



Wie finde ich das Thema meiner Studienarbeit? IEEE *Xplore* Datenbank Recherche

Eszter Lukács
IEEE Client Services Manager





How to find a Topic for my Thesis?

IEEE Xplore Database Research

Eszter Lukács
IEEE Client Services Manager



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IEEE PES Scholar Razan Ghabin, an undergrad at Texas A&M, working on a water purification project in EL Salvador



IEEE Smart Village project empowering villages in sub-saharan Africa

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01.12.2022 | First Steps in Python | Max Rosenthal

15.12.2022 | Proper Plots with LaTeX | Benjamin Hoepfner

12.01.2023 | MATLAB - Crash Course | Eric Glende

26.01.2023 | Electric Circuit Simulation with LTspice | Mathias Magdowski

workshops

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Workshops WS 2022-2023

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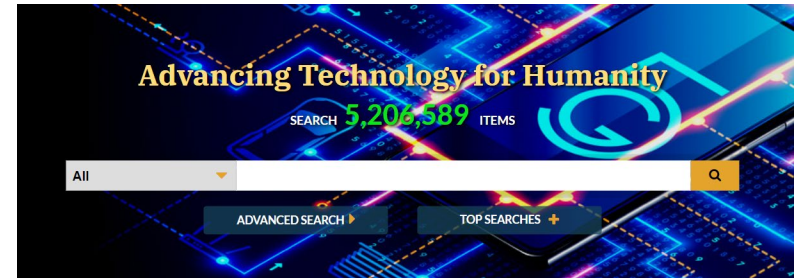
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<https://ieeexplore.ieee.org>



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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 2021 covering these innovative technologies:

- 2021 IEEE International **Solid-State Circuits** Conference (ISSCC)
- 2021 4th International Conference on **Artificial Intelligence** and **Big Data**
- 2021 IEEE 93rd **Vehicular Technology** Conference (VTC2021-Spring)
- 2021 IEEE International Conference on **Acoustics, Speech and Signal Processing** (ICASSP)
- 2021 32nd Annual SEMI Advanced **Semiconductor Manufacturing** Conference (ASMC)
- 2021 7th International Conference on **Automation, Robotics** and Applications (ICARA)
- 2021 IEEE 2nd International Conference on Big Data, AI, and **Internet of Things** Engineering
- 2021 IEEE International Conference on **Blockchain** and **Cryptocurrency** (ICBC)
- 2021 8th IEEE International Conference on **Cyber Security** and **Cloud Computing** (CSCloud)
- 2021 Sixteenth International Conference on **Ecological Vehicles** and **Renewable Energies**
- 2021 IEEE Power & Energy Society Innovative **Smart Grid** Technologies Conference (ISGT)
- 2021 5th International Conference on **Internet of Things** and Applications (IoT)



The top-cited publications in the field are in IEEE *Xplore*

Journal Citation Reports® by Impact Factor

Each year, the Journal Citation Reports® (JCR) from Clarivate Analytics examines the impact of scholarly journals by determining how often a journal's articles are cited by later research. are:

- 27 of the top 30 journals in EE
- 21 of the top 25 journals in Telecommunications
- All of the top 5 journals in Automation and Control Systems
- 4 of the top 5 journals in Computer Science—Information Systems
- 4 of the top 5 journals in Computer Science—Hardware & Architecture
- 3 of the top 5 journals in Computer Science—Artificial Intelligence
- 3 of the top 5 journals in Computer Science—Cybernetics
- 3 of the top 5 journals in Computer Science—Software Engineering
- 3 of the top 5 journals in Imaging Science & Photographic Technology
- 3 of the top 5 journals in Transportation Science & Technology



IEEE TRANSACTIONS ON
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A PUBLICATION OF THE IEEE COMPUTATIONAL INTELLIGENCE SOCIETY
www.ieee-cis.org/pubs/tec

IEEE TRANSACTIONS ON
**INDUSTRIAL
INFORMATICS**

A PUBLICATION OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY

IEEE TRANSACTIONS ON
**GEOSCIENCE AND
REMOTE SENSING**

A PUBLICATION OF THE IEEE GEOSCIENCE AND REMOTE SENSING SOCIETY

Source: 2019 Journal Citation Reports (Clarivate Analytics, 2018) Based on the 2017 study, released June 2020

Journal Citation Reports present quantifiable statistical data that provide a systematic, objective way to evaluate the world's leading journals.

Selecting A Research Topic

Choose An Area You Are Interested In

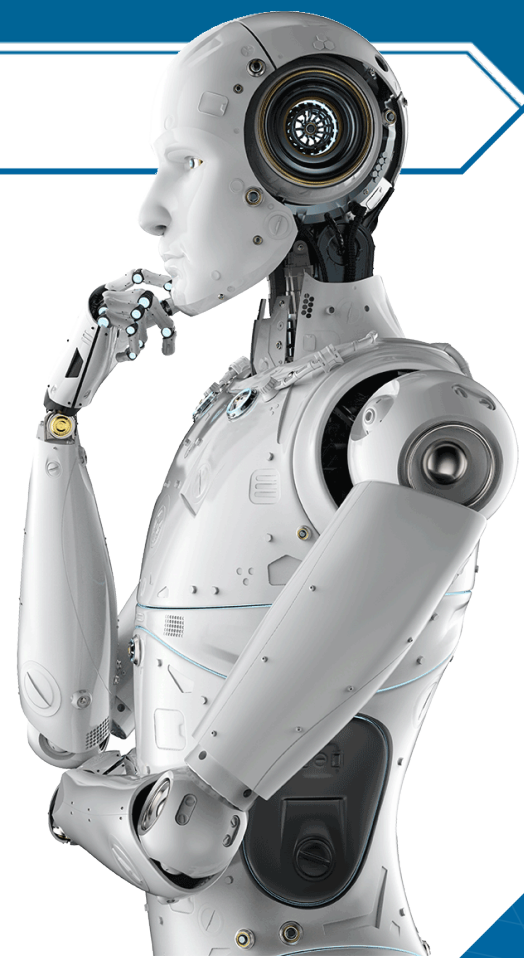
The research process is more relevant if you care about your topic.

