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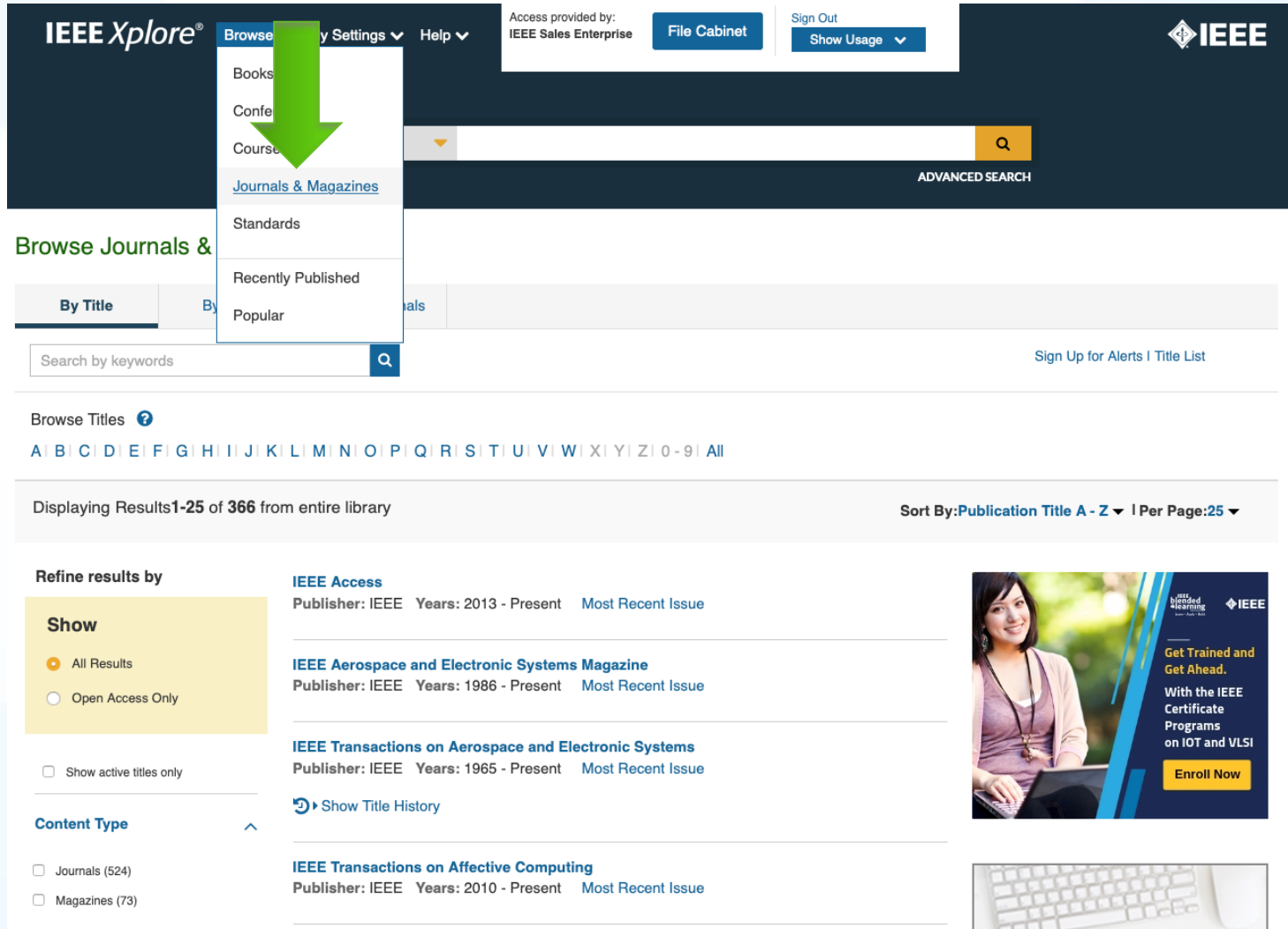
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Browsing the Table of Contents



