Strategies for Searching IEEE *Xplore*

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October 2019

IEEE

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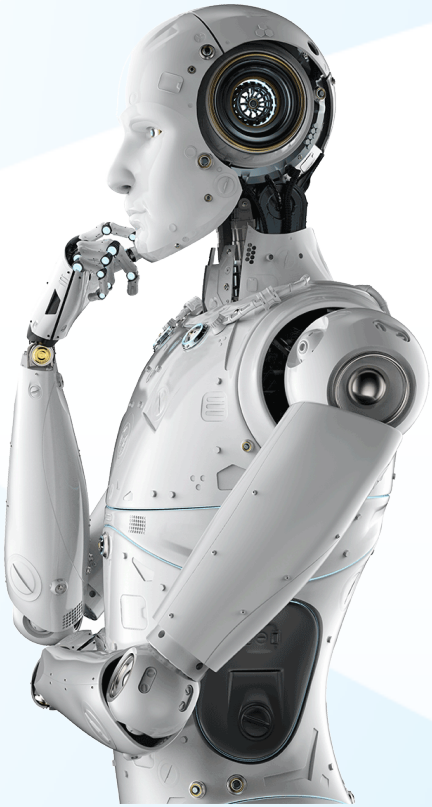

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IEEE members are the technology leaders of today and tomorrow

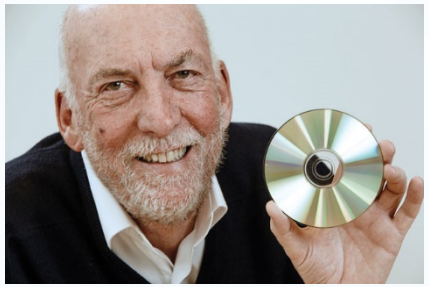
IEEE Medal of Honor Recipients

2016

G. David Forney, Jr.
Influenced virtually every major advance in the field of coding theory

2017

Kees Schouhamer Immink
Provided the foundation for all generations of optical storage media from CDs to Blu Ray discs

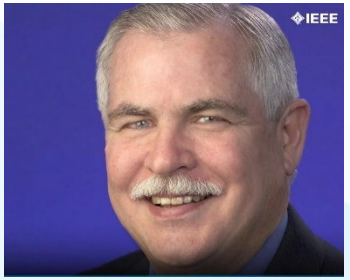


2018

Bradford W. Parkinson
Played a pivotal role in developing GPS

2019

Kurt E. Petersen
Contributions to and leadership in the development and commercialization of innovative technologies in the field of MEMS.



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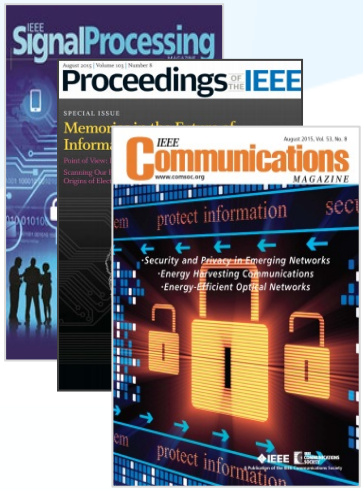
- The top 20 journals in EE*
- 18 of the top 20 journals in Telecommunications
- IEEE has the #1 cited journals in Computer Hardware, Artificial Intelligence, Automation & Control, Information Systems, and Remote Sensing
- IEEE Access has an impact factor of 4.098 (up from 3.55)
- Cited in patents 3x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



* Based on the Clarivate Analytics Journal Citation Report study released June 2019

** Source: 1790 Analytics

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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

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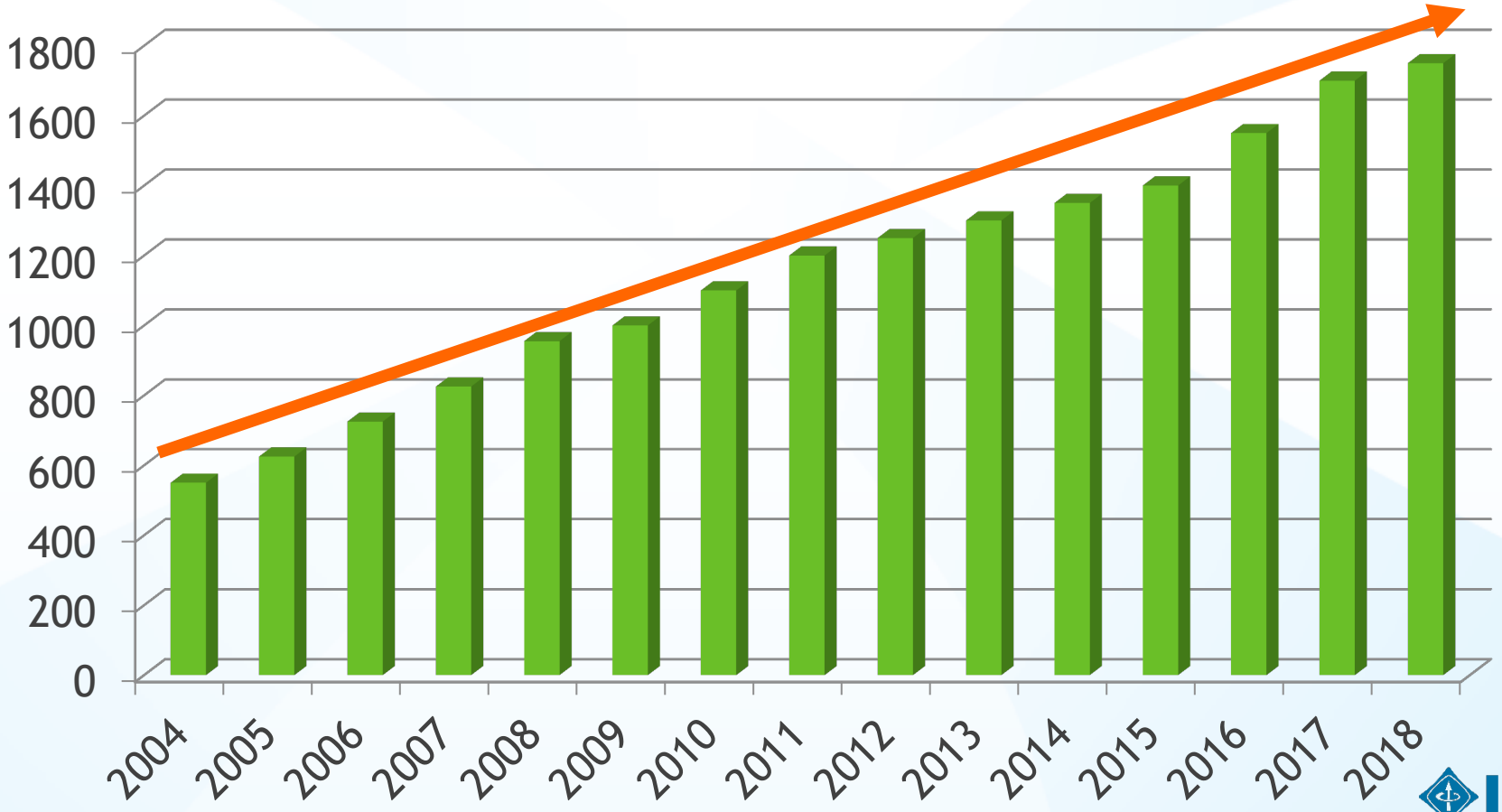

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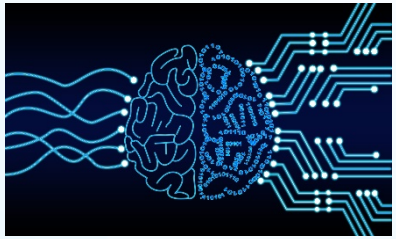