Introduction to the Topic

Reading a **broad summary** enables you to get an **overview** of the topic and see how your idea relates to broader, narrower, and related issues.

Background Study

Background reading can help you choose and **limit the scope** of your topic as well as determine if there is a **research gap**.



Choose An Area You Are Interested In

IEEE Resources to help select a research area

- New Technology Connections: IEEE Future Directions
<https://www.ieee.org/about/technologies.html>
- IEEE Spectrum Magazine
<https://spectrum.ieee.org/>
- Trending Content on IEEE *Xplore* Digital Library
<https://ieeexplore.ieee.org/>

IEEE Future Directions' New Initiatives



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IEEE Future Directions considers the research and development work as it incubates and promotes technologies that will shape social, and governmental, but not political, future. Articles in the IEEE Future Directions Newsletter are

2022

- [January](#) (PDF, 792 KB)

IEEE Future Directions podcasts

IEEE Future Directions interviews top subject-matter experts in the field through its Q&A podcast series.



IEEE Future Directions' Small Projects



Fields of Interest: Smart Lighting systems Technology; Visual Light Communication and Protocols; Connected and Communicating Lighting Systems; Lighting systems for smart cities, smart buildings, smart transport; Smart Lighting Standards; Human-centric Lighting; Illumination impacts (human being, ecosystem, energy, environment, natural resources); Lighting systems for developing countries; Lighting Industry Development and consumer satisfaction; Train for Lighting and Illumination.



Technical Activities: Coordinate/Engage with small satellites (CubeSats) global development, Develop Ground Stations to operate the satellites, Network the Ground Stations



Fields of Interest: Accelerate the missing technology components and encourage integrated telepresence systems. Create new interfaces for teleoperations. Operate/manipulate equipment as if present in cabin/control room. Move heavy equipment, drive agricultural machines, perform tele-medicine.

IEEE Spectrum Magazine Website

A good source of inspiration

IEEE.org | IEEE Xplore | IEEE-SA | **IEEE Spectrum** | More Sites

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Advancing Technology for Humanity

SEARCH **5,383,607** ITEMS

All ▾

Q

ADVANCED SEARCH ▸

TOP SEARCHES +

IEEE Spectrum Magazine: Annual Top Tech Issue

Look Out for Apple's AR Glasses

With head-up displays, cameras, inertial sensors, and lidar on board, Apple's augmented-reality glasses could redefine wearables

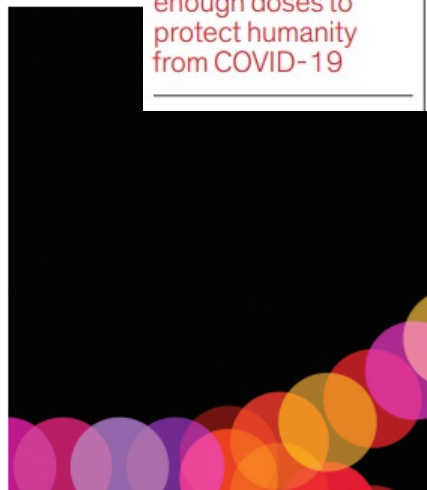


Deep Learning at the Speed of Light

Lightmatter bets that optical computing can solve AI's efficiency problem

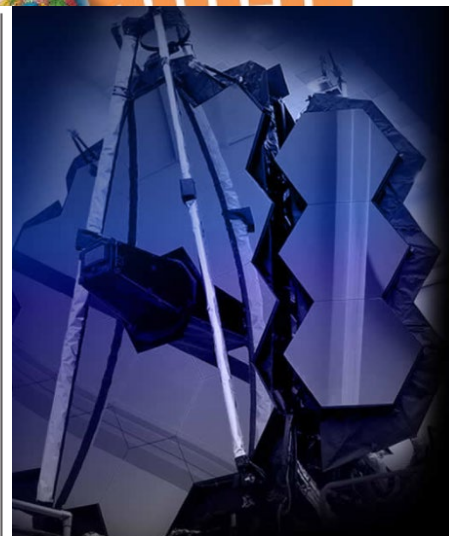
This Is How to Vaccinate the World

We can manufacture and distribute enough doses to protect humanity from COVID-19



Where No One Has Seen Before

The James Webb Space Telescope will let us see back almost to the big bang



IEEE *Xplore*: Trending Search Terms & Content

The screenshot shows the IEEE Xplore website interface. At the top, there is a navigation bar with links to IEEE.org, IEEE Xplore, IEEE-SA, IEEE Spectrum, and More Sites. On the right side of the navigation bar are links for Cart and Create Account. Below the navigation bar, the IEEE Xplore logo is on the left, and a user menu is on the right showing 'Access provided by: IEL Demo User' and a 'Sign Out' button. The main banner features the text 'Advancing Technology for Humanity' in a stylized font. Below this, it says 'SEARCH 5,383,607 ITEMS'. A search bar is present with a dropdown menu set to 'All' and a search icon. Below the search bar are two buttons: 'ADVANCED SEARCH' and 'TOP SEARCHES +'. A large red arrow points from the search results count area down to the 'TOP SEARCHES +' button.