The screenshot displays the IEEE Xplore website interface. At the top, the IEEE Xplore logo is on the left, and navigation links for 'Browse', 'My Settings', and 'Help' are in the center. On the right, there's a section for 'Access provided by: IEEE Sales Enterprise' with a 'File Cabinet' button, and a 'Sign Out' button with a 'Show Usage' dropdown. The IEEE logo is on the far right. A green arrow points to the 'Journals & Magazines' option in the 'Browse' dropdown menu. Below the menu, the 'Browse Journals & Magazines' section is visible, with a search bar and a 'Search by keywords' button. The search results section shows 'Browse Titles' with a list of letters from A to Z and '0-9'. It indicates 'Displaying Results 1-25 of 366 from entire library' and 'Sort By: Publication Title A - Z | Per Page: 25'. On the left, the 'Refine results by' section includes a 'Show' button, radio buttons for 'All Results' (selected) and 'Open Access Only', a checkbox for 'Show active titles only', and a 'Content Type' section with checkboxes for 'Journals (524)' and 'Magazines (73)'. The main content area lists several IEEE publications: 'IEEE Access' (Publisher: IEEE, Years: 2013 - Present, Most Recent Issue), 'IEEE Aerospace and Electronic Systems Magazine' (Publisher: IEEE, Years: 1986 - Present, Most Recent Issue), 'IEEE Transactions on Aerospace and Electronic Systems' (Publisher: IEEE, Years: 1965 - Present, Most Recent Issue), and 'IEEE Transactions on Affective Computing' (Publisher: IEEE, Years: 2010 - Present, Most Recent Issue). On the right, there's a promotional banner for 'Get Trained and Get Ahead. With the IEEE Certificate Programs on IOT and VLSI' with an 'Enroll Now' button, and a small image of a keyboard and mouse.

IEEE Xplore® Browse My Settings Help

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IEEE

Journals & Magazines

Browse Journals & Magazines

By Title

Search by keywords

Sign Up for Alerts | Title List

Browse Titles ?

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0 - 9 | All

Displaying Results 1-25 of 366 from entire library

Sort By: Publication Title A - Z | Per Page: 25

Refine results by

Show

All Results

Open Access Only

Show active titles only

Content Type

Journals (524)

Magazines (73)

IEEE Access

Publisher: IEEE Years: 2013 - Present Most Recent Issue

IEEE Aerospace and Electronic Systems Magazine

Publisher: IEEE Years: 1986 - Present Most Recent Issue

IEEE Transactions on Aerospace and Electronic Systems

Publisher: IEEE Years: 1965 - Present Most Recent Issue

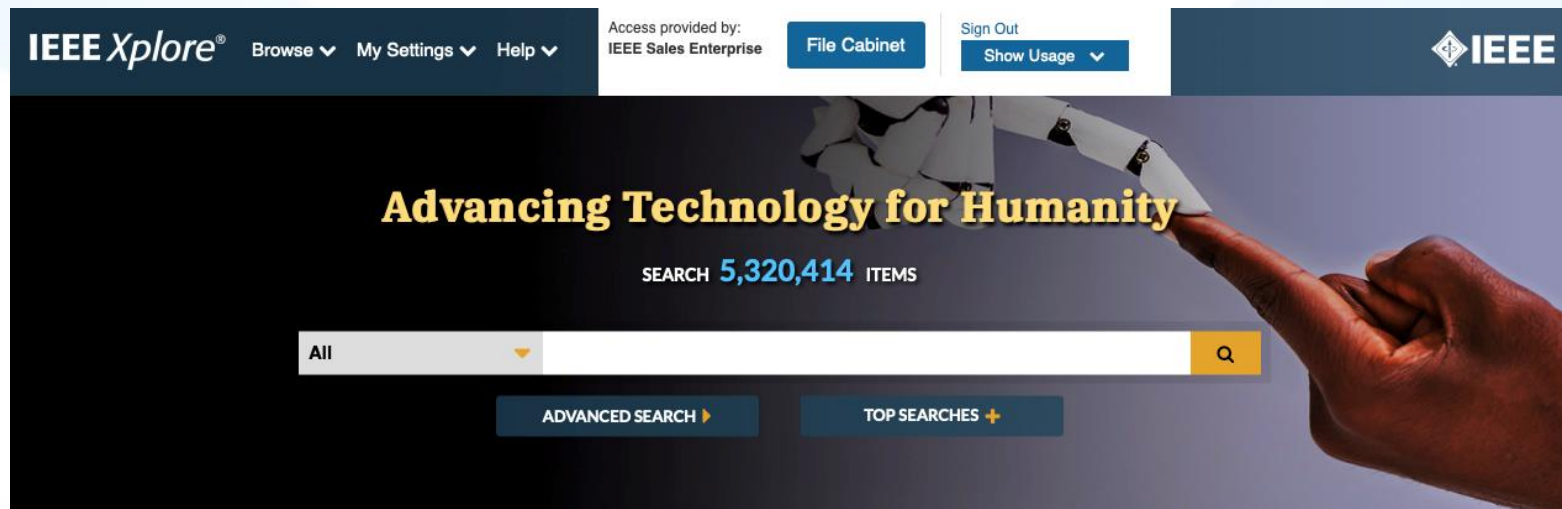
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IEEE Transactions on Affective Computing

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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).