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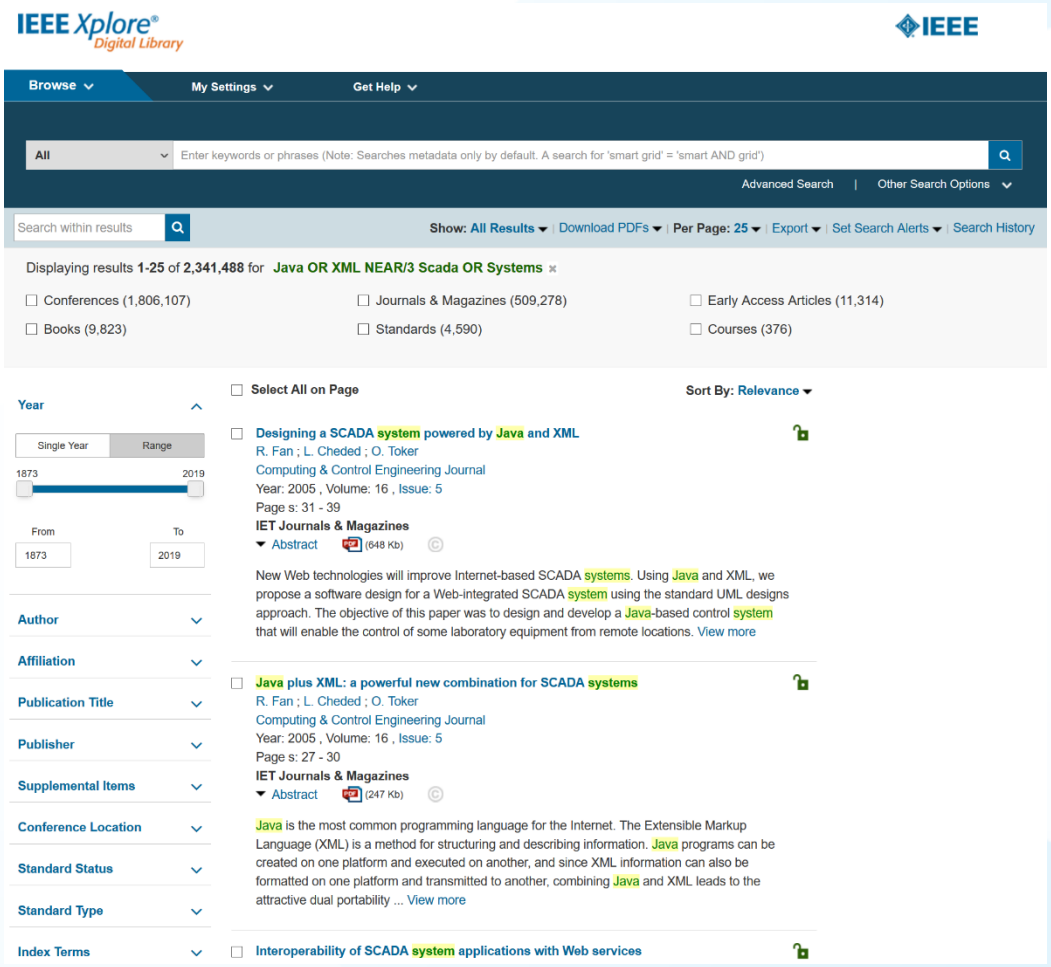
- Wildcards within phrased searches
- Proximity searches (A OR B) NEAR/3 (C OR D)
- Term highlighting
- Foundation for future IEEE *Xplore* platform capabilities



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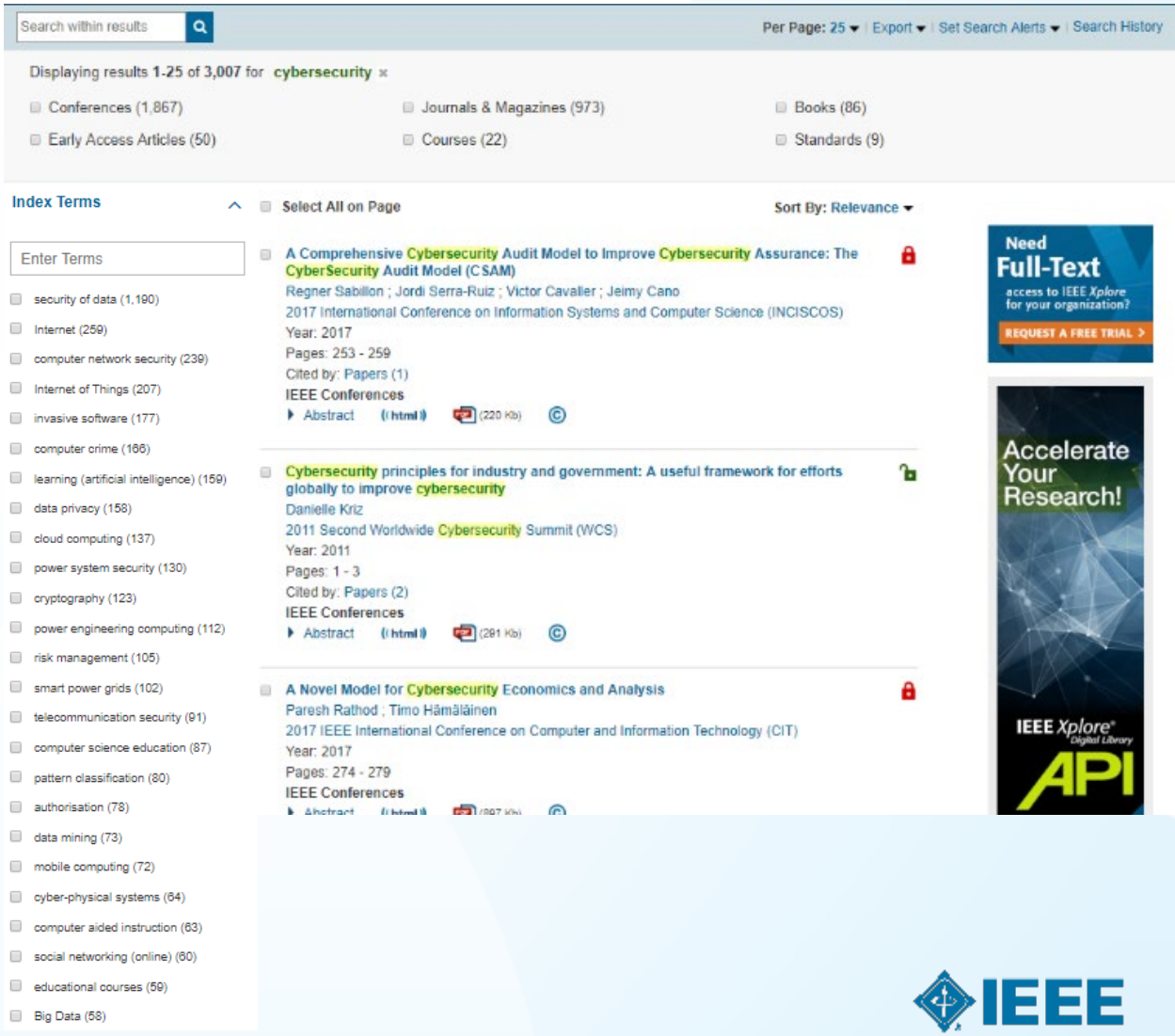
Index Terms Facet