IEEE.org | IEEE *Xplore* | IEEE-SA | IEEE Spectrum | More Sites

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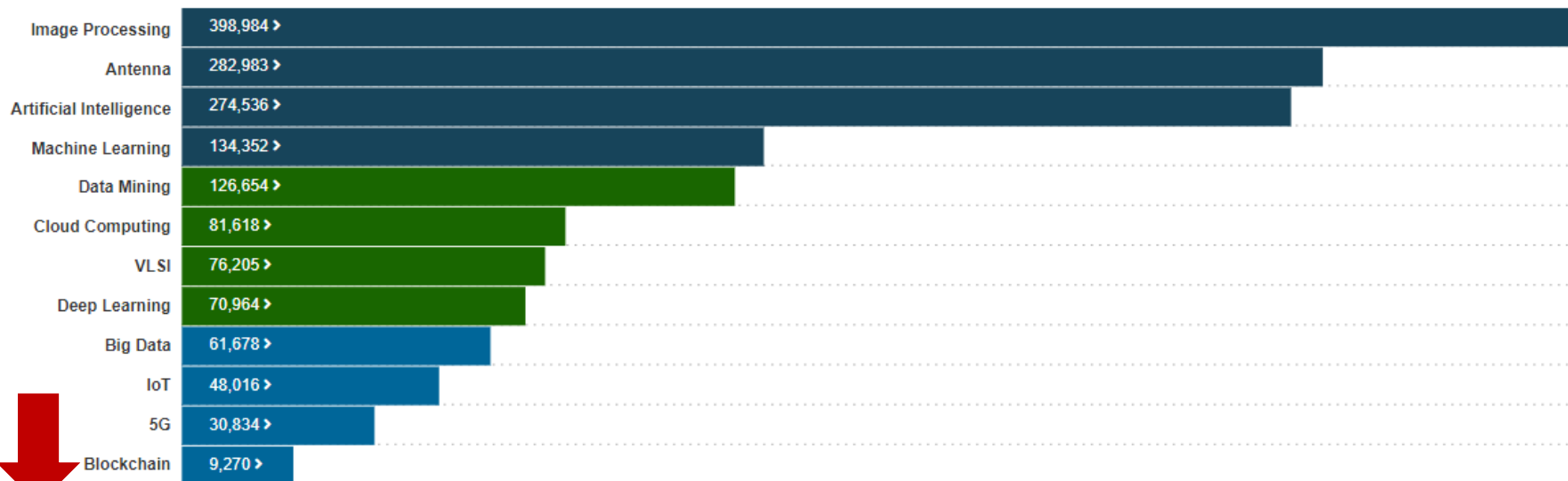
SEARCH **5,383,607** ITEMS

All [dropdown arrow] [search icon]

ADVANCED SEARCH ▸ TOP SEARCHES +

Trending Search Terms

Top Searches and Matching Documents ?



Show All ▶

Trending Search Terms

Top Searches and Popular Content

Top Search Terms ?

Graphic

List

1. machine learning
2. IoT
3. Artificial Intelligence
4. Image Processing
5. Cloud Computing
6. 5G
7. Deep Learning
8. Blockchain
9. Antenna
10. Data Mining

11. Big Data
12. VLSI
13. UAV
14. Smart Grid
15. Face Recognition
16. AI
17. Edge Computing
18. Cyber Security
19. Object Detection
20. FPGA

21. ISSCC
22. Reinforcement Learning
23. NOMA
24. 6G
25. Computer Vision

Additional Tips for Selecting a Research Area

- ▶ Review the **topic selection guidelines** outlined in your assignment
- ▶ **Ask your professor** or teaching assistant for suggestions
- ▶ Hold a **brainstorming** session with your classmates



DEEP LEARNING

<https://www.ieee.org/conferences/>

IEEE Conference Search Results

deep learning 

☐ Search virtual events (242 characters left) 