Link to view 'Basic Searching' video tutorial [here](#)

Search Results and Refinements

The screenshot shows the IEEE Xplore search results interface. A green arrow points to the main search bar at the top. Another green arrow points to the 'Search within results' bar. A third green arrow points to the 'Show' filter panel on the left. A fourth green arrow points to the 'Sort By' dropdown menu. A fifth green arrow points to the 'Standards Dictionary Terms' panel on the right.

Search bar: Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')

Advanced Search | Other Search Options

Search within results

Showing 1-25 of 20,421 for **radar NEAR/3 detect***

Filters:

- Conferences (15,070)
- Journals (4,923)
- Magazines (351)
- Early Access Articles (55)
- Books (5)
- Courses (5)
- Standards (1)

Show:

- All Results
- My Subscribed Content
- Open Access

Year:

Single Year | Range

1945 | 2019

From | To

Select All on Page

Sort By: Relevance

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

Standards Dictionary Terms

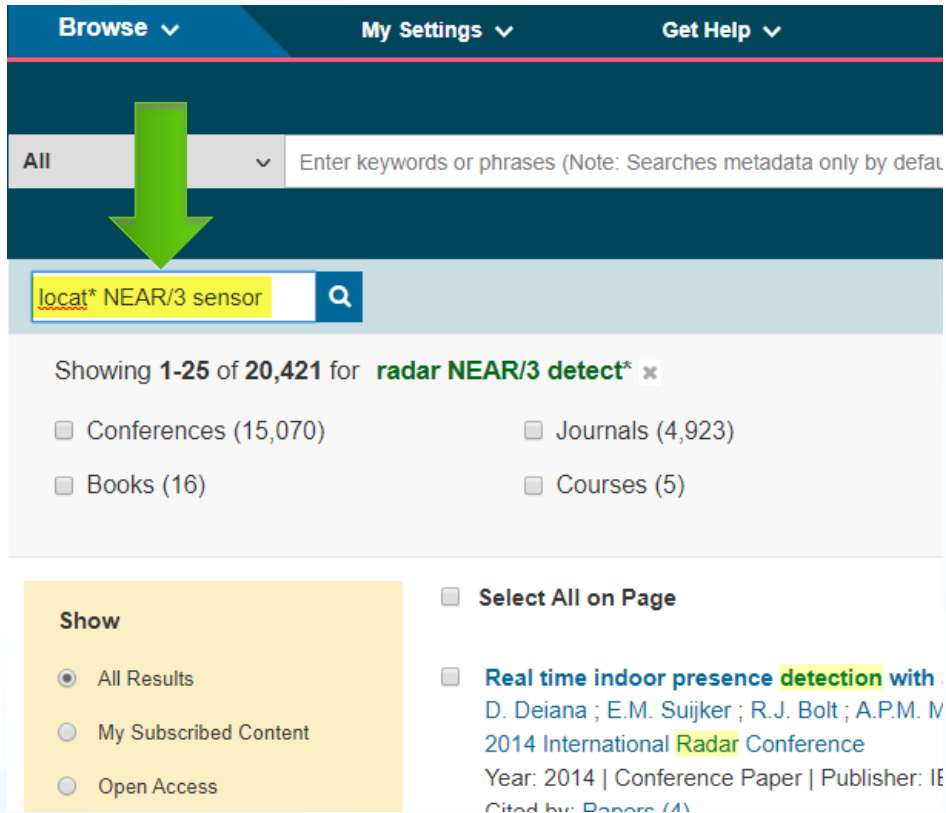
- Johnston factor
- bandwidth
- baseband radar
- carrier-free radar
- center frequency
- fractional bandwidth
- geometric center frequency
- ground penetrating radar (GPR)
- impulse radar
- nonsinusoidal radar
- nonsinusoidal signal

Results:

- 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. Vlothuisen ; S.
2014 International Radar Conference
Year: 2014 | Conference Paper | Publisher: IEEE
Cited by: Papers (4)
Abstract (html) PDF (770 Kb) CC
- A method of detection performance modeling in jamming condition based on radar network system**
Tong-yun Shen ; Jian-jiang Ding ; Yuan Ding ; Jian-gui Shi
Proceedings of 2011 IEEE CIE International Conference on Radar
Year: 2011 | Volume: 2 | Conference Paper | Publisher: IEEE
Cited by: Papers (1)
Abstract (html) PDF (157 Kb) CC

- 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



The screenshot displays the IEEE Xplore search interface. At the top, there are navigation links: 'Browse', 'My Settings', and 'Get Help'. Below these is a search bar with a dropdown menu set to 'All'. A green arrow points to the search bar where the query 'locat* NEAR/3 sensor' is entered. Below the search bar, it shows 'Showing 1-25 of 20,421 for radar NEAR/3 detect*'. There are filters for 'Conferences (15,070)', 'Journals (4,923)', 'Books (16)', and 'Courses (5)'. On the left, there is a 'Show' section with radio buttons for 'All Results', 'My Subscribed Content', and 'Open Access'. On the right, there is a 'Select All on Page' checkbox and a list of results, including a paper titled 'Real time indoor presence detection with...' by D. Deiana, E.M. Suijker, R.J. Bolt, and A.P.M. M.

