Strategies for Searching IEEE Xplore

March 2020
IEEE: Who, What, Why?

Who is IEEE?
World’s leading professional association dedicated to the practicing engineer. Over 417,000 members in 160 countries. **Mission:** advancing technology for humanity.

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We publish the top-cited science and technology research in the field, most notably our journals, conferences, and standards.

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IEEE Covers All Areas of Technology
More than just electrical engineering & computer science

- Aerospace & Defense
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- Power Electronics
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- Semiconductors
- Smart Grid
- Wireless Broadband
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IEEE Quality Makes an Impact

Latest studies reinforce that the top cited publications in the world are from IEEE

- The top 20 journals in EE*
- 18 of the top 20 journals in Telecommunications
- IEEE has the #1 cited journals in Computer Hardware, Artificial Intelligence, Automation & Control, Information Systems, and Remote Sensing
- IEEE Access has an impact factor of 4.098 (up from 3.55)
- Cited in patents 3x more than any other publisher**

* Based on the Clarivate Analytics Journal Citation Report study released June 2019
** Source: 1790 Analytics
IEEE Research Powers Patents

IEEE is the most-cited publisher in new patents from top patenting organizations.

- Patent referencing to IEEE increased over 800% since 1997
- Inventions that build upon IEEE publications are more likely to be cited in the future
- The importance of sci-tech literature in patents is rising
- IEEE dominates in patents related to Autonomous Vehicles and Internet Of Things

Number of U.S. Patent References from Top 30 Companies to Top 20 Publishers

<table>
<thead>
<tr>
<th>PUBLISHER</th>
<th># of U.S. Patents</th>
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<tbody>
<tr>
<td>IEEE</td>
<td>390,314</td>
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<tr>
<td>ACM</td>
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<td>3GPP</td>
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<td>RELX Group (Elsevier)</td>
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<tr>
<td>John Wiley &amp; Sons</td>
<td>29,940</td>
</tr>
<tr>
<td>Springer</td>
<td>29,034</td>
</tr>
</tbody>
</table>

IEEE is cited 3X more than any other publisher!

Source: 1790 Analytics LLC, Copyright 2019

More information available at: www.ieee.org/patentcitations
New IEEE Journals Coming in 2020

These new journal titles* will soon be available and accessible via subscription:

- IEEE Journal of Emerging and Selected Topics in Industrial Electronics
- IEEE Journal on Selected Areas in Information Theory
- IEEE Transactions on Technology and Society

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

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The IEEE conference collection continues to grow

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Some new Conference Proceedings added to IEEE Xplore

IEEE International Conf. on Artificial Intelligence Circuits and Systems (AICAS)
IEEE International Conf. on Blockchain and Cryptocurrency (ICBC)
IEEE 6th International Conf. on Energy Smart Systems (ESS)
IEEE Sustainability through ICT Summit (StICT)
IEEE International Conf. on Artificial Intelligence Testing (AITest)
IEEE International Conf. on Decentralized Applications and Infrastructures
IEEE Asia Power and Energy Engineering Conference (APEEC)
International Conf. on Control of Dynamical and Aerospace Systems (XPOTRON)
IEEE International Conf. on Flexible and Printable Sensors and Systems (FLEPS) Latin American Electron Devices Conference (LAEDC)
IEEE International Conf. on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT)
IEEE Decentralized Energy Access Solutions Workshop (DEAS)
IEEE PES GTD Grand International Conference and Exposition Asia (GTD Asia)

Note: this is a partial listing of new conferences and is not all-inclusive or final. Information is subject to change.
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- Metrics on author's total publications & history
- Links to co-authors info pages
- Consolidated list of author's publications in IEEE Xplore
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Allowing users to leverage the tools of Code Ocean right in IEEE Xplore (without leaving the site). Users can perform key functions within the module such as download files and run algorithms.
IEEE Xplore: An Enhanced Search Experience

https://ieeexplore.ieee.org
Browsing the Table of Contents
Support for Advanced Searchers: Basic Search

- Basic Search will search **METADATA ONLY**
- Case insensitive and automatic stemming
- Searches for British and US spellings in English. Use wildcards for greater precision.
- Boolean, Proximity, and Field Searching allowed (operators MUST be in all **ALL CAPS**)
- Wildcards supported: (* and ?)
- Wildcards supported in phrased searches and with proximity operators
- Complex Boolean queries can be nested in proximity statements.
- **Example:** (A or B) NEAR/5 (C or D).
Search Results and Refinements

- Boolean and Proximity Operators can now be used in Search Within Results from the search result page.
- Field Commands can now be used in Search Within Results.
- There is a maximum of 5 wildcards per search in IEEE Xplore. Search Within Results allows users to add 1 extra wildcard to the search.
Search Within Results

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- Field Commands can now be used in Search Within Results.
- There is a maximum of 5 wildcards per search in IEEE Xplore. Search Within Results allows users to add 1 extra wildcard to the search.
Real time indoor presence detection with a novel radar on a chip

Publisher: IEEE

6 Author(s) D. Delana; E.M. Suijker; R.J. Bolt; A.P.M. Maas; W.J. Vloothuizen; A.S. Kossen

Abstract:
A novel FMCW radar on a chip operating in the 24 GHz band has been used for presence detection in an office environment. Real time detection of small movements (i.e. typing) has been demonstrated. A comparison of the performances of the radar sensor and of the traditional intelligent lighting PIR sensor has been carried out. While the radar is able to detect a movement of 1 cm along the radial direction, the PIR sensor can detect mainly larger movements along the tangential direction, showing the complementarity of these two sensors. Both sensors have a reaction time of less than 200 ms.