Narrow search results
by Inspec Index Terms



Author Detail Pages

- Helps authors promote their published works in IEEE *Xplore*
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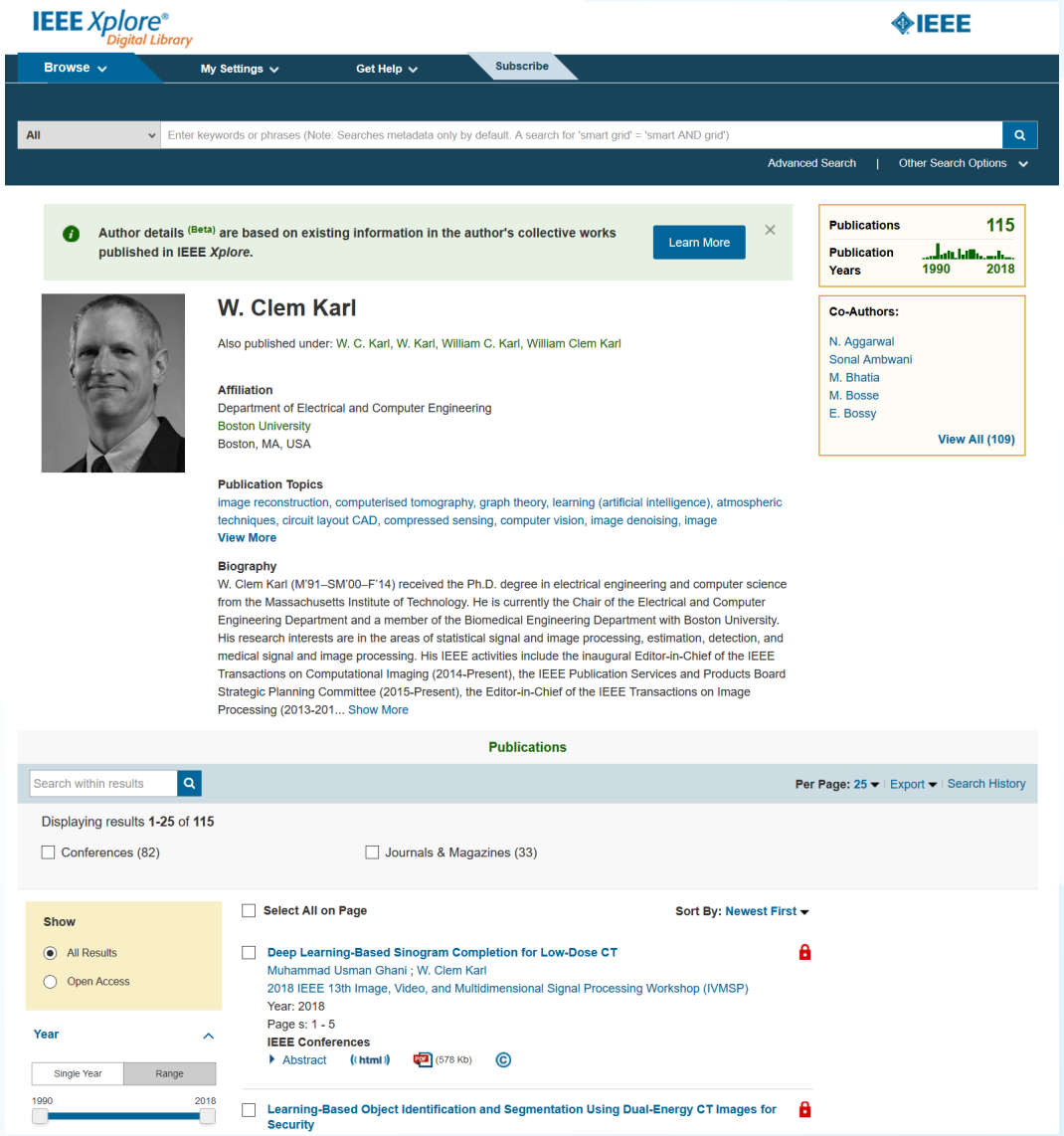
- Metrics on author's total publications & history
- Links to co-authors info pages
- Consolidated list of author's publications in IEEE *Xplore*



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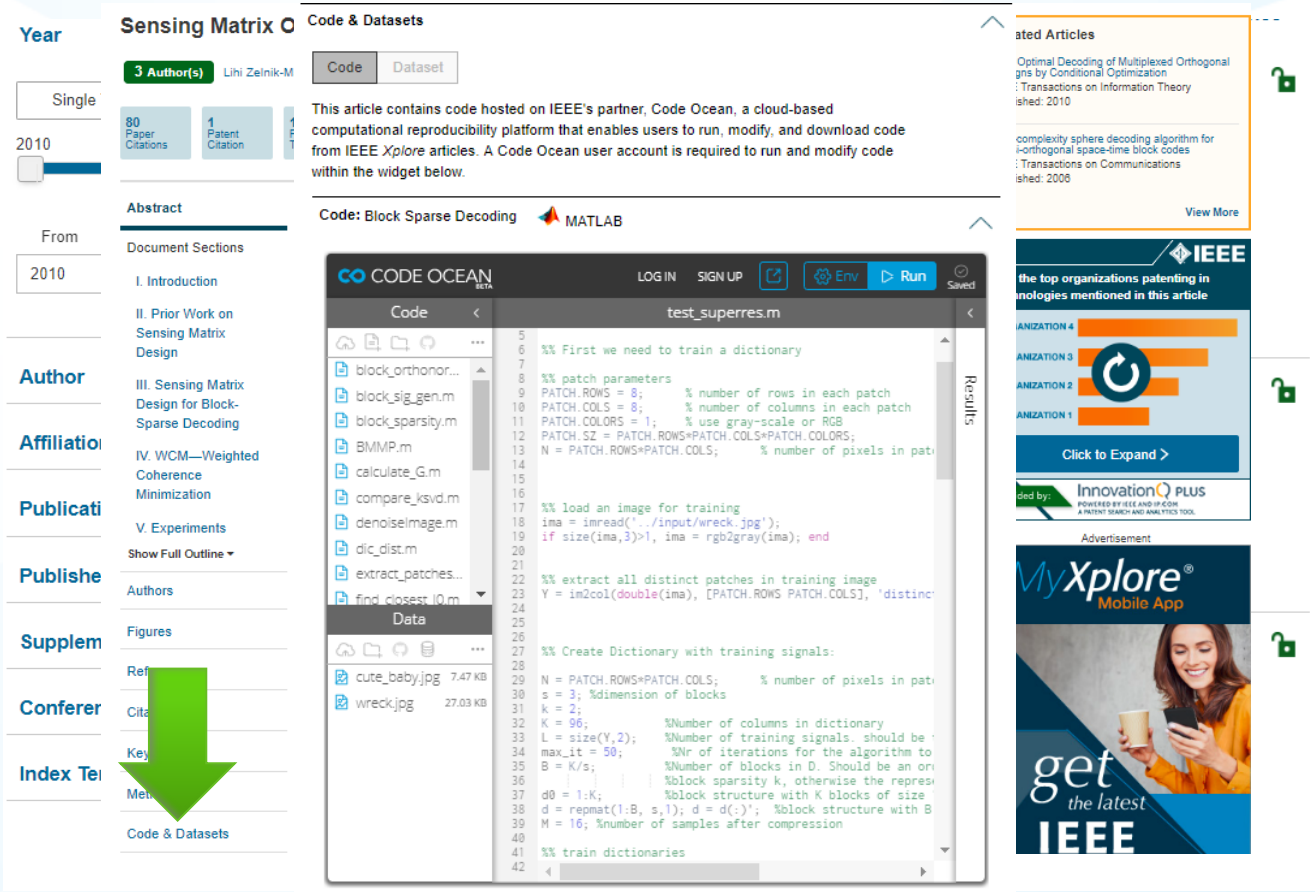

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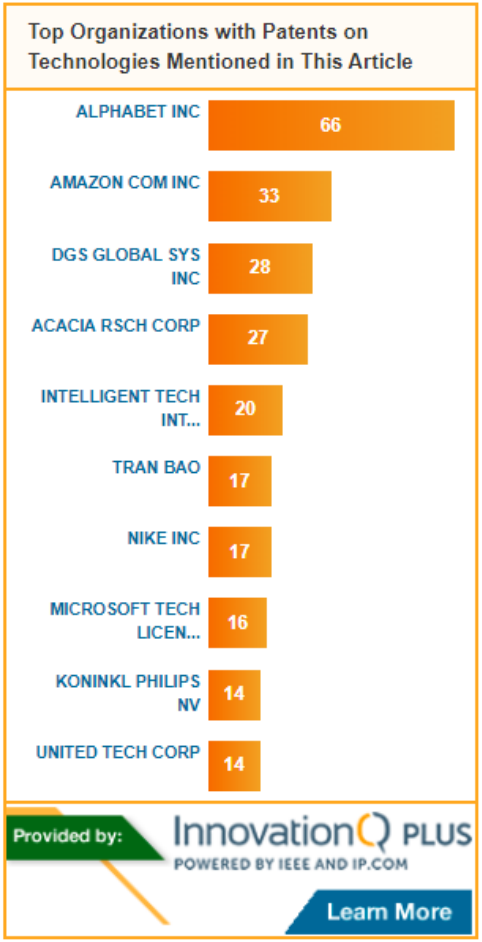
Understanding the Technology Landscape with InnovationQ Plus