- 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.

Journals & Magazines > IEEE Antennas and Wireless Pr... > Volume: 10

Publisher: IEEE

Cite This



Jingli Guo; Yanlin Zou; Chao Liu All Authors

6 Paper Citations

11980
Full
Text Views



Abstract:

A novel compact wideband patch antenna is presented. The antenna consists of two simple patch pairs with opposite phase feed. Considering the coupling between two patches in the design, an antenna with a size about $54.5 \times 22 \times 20 \text{ mm}^3$ is constructed and tested. The simulated and measured results show that the antenna has the active reflection coefficient less than -9.6 dB in the band $2.6\text{--}6 \text{ GHz}$. The radiation performance of the antenna is good over the whole frequency band.

Published in: IEEE Antennas and Wireless Propagation Letters (Volume: 10)

Page(s): 435 - 437

INSPEC Accession Number: 12391284

Date of Publication: 05 May 2011 ?

DOI: 10.1109/LAWP.2011.2151170

► **ISSN Information:**

Publisher: IEEE

I. Introduction

II. Antenna Design

III. Results and Discussions

IV. Conclusion

Authors

Figures

References

Citations

Keywords

Metrics

I. Introduction

The demand for compact-size, low-cost printed wideband antennas is increasing due to the prosperity of modern broadband communication systems. For unidirectional patch antennas, various printed dipole patch antennas have been investigated. Coplanar waveguide (CPW)-fed printed wide-slot antennas [1] and CPW-fed monopole antennas [2] have wide bandwidth and omnidirectional radiation patterns. However, in some applications, directional radiation is needed [3]. The aperture-stacked patch (ASP) antenna is one type of endfire wideband antenna that can provide a greater than 3.5: bandwidth [4], [5]. The aperture-stacked patch (ASP) antenna can increase the bandwidth of a microstrip antenna to over 90% [6]. However, these types of antennas are always with relatively large

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A Beam-Steering Broadband Microstrip Antenna for Noncontact Vital Sign Detection
IEEE Antennas and Wireless Propagation Letters
Published: 2011

Hybrid-coupled broadband triangular microstrip antennas
IEEE Transactions on Antennas and Propagation
Published: 2003

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Top Organizations with Patents on Technologies Mentioned in This Article

Organization	Count
ORGANIZATION 4	10
ORGANIZATION 3	8
ORGANIZATION 2	6
ORGANIZATION 1	4