2022 IEEE International Conference on Image Processing, Computer Vision and Machine Learning (ICICML2022)


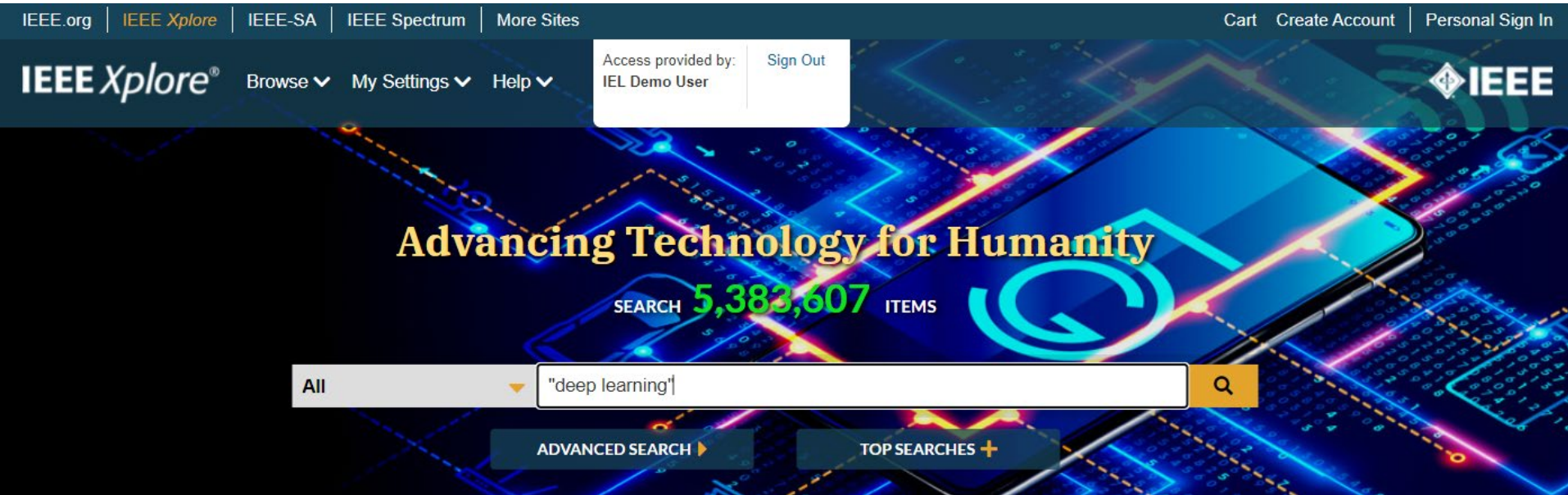
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Image processing:	Computer vision:	Machine learning:
Pattern recognition and analysis	Big data and computer vision	Intelligent data analysis
Face recognition	Biometrics, biomedical image analysis	Modeling and identification
Image feature extraction	Remote sensing image	Multitasking and migration study
Image processing	Computational photography	Machine learning algorithms
Image segmentation	Optimization and method of study	Deep learning
Object recognition	Sensor and display	Artificial intelligence

Introduction to the Topic

Search IEEE *Xplore* for “deep learning”



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Advancing Technology for Humanity

SEARCH **5,383,607** ITEMS

All ▾ "deep learning" 🔍

ADVANCED SEARCH ▶ | TOP SEARCHES +

The Difference Between a Magazine and a Journal

IEEE magazines articles fall into three main categories:

- Features:** Technical research articles, tutorials, and non-technical general-interest articles
- Reviews:** Reviews of technical books and new products
- Columns and departments:** Editorials, society and industry news, technology perspectives, conference updates, profiles, interviews, and event calendars

Magazines are different than journals in significant ways:

- Feature articles are shorter, with a broader appeal and fewer equations and references.
- Articles are more **tutorial** in nature. Articles are written **to appeal to non-experts as well as experts in the field.**
- Magazines look different, with visually appealing covers and photographs throughout the issue.



Showing 1-25 of 52,064 for "deep learning" x

☐ Conferences (37,230)☐ Journals (11,894)☐ Early Access Articles (2,233)☐ Magazines (539)☐ Books (166)☐ Courses (2)

Show

Show

☒ All Results☐ Subscribed Content ?☐ Open Access Only☐ Select All on Page

Sort By: Relevance ▾

Year ▾

Author ▾

Affiliation ▾

Publication Title ▾

☐ Runway Detection and Localization in Aerial Images using Deep Learning

Javeria Akbar; Muhammad Shahzad; Muhammad Imran Malik; Adnan Ul-Hasan; Faisal Shafait
2019 Digital Image Computing: Techniques and Applications (DICTA)
Year: 2019 | Conference Paper | Publisher: IEEE
Cited by: Papers (1)

▶ Abstract

HTML

☐ Evaluation of Deep Learning Techniques in Sentiment Analysis from Twitter Data

Dionysis Goularas; Sani Kamis
2019 International Conference on Deep Learning and Machine Learning in Emerging Applications (Deep-ML)
Year: 2019 | Conference Paper | Publisher: IEEE
Cited by: Papers (13)

Search within results



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Showing 1-25 of 539 for "deep learning"×

▼ Filters Applied: Magazines×

☐ Conferences (37,230)

☐ Journals (11,894)

☐ Early Access Articles (2,233)

☐ Books (166)

☐ Courses (2)

Show

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- ☐ Subscribed Content ?
- ☐ Open Access Only

Year



Author



☐ Select All on Page

- ☐ **Learning IoT in Edge: Deep Learning for the Internet of Things with E**
He Li; Kaoru Ota; Mianxiong Dong
IEEE Network
Year: 2018 | Volume: 32, Issue: 1 | Magazine Article | Publisher: IEEE
Cited by: Papers (324)

► Abstract

HTML



Sort By: Most Popular ▾

- Relevance
- Newest First
- Oldest First
- Most Cited [By Papers]
- Most Cited [By Patents]
- ✓ Most Popular
- Publication Title A-Z
- Publication Title Z-A

Scroll through the Search Results

Learning IoT in Edge: Deep Learning for the Internet of Things With Edge Computing

He Li; Kaoru Ota; Mianxiong Dong

IEEE Network

Year: 2018 | Volume: 32, Issue: 1 | Magazine Article | Publisher: IEEE

Cited by: Papers (324)

Deep Learning in Remote Sensing: A Comprehensive Review and List of Resources

Xiao Xiang Zhu; Devis Tuia; Lichao Mou; Gui-Song Xia; Liangpei Zhang; Feng Xu; Friedrich Fraundorfer

IEEE Geoscience and Remote Sensing Magazine

Year: 2017 | Volume: 5, Issue: 4 | Magazine Article | Publisher: IEEE

Cited by: Papers (283)

Deep Learning for Physical-Layer 5G Wireless Techniques: Opportunities, Challenges and Solutions

Hongji Huang; Song Guo; Guan Gui; Zhen Yang; Jianhua Zhang; Hikmet Sari; Fumiyuki Adachi