Run a semantic search across US patents on the full text of a journal article, conference paper or standard to identify the top organizations patenting in technologies discussed in the document



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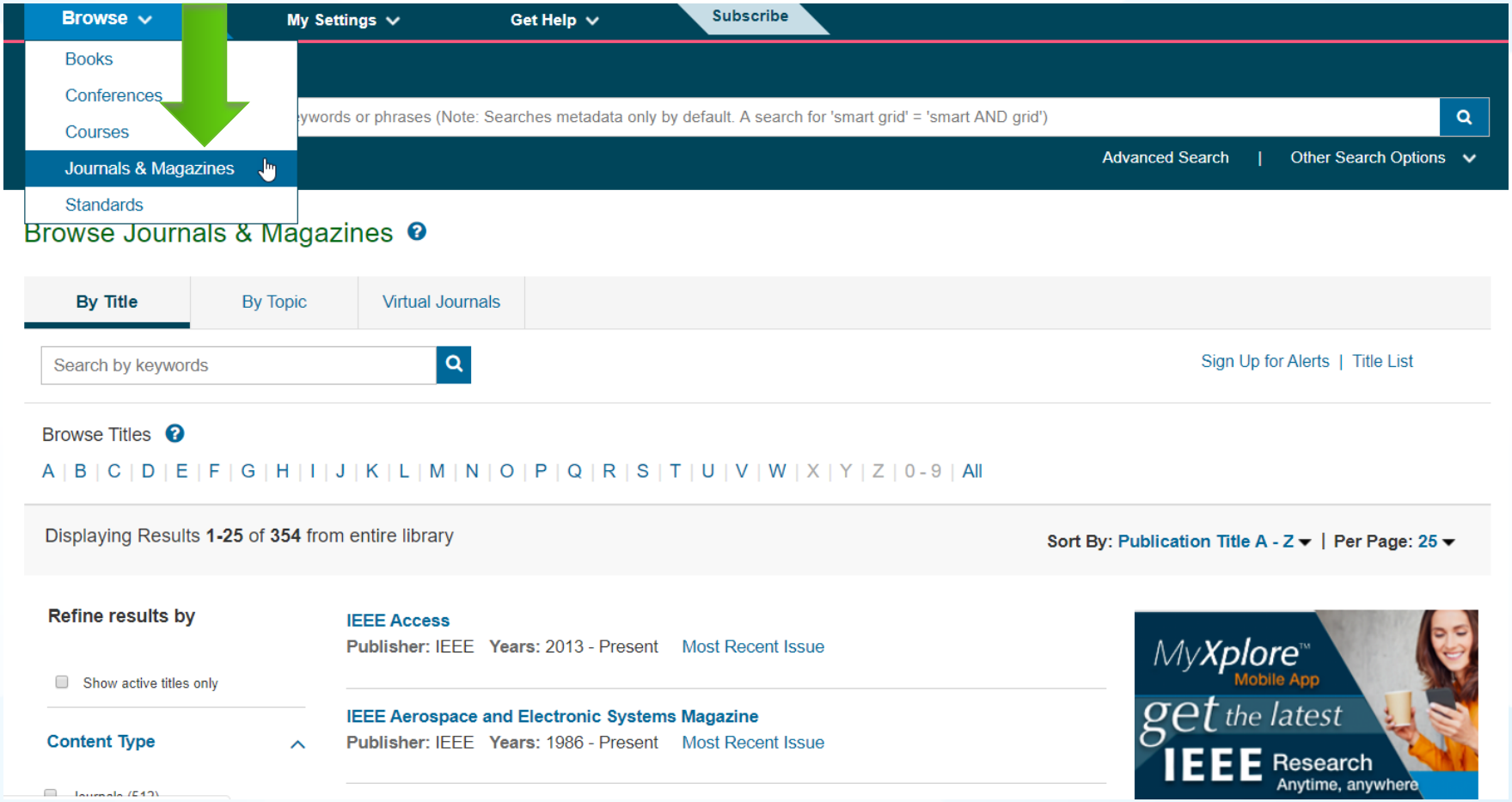
IEEE *Xplore:* An Enhanced Search Experience

https://ieeexplore.ieee.org

Browsing the Table of Contents



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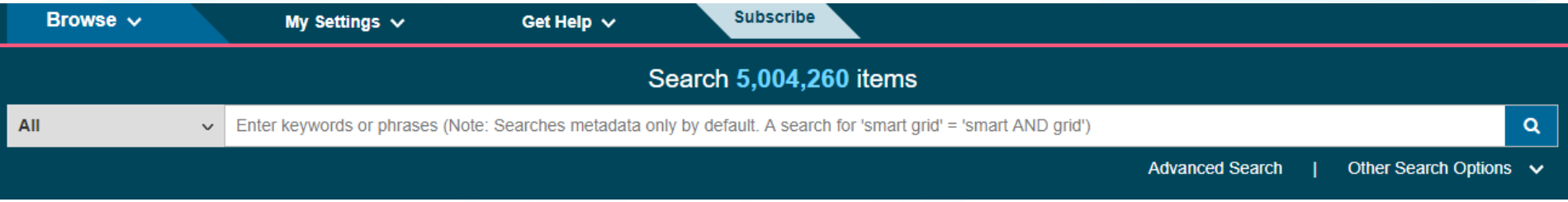
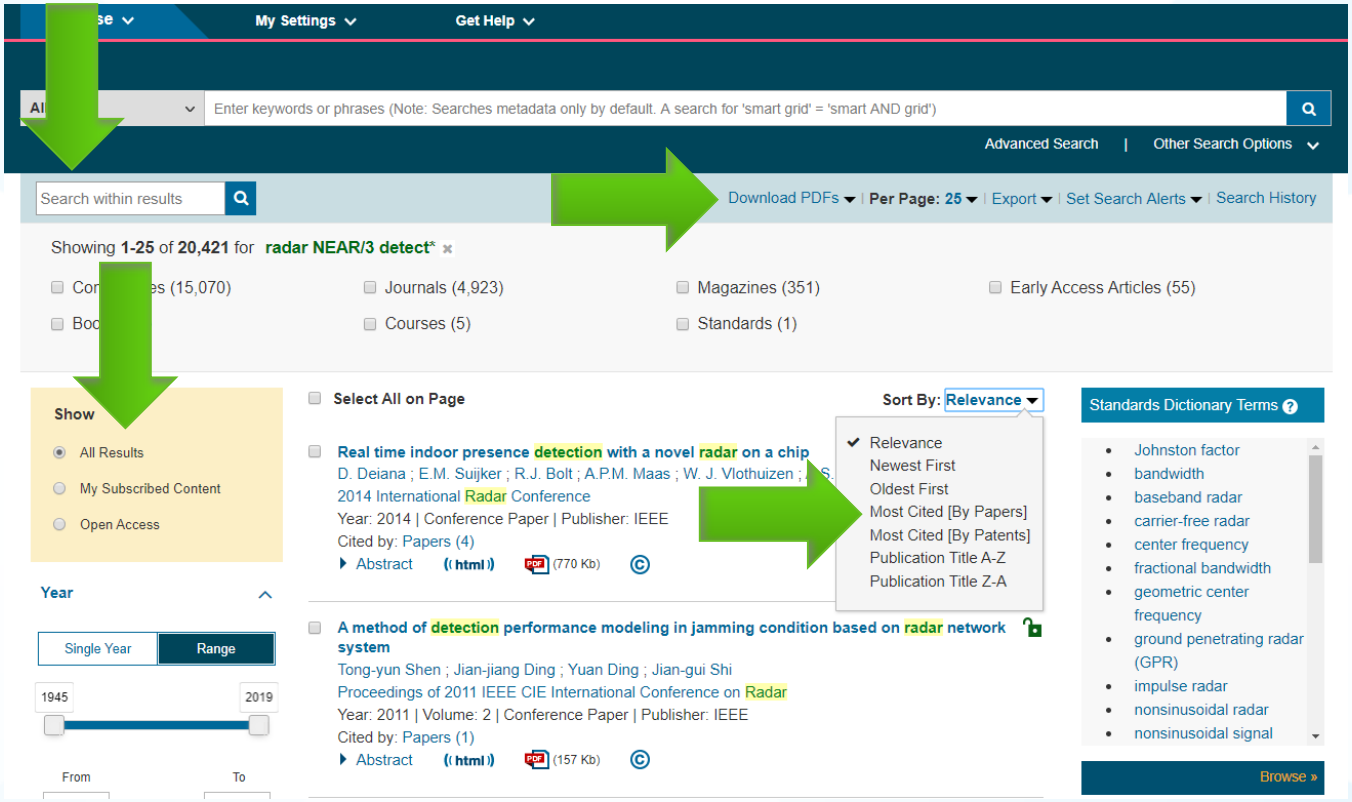
Support for Advanced Searchers: Basic Search