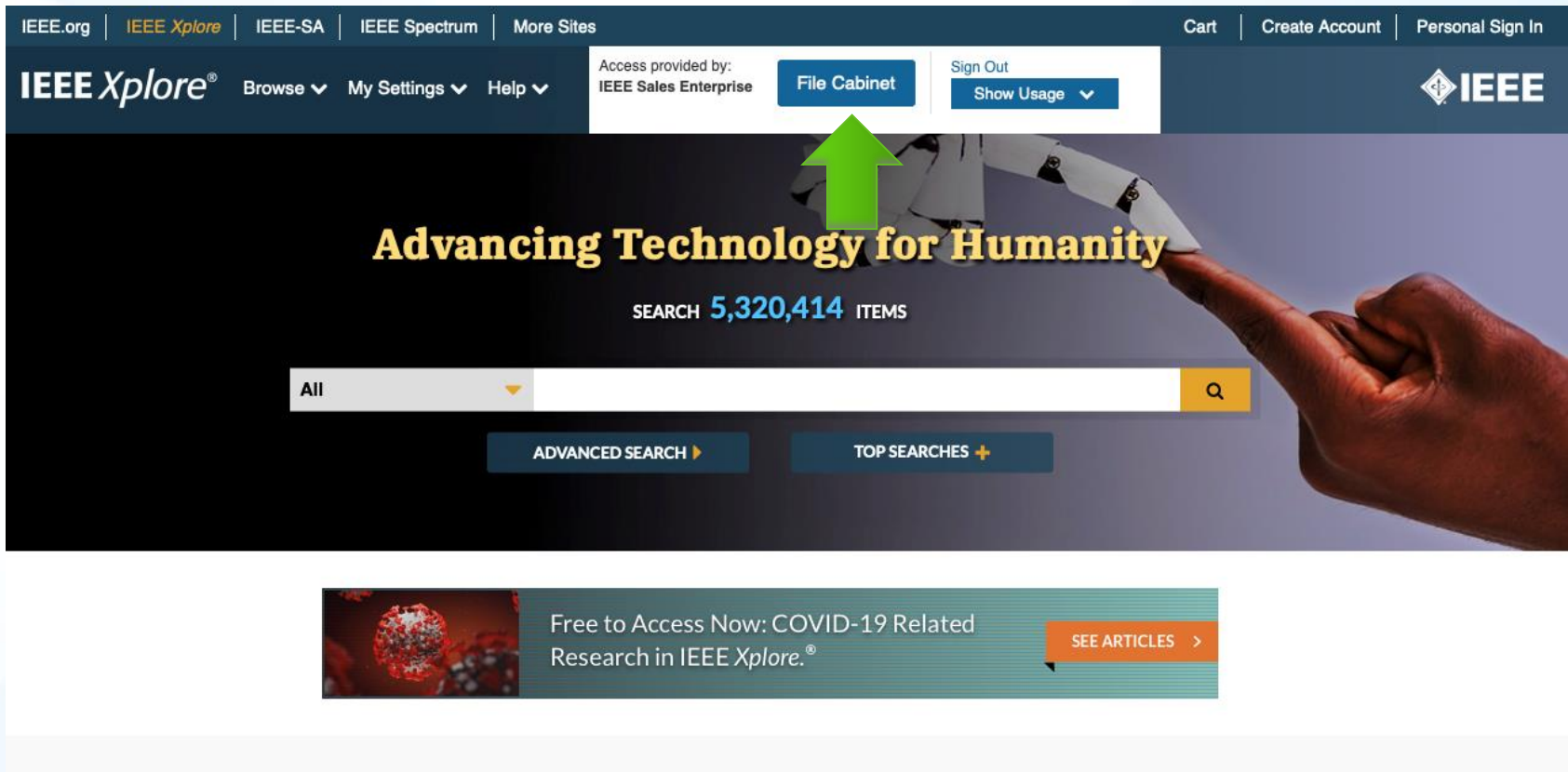
**IEEE
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global technical
community**



Accessing the File Cabinet from the Landing Page



The screenshot shows the IEEE Xplore landing page. 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, there are links for Cart, Create Account, and Personal Sign In. Below this, the IEEE Xplore logo is on the left, followed by links for Browse, My Settings, and Help. In the center, there is a box indicating 'Access provided by: IEEE Sales Enterprise' with a 'File Cabinet' button. To the right of this box are 'Sign Out' and 'Show Usage' links. The IEEE logo is on the far right. The main banner features the text 'Advancing Technology for Humanity' and 'SEARCH 5,320,414 ITEMS'. Below the banner is a search bar with a dropdown menu set to 'All' and a search button. Under the search bar are buttons for 'ADVANCED SEARCH' and 'TOP SEARCHES'. At the bottom, there is a promotional banner for 'Free to Access Now: COVID-19 Related Research in IEEE Xplore' with a 'SEE ARTICLES' button.

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SEARCH **5,320,414** ITEMS

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ADVANCED SEARCH ▸





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IEEE

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Search within results  Per Page: 25  Export  Set Search Alerts  Search History


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II. Radar Description

III. PIR Sensors

IV. Measurement Setup

V. Real Time Signal
Processing

Authors

Figures

References

Citations

Keywords

Metrics

Figures

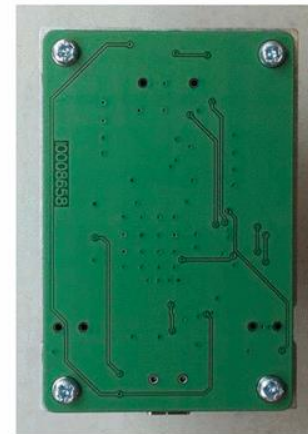
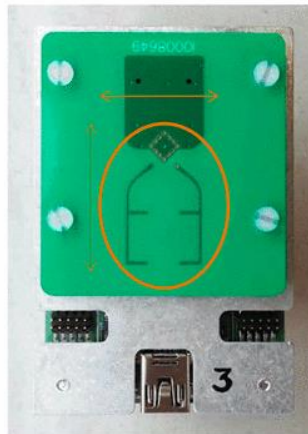
Fig. 1.

» View in Context

» View Full Size Image

10 mm

10 mm



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

Fig. 2.