IEEE Wireless Communications

Year: 2020 | Volume: 27, Issue: 1 | Magazine Article | Publisher: IEEE

Cited by: Papers (75)

The Future of Deep Learning Is Photonic: Reducing the energy needs of neural networks might require computing with light

Ryan Hamerly

IEEE Spectrum

Year: 2021 | Volume: 58, Issue: 7 | Magazine Article | Publisher: IEEE

Topics:

Internet of Things

Edge Computing

Remote Sensing

5G

Photonics

Review the Publications Topic facet on the search results page

Publication Topics

Enter Topics

- ☐ learning (artificial intelligence) (304)
- ☐ neural nets (111)
- ☐ telecommunication computing (40)
- ☐ mobile computing (37)
- ☐ convolutional neural nets (36)
- ☐ cloud computing (34)
- ☐ Internet of Things (31)
- ☐ feature extraction (31)
- ☐ 5G mobile communication (24)
- ☐ recurrent neural nets (24)
- ☐ optimisation (22)
- ☐ data analysis (18)
- ☐ deep learning (artificial intelligence) (18)
- ☐ computer vision (17)
- ☐ telecommunication traffic (17)
- ☐ Big Data (16)
- ☐ artificial intelligence (16)
- ☐ image classification (14)
- ☐ object detection (14)

Related Terms:
Artificial Intelligence
Neural Nets

Related Technologies:
Internet of Things
Cloud Computing
Big Data
5G

Read the Introduction from a couple of magazine articles

The technique that has empowered these stunning developments is called deep learning, a term that refers to mathematical models known as artificial neural networks. Deep learning is a subfield of machine learning, a branch of computer science based on fitting complex models to data.

Deep learning, which is to say artificial neural networks with many hidden layers, is regularly stunning us with solutions to realworld problems. And it is doing that in more and more realms, including natural-language processing, fraud detection, image recognition, and autonomous driving. Indeed, these neural networks are getting better by the day.

Broader Terms:
Machine Learning
Artificial Intelligence

Related Term:
Artificial Neural Networks

Applications:
Natural Language Processing
Fraud Detection
Image Recognition
Autonomous Driving

Background Study

IEEE Xplore has a variety of search options

Global Search, Advanced Search, Command Search

The screenshot displays the IEEE Xplore search interface. At the top, the text "Advancing Technology for Humanity" is shown in a stylized font. Below this, a search bar contains the text "SEARCH 5,316,681 ITEMS". A green callout box labeled "Global Search" points to the search bar. Below the search bar, there is a dropdown menu currently set to "All". Below the dropdown menu, there are two buttons: "ADVANCED SEARCH" and "TOP SEARCHES +". A green callout box labeled "Advanced Search" points to the "ADVANCED SEARCH" button. Another green callout box labeled "Command Search" points to the "TOP SEARCHES +" button.

IEEE Xplore:

An Enhanced Search Experience

	Global Search	Advanced Search	Command Search
Boolean Operators (AND/OR/NOT)	Yes	Yes	Yes
Proximity Operators (NEAR/ONEAR)	Yes	Yes	Yes
Field Searching	Yes	Yes (using drop down menus)	Yes (using drop down menus)

Proximity Operators

Operator	Syntax	Find Results That...
NEAR	x NEAR/# y	<p>Match expression x within # words of y (<i>x can appear before or after y</i>)</p> <p>Example: implantable NEAR/5 cardiac</p> <p>Finds articles with the word <i>implantable</i> within five words of <i>cardiac</i>; <i>cardiac</i> can come before or after <i>implantable</i></p>
ONEAR	x ONEAR/# y	<p>Match expression x <i>before</i> and within # words of y</p> <p>Example: implantable ONEAR/5 cardiac</p> <p>Finds articles with the word <i>implantable</i> within five words of <i>cardiac</i>; but <i>implantable</i> must come before <i>cardiac</i></p>

Note: Complex Boolean queries can be nested in proximity statements

EXAMPLE: (“self driving” OR autonomous) NEAR/2 (car OR vehicle)

Limit of 20 terms in a search clause

(Items to the right of a Boolean operator)

(wearable OR patch OR “body worn” OR “smart watch*” OR smartwatch*)

Search
Clause

AND

(health* OR medtech OR patient OR biomed* OR medical OR medicine)

Search
Clause

AND

(sensor OR biosensor OR acceleromet* OR wireless OR mobile OR remote OR monitor OR biometric*)

Search
Clause

Stemming

- IEEE *Xplore* automatically finds pluralized nouns, verb tenses, and British/American spelling variations with some exceptions
- IEEE *Xplore* ANDs terms together by default
- To search for an exact phrase and turn off stemming, place the phrase within quotes

Wildcards

Character	Description
*	- Asterisk (*) represents a single character, multiple characters, or no characters
?	- Question mark (?) represents a single character

- Maximum number of wildcards per search: 7
- Minimum number of characters required to use a wildcard: 3
- Asterisk wildcards can be used at the beginning, middle, or end of a word
EXAMPLES: *technology, wom*n, detect*
- Wildcards can also be used in phrased searches
EXAMPLE: “software program*”

Search IEEE *Xplore* for “deep learning” AND photonic

Advanced Search

Advanced Search	Command Search	Citation Search	
-----------------	----------------	-----------------	--

Enter keywords and select fields.