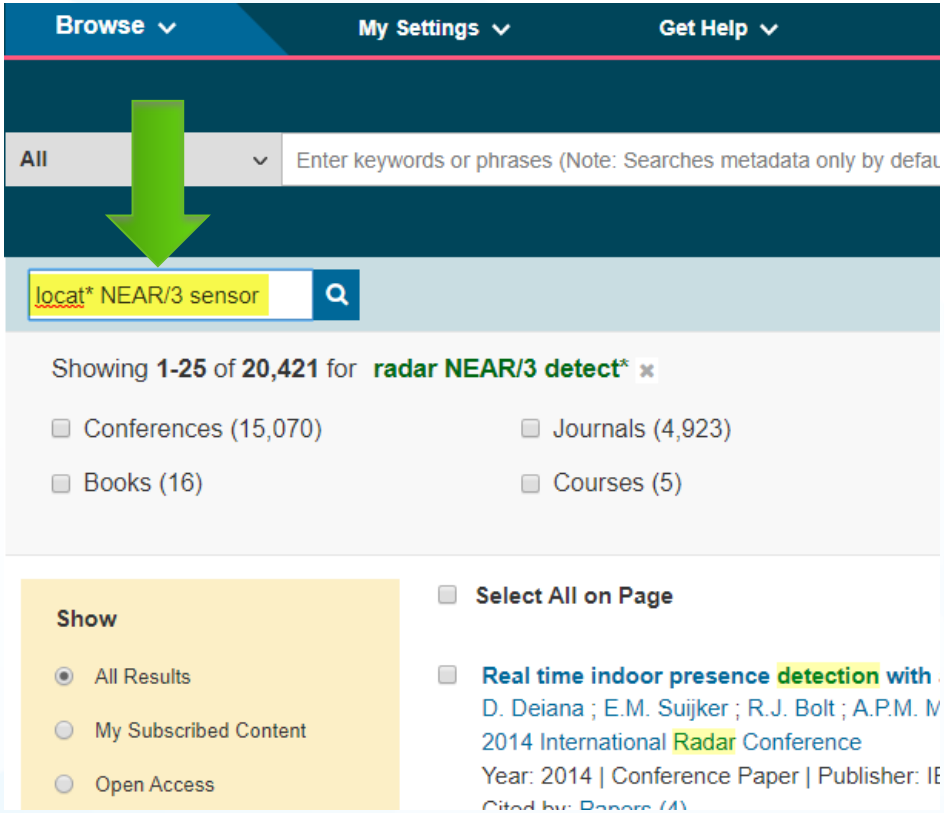
- Basic Search will search **METADATA ONLY**
- Case insensitive and automatic stemming
- Searches for British and US spellings in English. Use wildcards for greater precision.
- Boolean, Proximity, and Field Searching allowed (operators MUST be in all ALL CAPS)
- Wildcards supported: (* and ?)
- Wildcards 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).

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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HTML Article View

Real time indoor presence detection with a novel radar on a chip

Publisher: IEEE

6 Author(s) D. Deiana ; E.M. Suijker ; R.J. Bolt ; A.P.M. Maas ; W. J. Vlothuizen ; A.S. Kossen **View All Authors**

4 Pa Ci

532 Full Text Views

Abstract

Document Sections

I. Introduction

II. Radar Description

III. PIR Sensors

IV. Measurement Setup

V. Real Time Signal Processing

Authors

Figures

References

Citations

Keywords

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

INSPEC Accession Number: 14998397

Date Added to IEEE *Xplore*: 16 March 2015

DOI: 10.1109/RADAR.2014.7060375

Electronic ISBN: 978-1-4799-4195-7

Publisher: IEEE

Print ISSN: 1097-5764

Conference Location: Lille, France

SECTION I.
Introduction

More Like This

Understanding the signal structure in DVB-T signals for passive radar detection
2010 IEEE Radar Conference
Published: 2010

Passive radar detection with noisy reference signal using measured data
2017 IEEE Radar Conference (RadarConf)
Published: 2017

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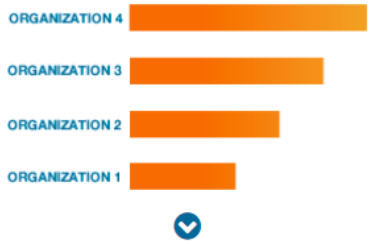

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Figures

Fig. 1.

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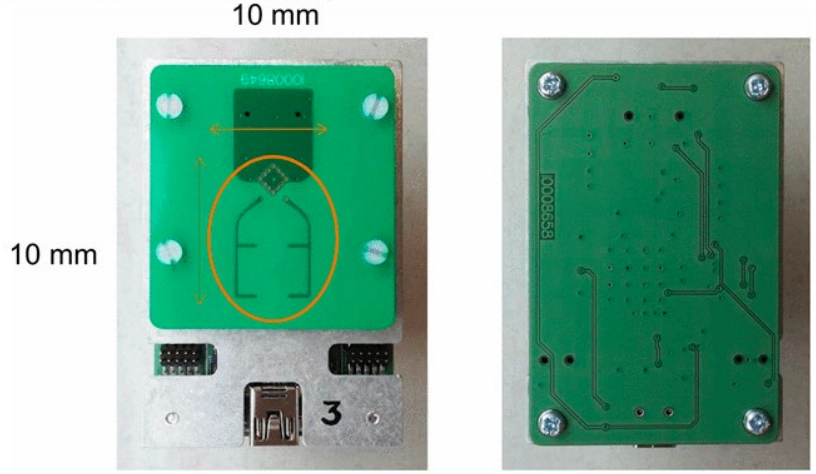
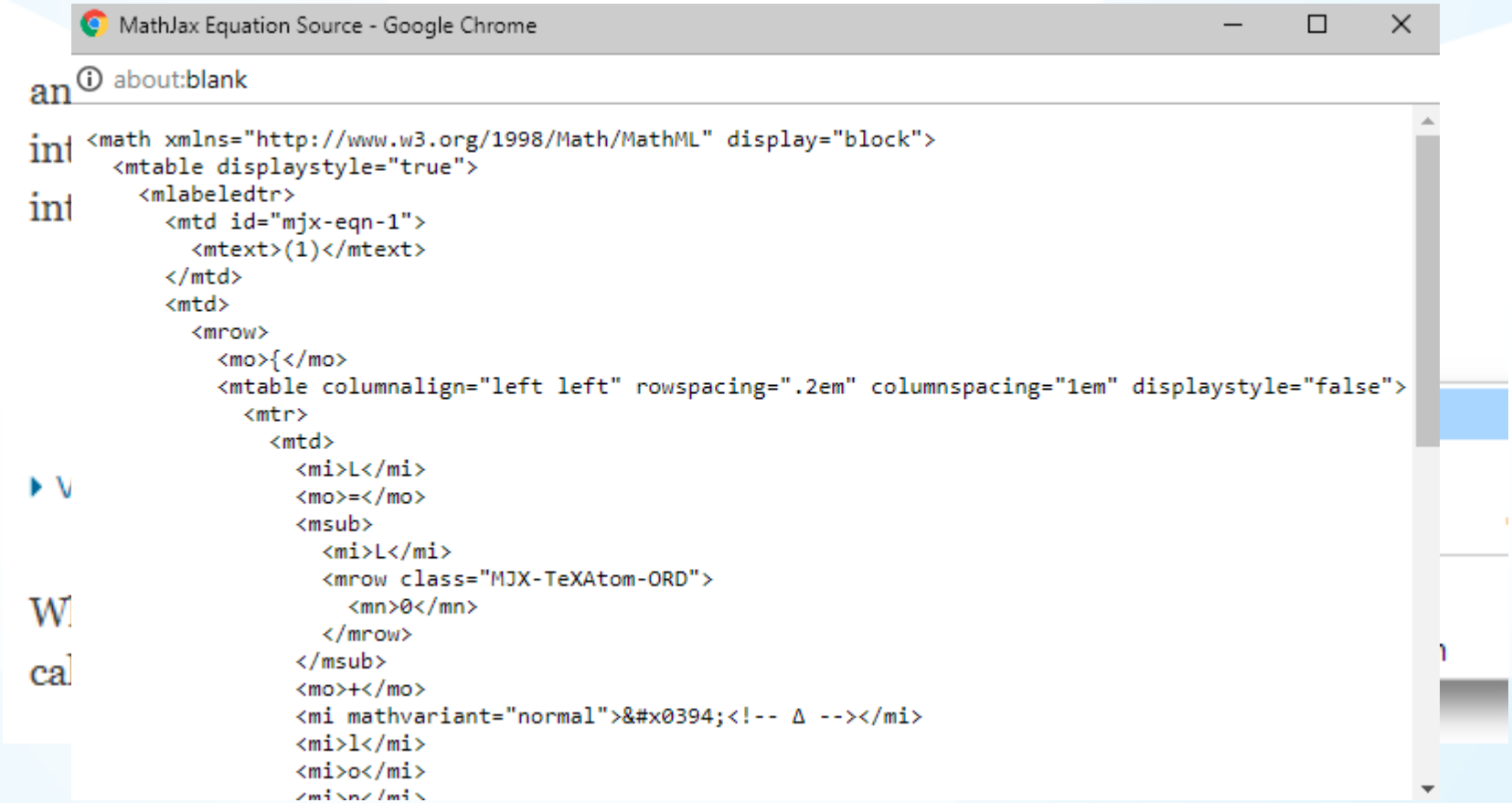