» View in Context

» View Full Size Image

SiGe BiCMOS FMCW analog front end



Right-Click Equations: Copy Source Code

MathJax Equation Source - Google Chrome

about:blank

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          </table>
          </mrow>
        </mtd>
      </mlabeledtr>
    </table>
  </math>
```

Right-Click Equations: Zoom Function

interpolation, the latitude and longitude are respectively L and B , interpolation equation is shown in (1):

$$\begin{cases} L = L_0 + \Delta lon \\ B = B_0 + \Delta lat \end{cases} \quad (1)$$

Where Δlon is the offset of longitude, Δlat is the calculating equation for Δlon and Δlat is shown

$$\Delta lon = v^* \Delta t^* \sin \phi / (l^* \cos \theta) \quad (2)$$

References & Citations

Abstract

Document Sections

I. Introduction

II. Radar Description

III. PIR Sensors

IV. Measurement Setup

V. Real Time Signal Processing

Author

Figures


References

Citations

Keywords

Metrics

References

 Citation Map

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

► Show Context

2. E. M. Suijker et al., "Low cost low power 24 GHz FMCW radar trasceiver for indoor presence detection", *44 th European Microwave Conference (EuMC)*, 2014.

► Show Context [Google Scholar](#) 

3. E. B. Soyer, "Pyroelectric Infrared (PIR) Sensor Based Event Detection", July 2009.

► Show Context [Google Scholar](#) 

4. [online] Available: http://www3.panasonic.biz/ac/e/search_num/index.jsp?c=detail&part_no=EKMC1601111.

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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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Advanced Search [?](#)

Advanced Search | Command Search | Citation Search

Enter keywords, select fields, and select operators

Search Term: radar in Full Text & Metadata [?](#)

AND ▾ Search Term: detect* in Full Text Only [↑](#) [×](#)

AND ▾ Search Term: Oxford Univ* in Author Affiliations [↑](#) [×](#) [+](#)

Publication Year

☐ Documents Added Between: 09/04/2019 and 09/11/2019

☒ Specify Year Range From: 2004 ▾ To: 2020 ▾

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Full Text & Metadata ▾

All Metadata

Full Text & Metadata

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Authors

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Abstract

Index Terms

Accession Number

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Article Page Number

Author Affiliations

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IEEE Terms


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et IEEE

Advanced Search ?

Advanced SearchCommand SearchCitation Search

Enter keywords, phrases, or a Boolean expression

