When new issue is posted  When new issue is complete

Update

Feedback

# Personal Account: Citation Alerts

Holistic Web Application Security Visualization for Multi-Project and Multi-Phase Dynamic Application Security Test Results

✓ This document has been added to Citation Alerts

[Manage Citation Alerts](#)



Publisher: IEEE

[Cite This](#)

[PDF](#)

[Back to Results](#) | [Next >](#)



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[Standards](#)

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Miroslav Lazić; Dragana Petrović; Bojan Plavšić; Bojana Jovanović; Željko Kovačević

Security Vulnerability  
Visualization, HWAS-V

V. Case Study and HWAS-V

case study, sample data has been generated using the OWASP ZAP scanner tool and a prototype has been implemented to be used for validation purposes. This study allows the investigation of fifty metrics/measures for the multi-project/phase environment that enhances its benefits if the user aims to monitor a series of analyses' results and the changes between them

2021 International Symposium ELMAR  
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# Personal Account: Search History

*Combine searches and export search history*

## Search History

Search History Recording  On  Off

Search History provides an authoritative record of your queries. You can:

- Run, modify, and combine previous searches
- Review refinements and other details of a previous search
- Store up to 100 searches

Select multiple searches to combine them together.

Search

80 AND 79

Keyword wildcards: 0

AND  
OR  
NOT

Set # Search Query

### Tips

Only the 100 most recent searches are displayed

Searches including "NEAR" or "ONEAR" operators cannot be combined

50 Keyword limit for combined searches

8 Wildcard limit for combined searches

Search alerts are not available for combined searches

Export

Print

Details Results | Date & Time

<input checked="" type="checkbox"/> 80	"smart grid"	73504   Jan 13, 2023, 2:29:30 PM	X
<input checked="" type="checkbox"/> 79	control systems	2853576   Jan 13, 2023, 2:29:21 PM	X
<input type="checkbox"/> 78	application NEAR/5 secur*	102589   Jan 13, 2023, 2:06:26 PM	X

enriques Sign Out



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*Indexed and searchable with helpful content on topics for users, librarians, and administrators*

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