Published in: 2014 International Radar Conference

Date of Conference: 13-17 Oct. 2014
Date Added to IEEE Xplore: 16 March 2015
Electronic ISBN: 978-1-4790-4185-7
Print ISSN: 1097-5764
INSPEC Accession Number: 14998397
DOI: 10.1109/RADAR.2014.7060375
Publisher: IEEE
Conference Location: Lille, France

SECTION I. Introduction
Access Figures Within an Article

Figures

Fig. 1.
- View in Context
- View Full Size Image

Fig. 2.
- View in Context
- View Full Size Image

24 GHz FMCW radar. Top side view showing the chip and the two antennas (left), bottom side view (right).

SiGe BiCMOS FMCW analog front end

microcontroller
Right-Click Equations: Copy Source Code
interpolation, the latitude and longitude are respectively $L$ and $B$, interpolation equation is shown in (1):

\[
\begin{align*}
L &= L_0 + \Delta \text{lon} \\
B &= B_0 + \Delta \text{lat}
\end{align*}
\]  (1)

Where $\Delta \text{lon}$ is the offset of longitude, $\Delta \text{lat}$ is the offset of latitude. The calculating equation for $\Delta \text{lon}$ and $\Delta \text{lat}$ is shown in (2):

\[
\Delta \text{lon} = v^* \Delta t^* \sin \phi / (l^* \cos \phi)
\]  (2)
References & Citations

Abstract

Document Sections
I. Introduction
II. Radar Description
III. PIR Sensors
IV. Measurement Setup
V. Real Time Signal Processing

References

1. [online] Available: www.enlight-project.eu
   ‣ Show Context

   ‣ Show Context   Google Scholar

   ‣ Show Context   Google Scholar

   ‣ Show Context
Advanced Search: Full Text and Field Searching

Leverage both Full Text & Metadata and Full Text Only searching across multiple search strings
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- Set defaults for number of results per page, citation downloads, and sort by
- Content and citation alerts
- Search History: IEEE Xplore saves your last 50 searches
You have 12 items in your library.

- Real time indoor presence detection with a novel radar on a chip
  - Source: 2014 International Radar Conference
  - Year: 2014

- A method of detection performance modeling in jamming condition based on radar network system
  - Source: Proceedings of 2011 IEEE CIE International Conference on Radar
  - Year: 2011

- Cultural Function and Spiritual Value of Computer Science History and Computer Science Education
  - Source: 2009 First International Workshop on Education Technology and Computer Science
  - Year: 2009

- Necessity and problem of computational intelligence in welfare and rehabilitation engineering
Search, Content, and Citation Alerts

Top Searches and Documents

- Blockchain: 3,293
- Artificial Intelligence: 192,803
- Image Processing: 352,490
- Antenna: 268,084
- Machine Learning: 92,039
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Refine Results by

- Select All
- Content Type
  - Journals (247)
  - Magazines (49)
- Publisher
  - IEEE Transactions on Aerospace and Electronic Systems
  - IEEE Transactions on Affective Computing

Update
Real time indoor presence detection with a novel radar on a chip
D. Deiana; E.M. Suijker; R.J. Bolt; A.P.M. Maas; W. J. Vlothuizer; A.S. Kossen

Visually controlled graphics
A. Azarbeyjani; T. Starner; B. Horowitz; A. Pentland

High performance uncertainty quantification analysis of RF devices
George Stantchev; Simon Cooke; Kyle Elliott; John Petillo
## Access Search History

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

- rerun, modify, and combine previous searches
- review refinements and other details of a previous search
- store up to 50 previous searches on your account

Select multiple searches to combine them together.

<table>
<thead>
<tr>
<th>#</th>
<th>Search Query</th>
<th>Details</th>
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<tbody>
<tr>
<td>10</td>
<td>radar NEAR/3 detect*</td>
<td>20421 Oct. 21, 2019 14:57 UTC</td>
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<tr>
<td>9</td>
<td>(VOIP ONEAR/10 security)</td>
<td>297 Sep. 30, 2019 09:30 UTC</td>
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<tr>
<td>8</td>
<td>petroleum AND plastic*</td>
<td>242 Sep. 25, 2019 08:38 UTC</td>
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<td>7</td>
<td>&quot;resource management&quot; NEAR/10 (oil OR gas)</td>
<td>113 Sep. 24, 2019 17:58 UTC</td>
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<tr>
<td>6</td>
<td>&quot;clean energy&quot; AND electric*</td>
<td>1452 Sep. 24, 2019 17:52 UTC</td>
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<tr>
<td>5</td>
<td>hydraulic AND drill*</td>
<td>143 Sep. 23, 2019 08:24 UTC</td>
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<td>4</td>
<td>&quot;computer science&quot;</td>
<td>330119 Sep. 16, 2019 08:12 UTC</td>
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<td>radar NEAR/3 detect*</td>
<td>20153 Sep. 11, 2019 19:34 UTC</td>
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<td>2</td>
<td>semiconductor NEAR/5 &quot;smart meter&quot;</td>
<td>0 Jun. 19, 2019 10:25 UTC</td>
</tr>
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</table>

### Search History Tips

- Only the most recent 50 searches are displayed
- Searches including "NEAR" or "ONEAR" operators cannot be combined
- 50 Keyword limit for combined searches
- 5 Wildcard limit for combined searches
- Search alerts are not available for combined searches
IEEE Xplore: Resources & Help

Search for answers to frequently asked questions via the search box at the top of the page.
Thank You!

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