24 GHz FMCW radar. Top side view showing the chip and the two antennas (left); bottom side view (right).

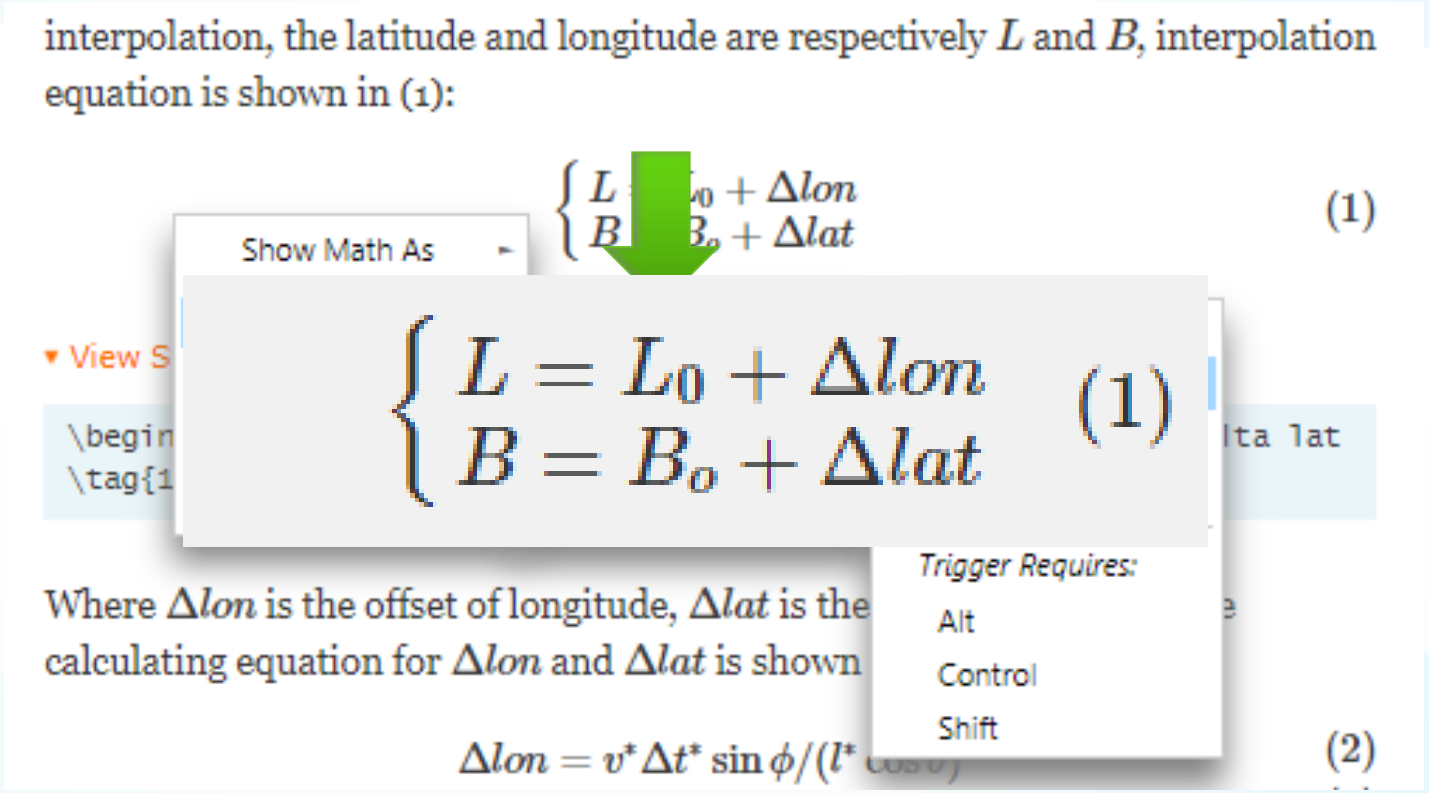
Fig. 2.