Use the drop down lists to choose Data Fields and Operators. [Learn how to use Boolean expressions in Command Search.](#)

Data Fields ▾

Operators ▾

Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 40 search terms.

Search Expression Examples ?

(simulat* OR dynamic) ONEAR/4 model

Reset AllSearch

Top S

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 Your password is good

*Confirm Password:

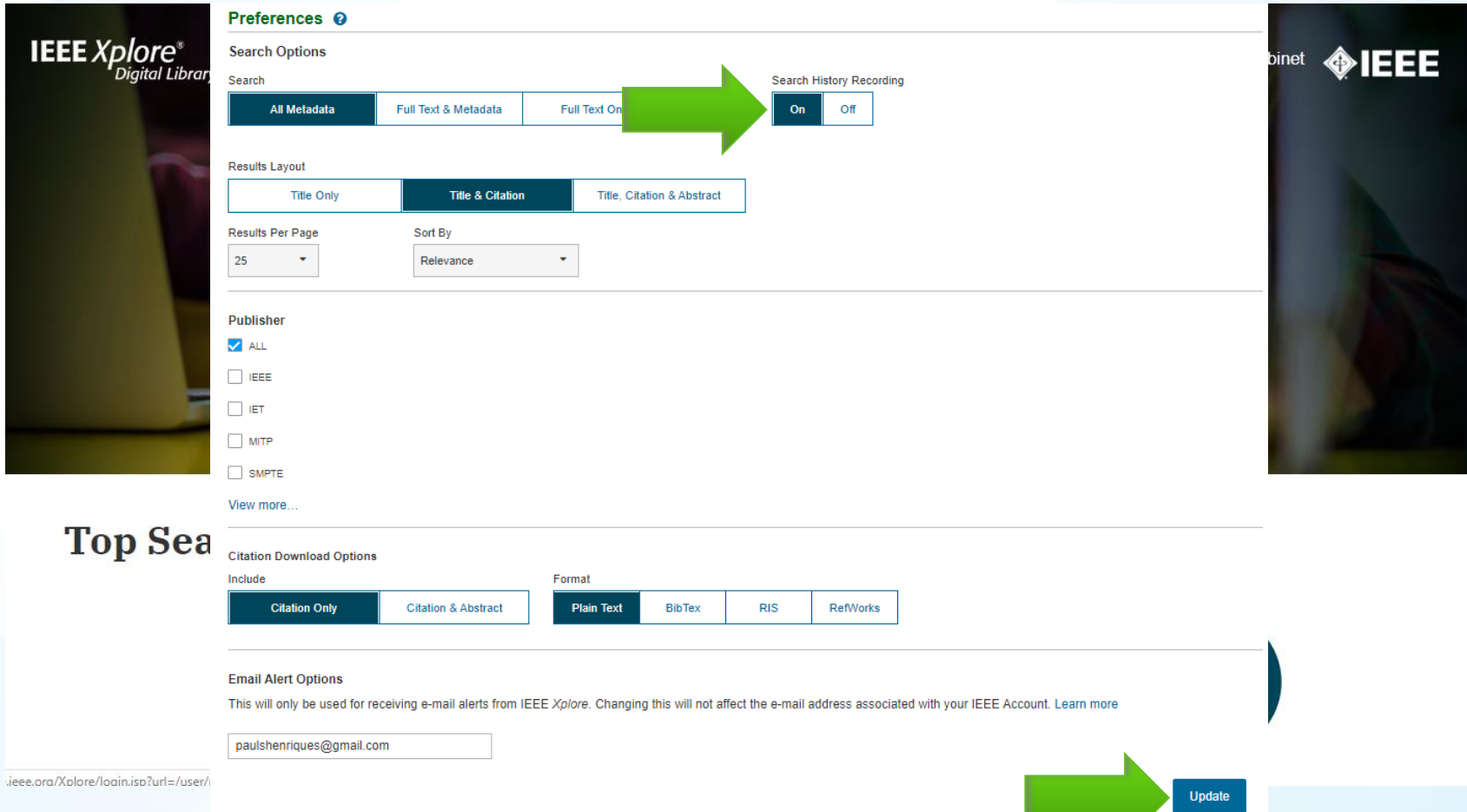
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- Fill out your First Name, Last Name, and email address
- Your username is your email address

Set Preferences with a Personal Account

NOTE: Search History defaults to "Off." Switch to "On" then click "Update" at the bottom of the page.



The screenshot shows the IEEE Xplore Preferences page. A green arrow points from the 'Full Text Only' search option to the 'On' button in the 'Search History Recording' section. Another green arrow points from the bottom of the page to the 'Update' button.

IEEE Xplore® Digital Library

Preferences ?

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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: 25 | Sort By: Relevance

Publisher

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Showing 1-25 of 20,421 for **radar NEAR/3 detect*** x

☐ Conferences (15,070) ☐ Journals (4,923) ☐ Magazine ☐ Books (16) ☐ Courses (5) ☐ Standards

Show

☒ All Results ☐ My Subscribed Content ☐ Open Access

Year

Single Year Range

1945 2019

From To

☐ Select All on Page

☒ **Real time indoor presence detection with a novel radar on**
D. Deiana ; E.M. Suijker ; R.J. Bolt ; A.P.M. Maas ; W. J. Vlothuis
2014 International Radar Conference
Year: 2014 | Conference Paper | Publisher: IEEE
Cited by: Papers (4)
▶ Abstract [\(\(html\)\)](#) (770 Kb)

☒ **A method of detection performance modeling in jamming c**
system
Tong-yun Shen ; Jian-jiang Ding ; Yuan Ding ; Jian-gui Shi
Proceedings of 2011 IEEE CIE International Conference on Radar
Year: 2011 | Volume: 2 | Conference Paper | Publisher: IEEE
Cited by: Papers (1)
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Include

☒ Citation Only ☐ Citation & Abstract

Export

Standards Dictionary Terms ?

- Johnston factor
- bandwidth
- baseband radar
- carrier-free radar
- center frequency
- fractional bandwidth
- geometric center frequency
- ground penetrating radar (GPR)
- impulse radar
- nonsinusoidal radar
- nonsinusoidal signal

Browse »

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Showing 1-25 of 20,421 for **radar NEAR/3 detect*** ✕

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Show

- ☒ All Results
- ☐ My Subscribed Content
- ☐ Open Access

Year

1945 2019

From 1945 To 2019

Author

☐ Select All on Page

Sort By: Relevancy

Set Alert

Search Alert Name*
radar detection