Search Term		in	All Metadata	
"deep learning"				
AND	Search Term	in	All Metadata	 
	photonic			
AND	Search Term	in	All Metadata	  

Showing 1-25 of 304 for ("All Metadata":"deep learning") AND ("All Metadata":photonic) x

☐ Conferences (177)

☐ Journals (117)

☐ Early Access Articles (8)

☐ Magazines (2)

Show

- ☒ All Results
- ☐ Subscribed Content ?
- ☐ Open Access Only

Year



Author



Affiliation



Publication Title



☐ Select All on Page

Sort By: Relevance ▼

☐ Silicon Photonic Neural Networks and Applications

B. J. Shastri; B. A. Marquez; A. N. Tait; T. Ferreira de Lima; H. -T. Peng; C. Huang; P. R. Prucnal
2020 Photonics North (PN)

Year: 2020 | Conference Paper | Publisher: IEEE

▶ Abstract

HTML



☐ Data-driven Modeling Technique for Optical Communications Based on Deep Learning

Danshi Wang; Yuchen Song; Min Zhang

2020 Asia Communications and Photonics Conference (ACP) and International Conference on Information Photonics and Optical Communications (IPOC)

Year: 2020 | Conference Paper | Publisher: IEEE

▶ Abstract

HTML



The Future of Deep Learning Is Photonic: Reducing the energy needs of neural networks might require computing with light

Publisher: IEEE

Cite This



Ryan Hamerly All Authors

474

Full
Text Views

Abstract

Document Sections

» Optical Data

Communication is
Faster and Uses Less
Power. Optical
Computing Promises the
Same Advantages

» Theoretically, Photonics

Has the Potential to
Accelerate Deep
Learning by Several
Orders of Magnitude

Authors

Figures

Abstract:

Think of the many tasks to which computers
human intuition. Computers routinely identify
languages, diagnose medical conditions, pla

Published in: IEEE Spectrum (Volume: 58

Page(s): 30 - 47

Date of Publication: 05 July 2021 ?

► ISSN Information:

Think of the many tasks to which compute
past required human intuition. Computers
speech, translate between languages, diagn
and drive cars.



My Research Projects

Deep Learning and Photonics

Challenges outlined in paper:

- Accuracy & dynamic range of analog optical
calculations

Max 1,000 Characters

133 / 1,000

optical neural networks

Enter

deep learning ✕

photonic ✕

machine learning ✕

Abstract

Document Sections

- I. Introduction
- II. Microgrid Control
- III. Integration Issue of Distributed Energy Resources
- IV. Strengths and Weaknesses of the Renewable Energy Sector
- V. Environmental and Socioeconomic Impacts of Renewable Energy
- VI. Grid-Connected PV Array
- VII. Conclusion and Future Scopes

Abstract:

The importance of **Microgrid** has increased appreciably by the increasing demand of **efficient green energy**, clean, secure and sustainable electricity. Microgrid is a transformative architecture for the normal generation, adaptive and self-healing of electricity network. This article contributes a comprehensive review of the **latest research** in the area of advance control techniques and integration issue of distributed energy resources (DER) in the Microgrid. The distributed generators resources such as solar, wind, photovoltaic etc. has high penetration and its connection to the grid network through advance power electronics converters with energy storage devices, communication technologies and controllable loads, open new horizons for the successful development of Microgrid applications incorporated into power frameworks.

Published in: 2019 International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET)

Date of Conference: 27-28 Dec. 2019

INSPEC Accession Number: 19892561

Date Added to IEEE Xplore: 18 August 2020

DOI: [10.1109/ICITAET47105.2019.9170223](https://doi.org/10.1109/ICITAET47105.2019.9170223)