» View in Context » View Full Size Image

Right-Click Equations: Copy Source Code



Right-Click Equations: Zoom Function



References & Citations

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Citations

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References

Citation Map

1. [online] Available: www.enlight-project.eu.
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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.
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3. E. B. Soyer, "Pyroelectric Infrared (PIR) Sensor Based Event Detection", July 2009.
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4. [online] Available: http://www3.panasonic.biz/ac/e/search_num/index.jsp?c=detail&part_no=EKMC1601111.
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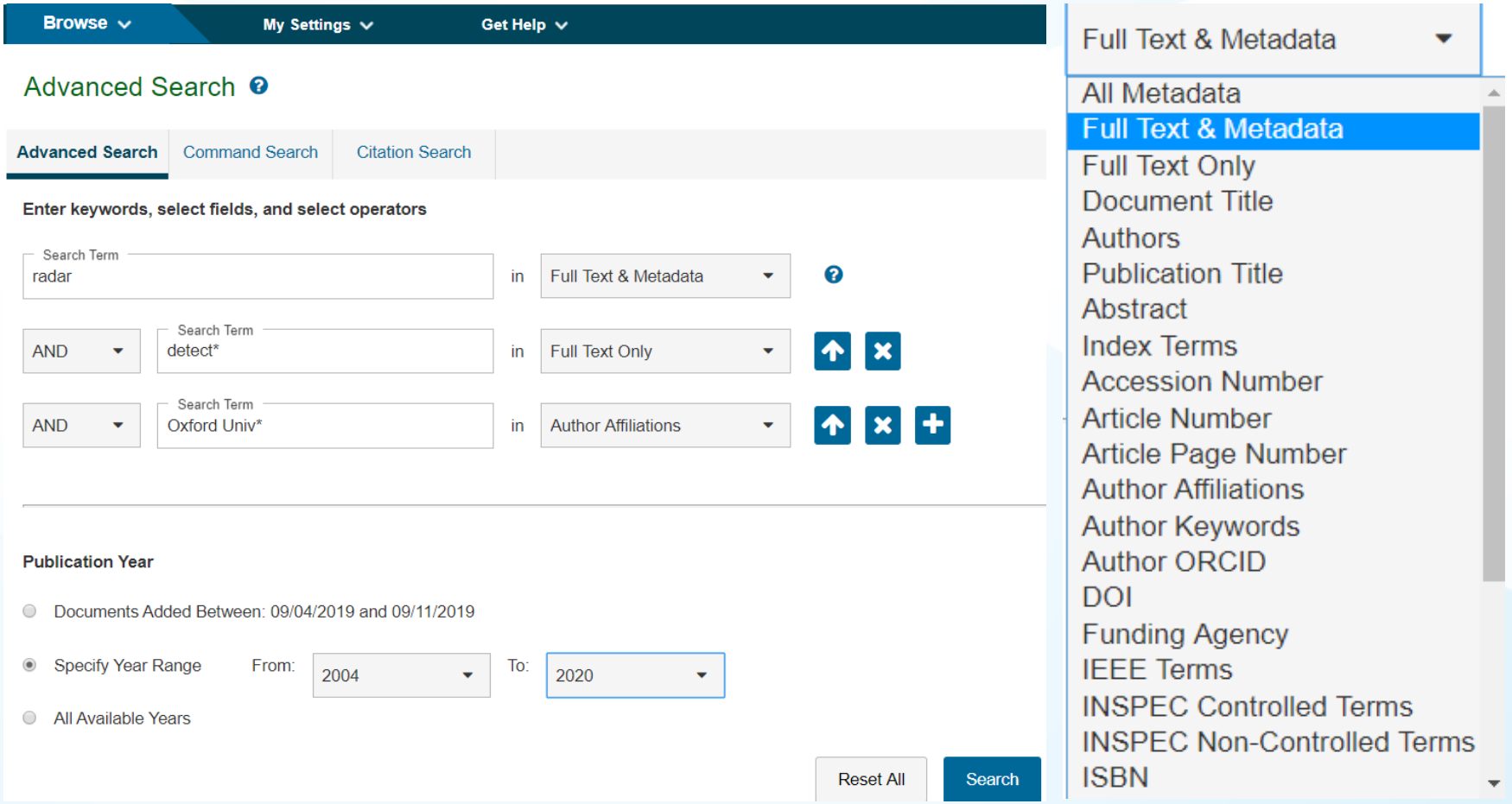
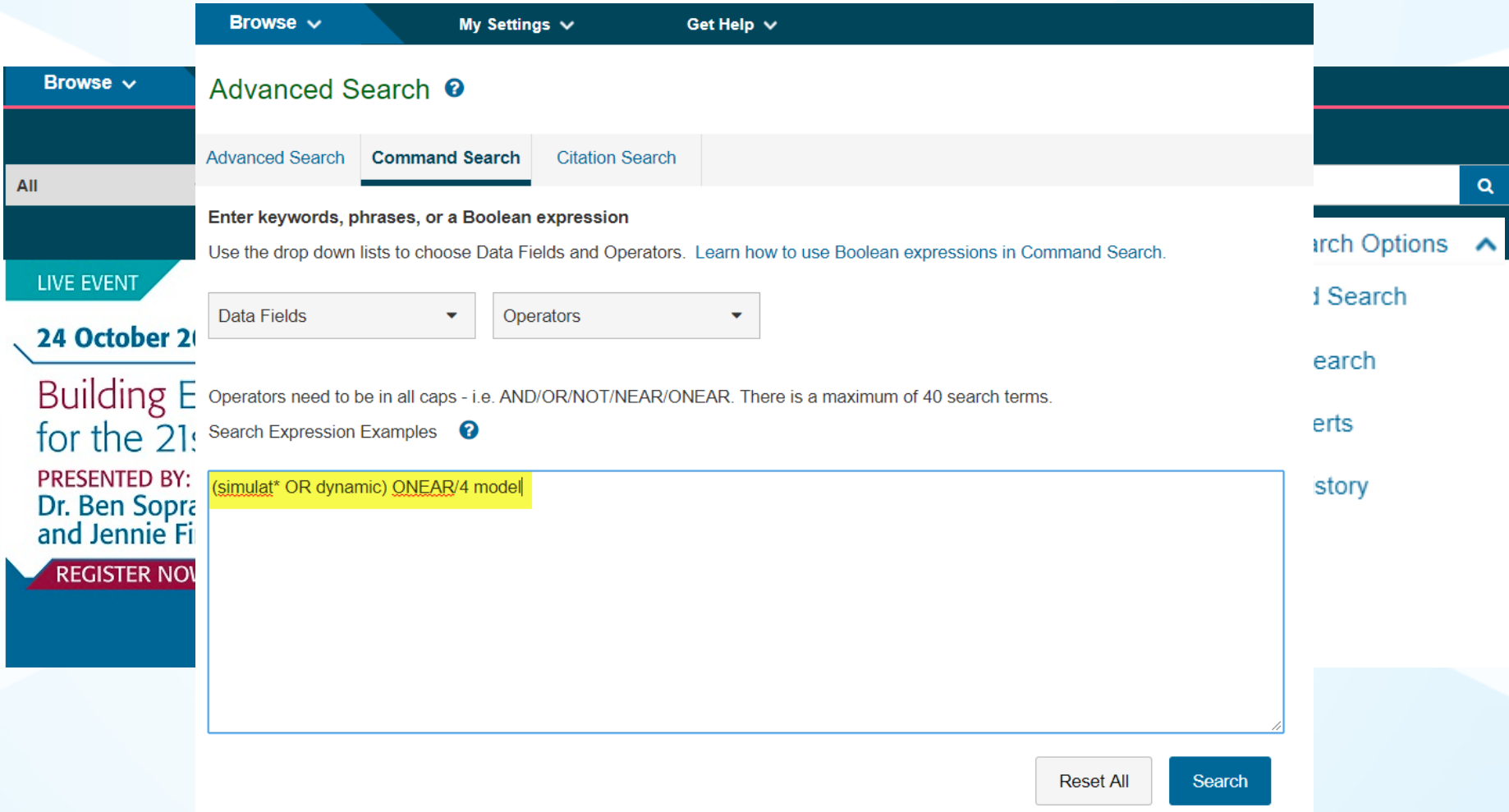
Advanced Search: Full Text and Field Searching

Leverage both Full Text & Metadata and Full Text Only searching across multiple search strings



Command Search



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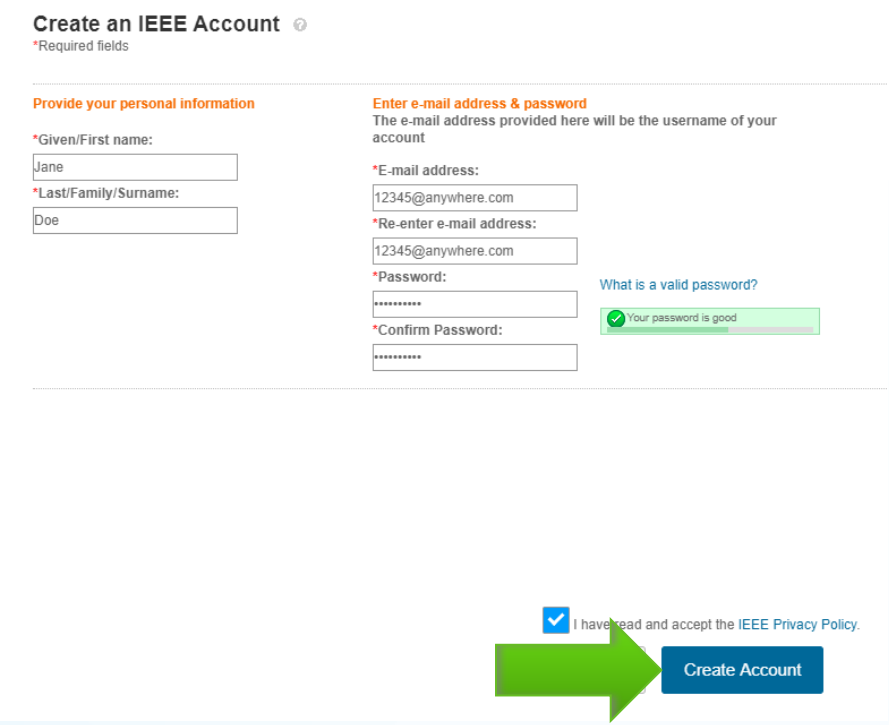