Email Address
paulshenriques@gmail.com

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. Vlothuizen ; A.S. Kossen
2014 International Radar Conference
Year: 2014 | Conference Paper | Publisher: IEEE
Cited by: Papers (4)
▶ Abstract [\(\(html\)\)](#) (770 Kb)

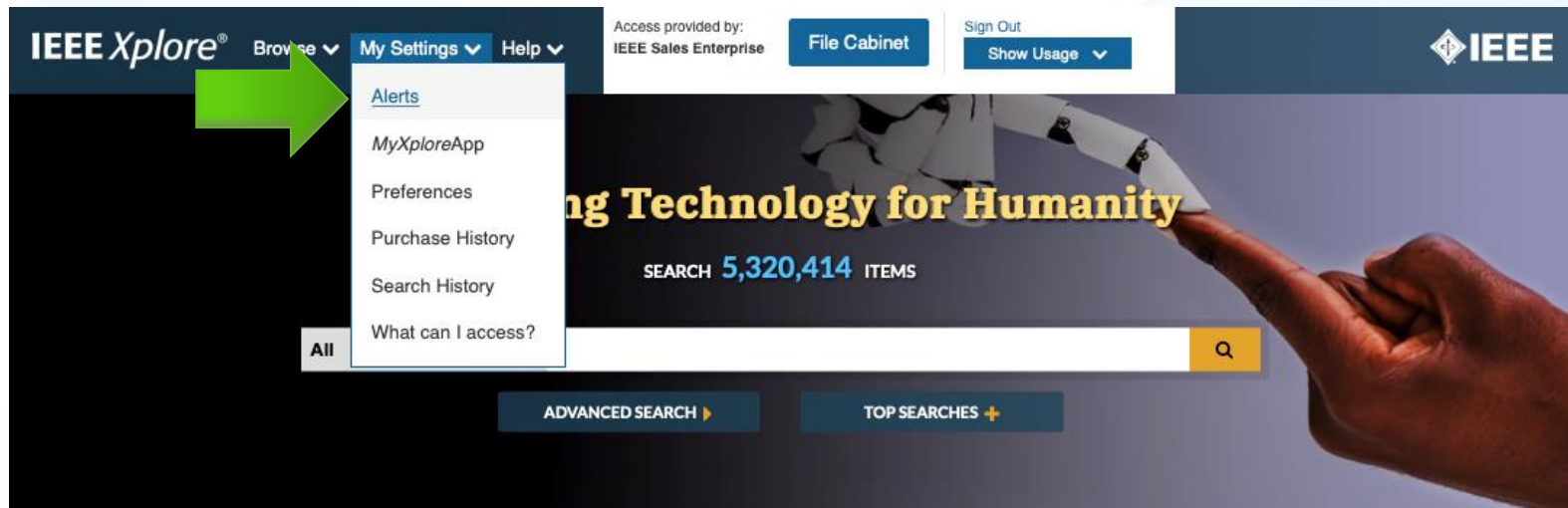
A method of detection performance modeling in jamming condition based on radar network system
Tong-yun Shen ; Jian-jiang Ding ; Yuan Ding ; Jian-gui Shi
Proceedings of 2011 IEEE CIE International Conference on Radar
Year: 2011 | Volume: 2 | Conference Paper | Publisher: IEEE
Cited by: Papers (1)
▶ Abstract [\(\(html\)\)](#) (157 Kb)

Space-Range-Doppler Focus-Based Low-observable Moving Target Detection Using Frequency Diverse Array MIMO Radar
Xiaolong Chen ; Baoxin Chen ; Jian Guan ; Yong Huang ; You He
IEEE Access

- Johnston factor
- bandwidth
- baseband radar
- carrier-free radar
- center frequency
- fractional bandwidth
- geometric center frequency
- ground penetrating radar (GPR)
- impulse radar
- nonsinusoidal radar
- nonsinusoidal signal

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Search, Content, and Citation Alerts



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Alert

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Content Type



☒ IEEE Access

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Journals & Magazines

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Citation

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. Vlothuizen; A.S. Kossen

Visually controlled graphics



A. Azarbajejani; 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

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

Search History Recording: **ON**
(Modify settings in your preferences)

Select multiple searches to combine them together.

#	Search Query	Details
<input type="checkbox"/> 10	radar NEAR/3 detect*	20421 Oct. 21, 2019 14:57 UTC
<input type="checkbox"/> 9	(VOIP ONEAR/10 security)	297 Sep. 30, 2019 09:30 UTC
<input type="checkbox"/> 8	petroleum AND plastic*	242 Sep. 25, 2019 06:38 UTC
<input type="checkbox"/> 7	"resource management" NEAR/10 (oil OR gas)	113 Sep. 24, 2019 17:58 UTC
<input type="checkbox"/> 6	"clean energy" AND electric*	1452 Sep. 24, 2019 17:52 UTC
<input type="checkbox"/> 5	hydraulic AND drill*	143 Sep. 23, 2019 08:24 UTC
<input type="checkbox"/> 4	"computer science"	330119 Sep. 16, 2019 08:12 UTC
<input type="checkbox"/> 3	radar NEAR/3 detect*	20153 Sep. 11, 2019 19:34 UTC
<input type="checkbox"/> 2	semiconductor NEAR/5 "smart meter"	0 Jun. 19, 2019 10:25 UTC

SEARCH HISTORY TIPS

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Search alerts are not available for combined searches

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