► **ISBN Information:**

Publisher: IEEE

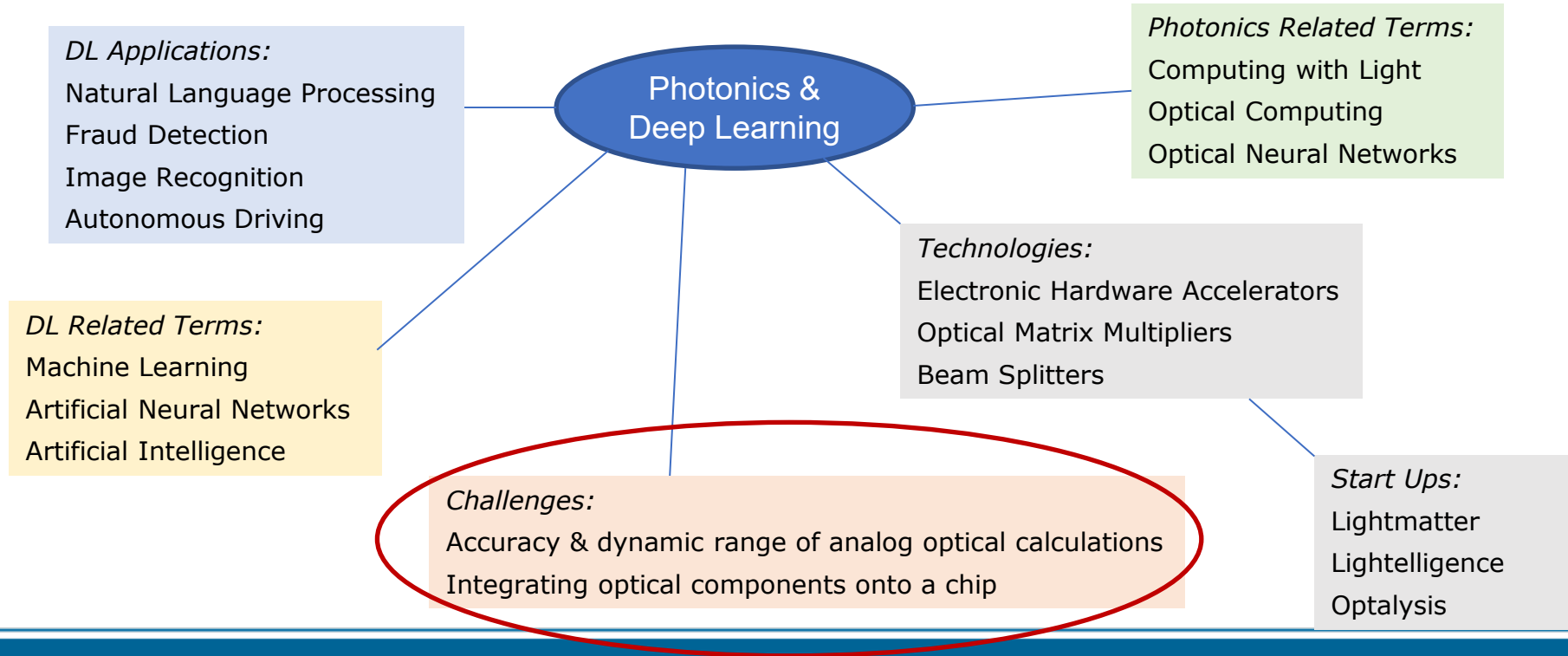
Conference Location: Shergaon, India

I. Introduction

Conclusion and Future Scopes

Microgrid is usually composed of distributed energy resources, energy management system based controller, communication system, electric vehicle and demand response. This paper contributes a comprehensive and review of the recent control and integration issues of distributed energy resources with Microgrid. Microgrid may be connected islanded mode or on-grid mode for sustainable development and deals with economical, technical and environmental issues. The operation of Microgrid is to provide the optimal power flow in the distribution network. This paper addresses the different control technologies and different integration challenges such as power quality, reliability, resiliency of renewable energy resources with high Microgrid penetration and also explores current approaches used in Grid network. **For the future scopes are**, accelerated deployment of renewable energy technologies, cost reduction using incubating technologies **with future potential**, easier implementation and effective monitoring and maintenance, regular improvements in regulatory and policy initiative to promote renewable energy, subsidy support for government, developing and deploying financial instruments and strong monitoring and evaluation frameworks.

Use a Mind Map or Concept Map to organize your findings and narrow in on your research question



Photonics & Deep Learning: Challenges

- Accuracy & dynamic range of analog optical calculations
 - Optical processors suffer from various sources of noise
 - The digital-to-analog and analog-to-digital converters used to get the data in and out are of limited accuracy
- Industry demands higher precision for neural-network training
 - Google's TPU is an example of 8-bit electronic deep-learning hardware
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☐ **Holistic Web Application Security Visualization for Multi-Project and Multi-Phase Dynamic Application Security Test Results**

Ferda Özdemir Sönmez; Banu Günel Kiliç

IEEE Access

Year: 2021 | Volume: 9 | Journal Article | Publisher: IEEE

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☐ **SecureComm 2007 Web and application security - Session 7**

2007 Third International Conference on Security and Privacy in Communications Networks and the Workshops - SecureComm 2007

Year: 2007 | Conference Paper | Publisher: IEEE

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☐ **Aggregation process for implementation of application security management based on risk assessment**

P. Nyrkov Anatoliy; F. Katorin Yuri; D. Gaskarov Vagiz; V. Kosyak Yana; V. Sauchev Aleksandr

2018 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (EIConRus)


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

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Ferda Özdemir Sönmez ; Banu Günel Kılıç  All Authors

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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.

Published in: IEEE Access (Volume: 9)

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Date of Publication: 04 February 2021 

Electronic ISSN: 2169-3536

INSPEC Accession Number: 20324445

DOI: 10.1109/ACCESS.2021.3057044

Publisher: IEEE

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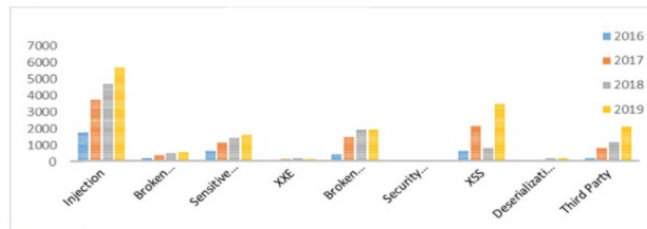
Keywords

Metrics

Footnotes

FIGURE 1.

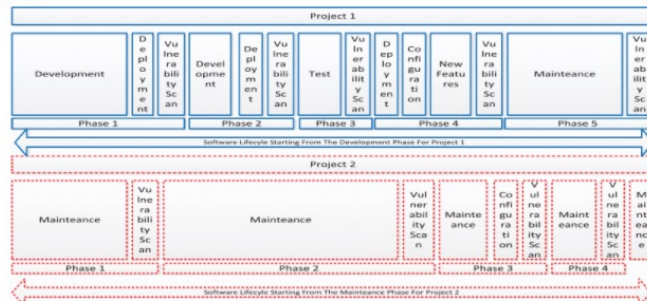
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The state of web application vulnerabilities between 2016 and 2019 [3] ¹.

FIGURE 2.

» Show in Context



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The rapid risk assessment is based on the calculation and evaluation of the risk index R .

$$R = P_r \cdot L_r \quad (1)$$

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\begin{equation*} R = P_r \cdot L_r \tag{1} \end{equation*}
```

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  <mtable displaystyle="true">
    <mtabletr>
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      </mtd>
      <mtd>
        <mi>R</mi>
        <mo>=</mo>
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        <mi>L</mi>
        <mi>r</mi>
      </mtd>
    </mtabletr>
  </mtable>
</math>
```

ference of risk, according to classification points) [1], [2].



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Abstract	References
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I. Introduction	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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IV. Holistic Web Application Security Vulnerability Visualization, HWAS-V	2. B. Molnar and A. Tarcsi, "Architecture and system design issues of contemporary web-based information systems", <i>Proc. 5th Int. Conf. Softw. Knowl. Inf. Ind. Manage. Appl. (SKIMA)</i> , pp. 1-8, Sep. 2011.
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V. Case Study and HWAS-V	3. <i>The State of Web Application Vulnerabilities in 2019</i> , Jan. 2020, [online] Available: https://www.imperva.com/blog/the-state-of-vulnerabilities-in-2019/ .
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Fig	4. <i>Software Testing Tips and Tricks</i> , Jan. 2021, [online] Available: https://www.softwaretesttips.com/web-application-security-testing/ .
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Keywords	5. <i>Acunetix</i> , Jan. 2019, [online] Available: https://www.acunetix.com/ .
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2008 Second International Conference on Emerging Security Information Systems and Technologies (SecInfoSys)
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Rafael Bosse Brinhosa; Carlos Becker Westphall; Carla Merkle W
2008 Second International Conference on Emerging Security Info
Year: 2008 | Conference Paper | Publisher: IEEE
Cited by: Papers (2) | Patents (1)

☐ **Universal Bluetooth Access Control and Security Sy**
Francisco José Bellido Outeiriño; Pedro Canales Aranda; José Lu
2010 Fourth International Conference on Emerging Security Infor
Year: 2010 | Conference Paper | Publisher: IEEE
Cited by: Papers (1)

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2 Document(s)
Project Created: Jul 14, 2021

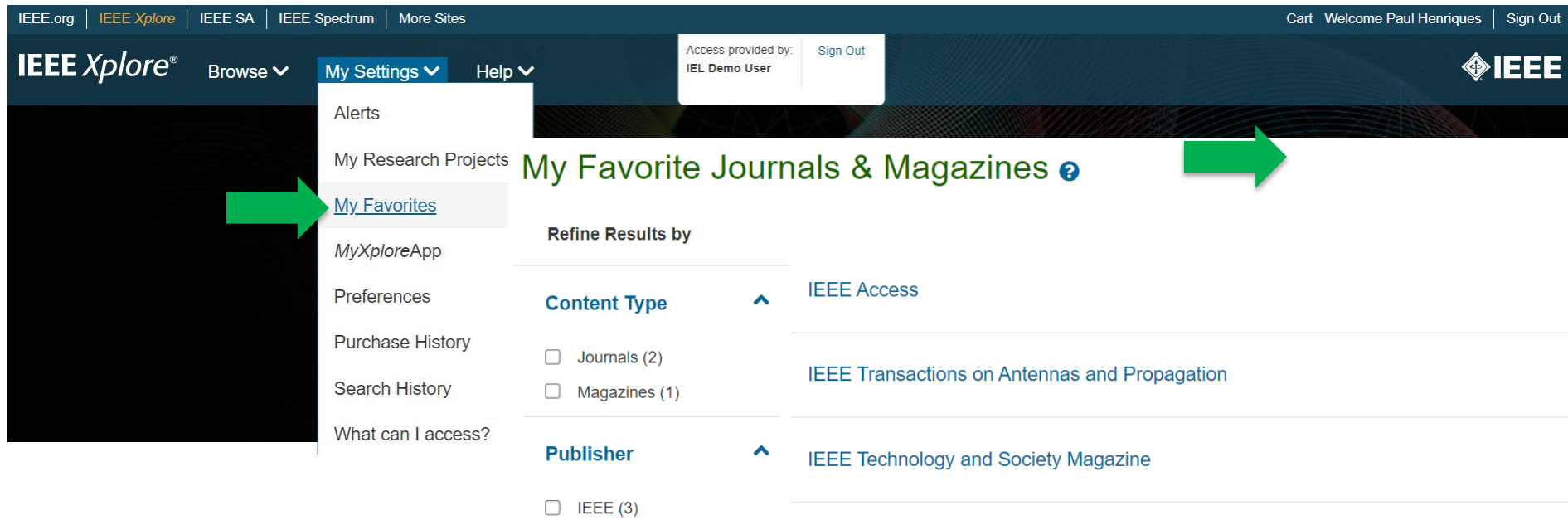
Documents of interest regarding security of applications.

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2008 Second International Conference on Emerging Security Information, Systems and Technologies
Year: 2008 | Conference Paper | Publisher: IEEE
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☐ **Security Framework for Input Validation**
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Holistic Web Application Security Visualization for Multi-Project and Multi-Phase Dynamic Application Security Test Results

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Biography

Gary S. May (Fellow, IEEE) received the B.S. degree in electrical engineering from the Georgia Institute of Technology (Georgia Tech), Atlanta, GA, USA, in 1985, and the M.S. and Ph.D. degrees in electrical engineering and computer science from the University of California at Berkeley, Berkeley, CA, USA, in 1987 and 1991, respectively. He was the Dean of the College of Engineering, Georgia Tech, from 2011 to 2017, where he serves as the Chief Academic Officer and provides leadership to more than 400 faculty

Publications

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26 AND 24

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<input checked="" type="checkbox"/> 26	control systems	2644742 Dec 3, 2021	
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