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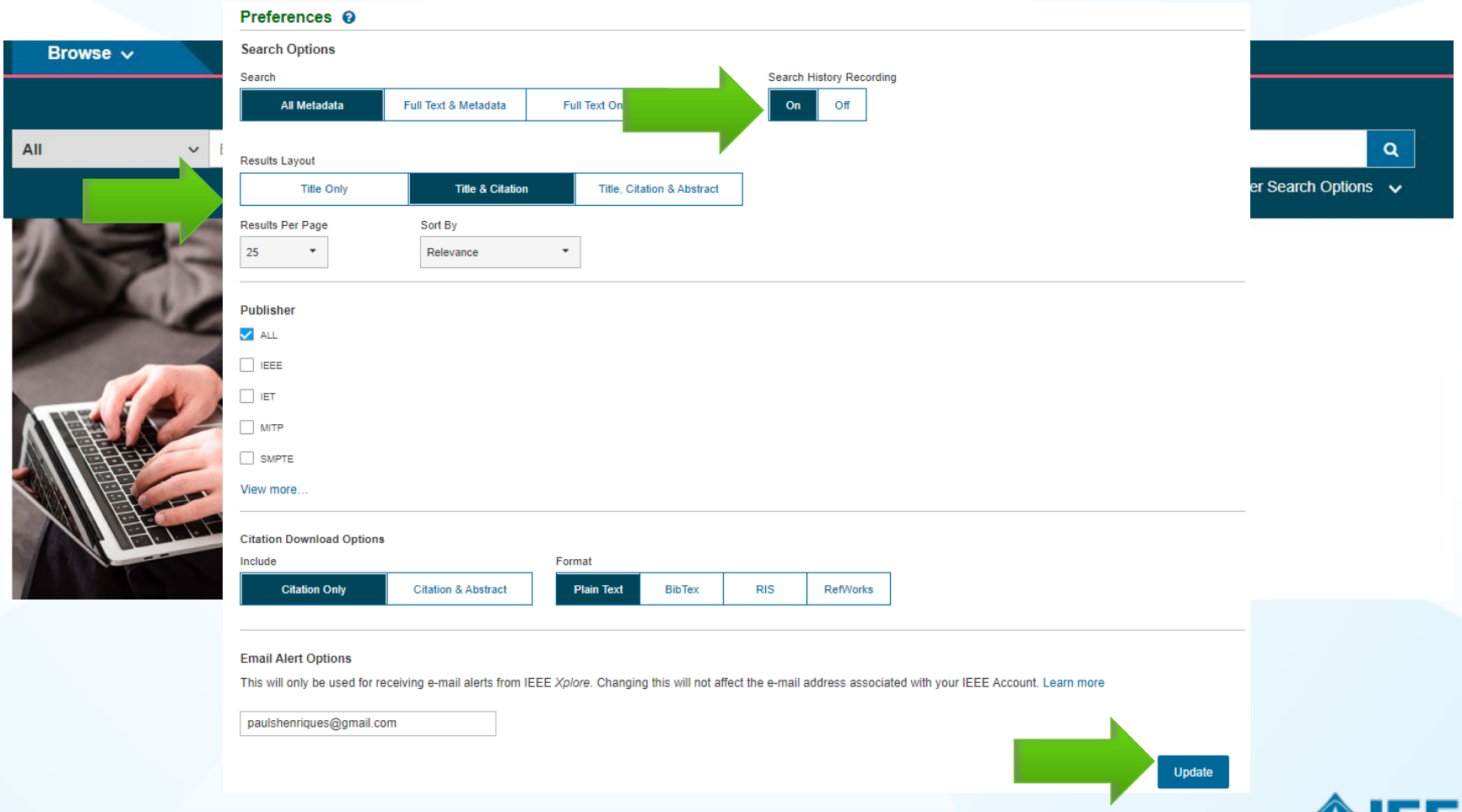

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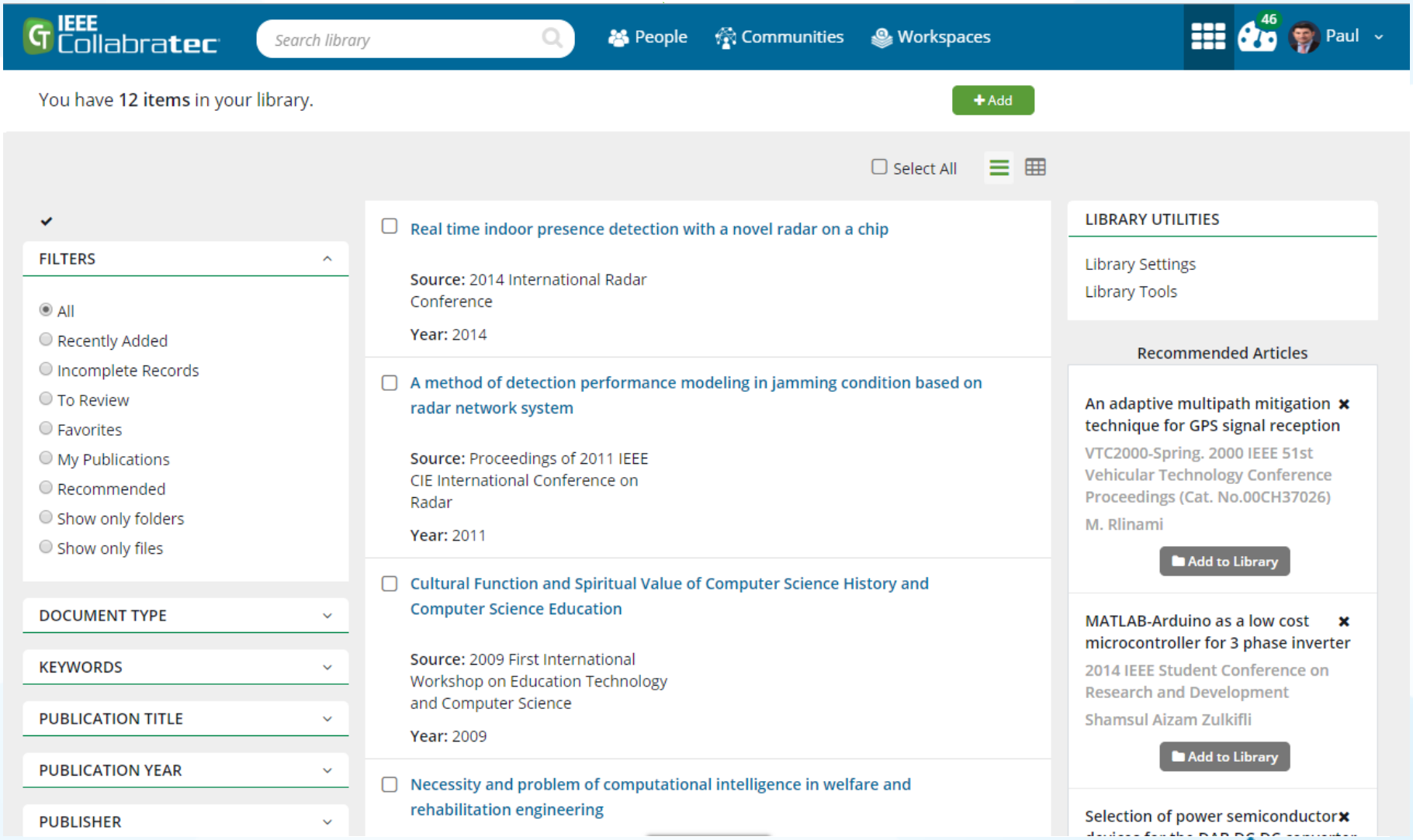

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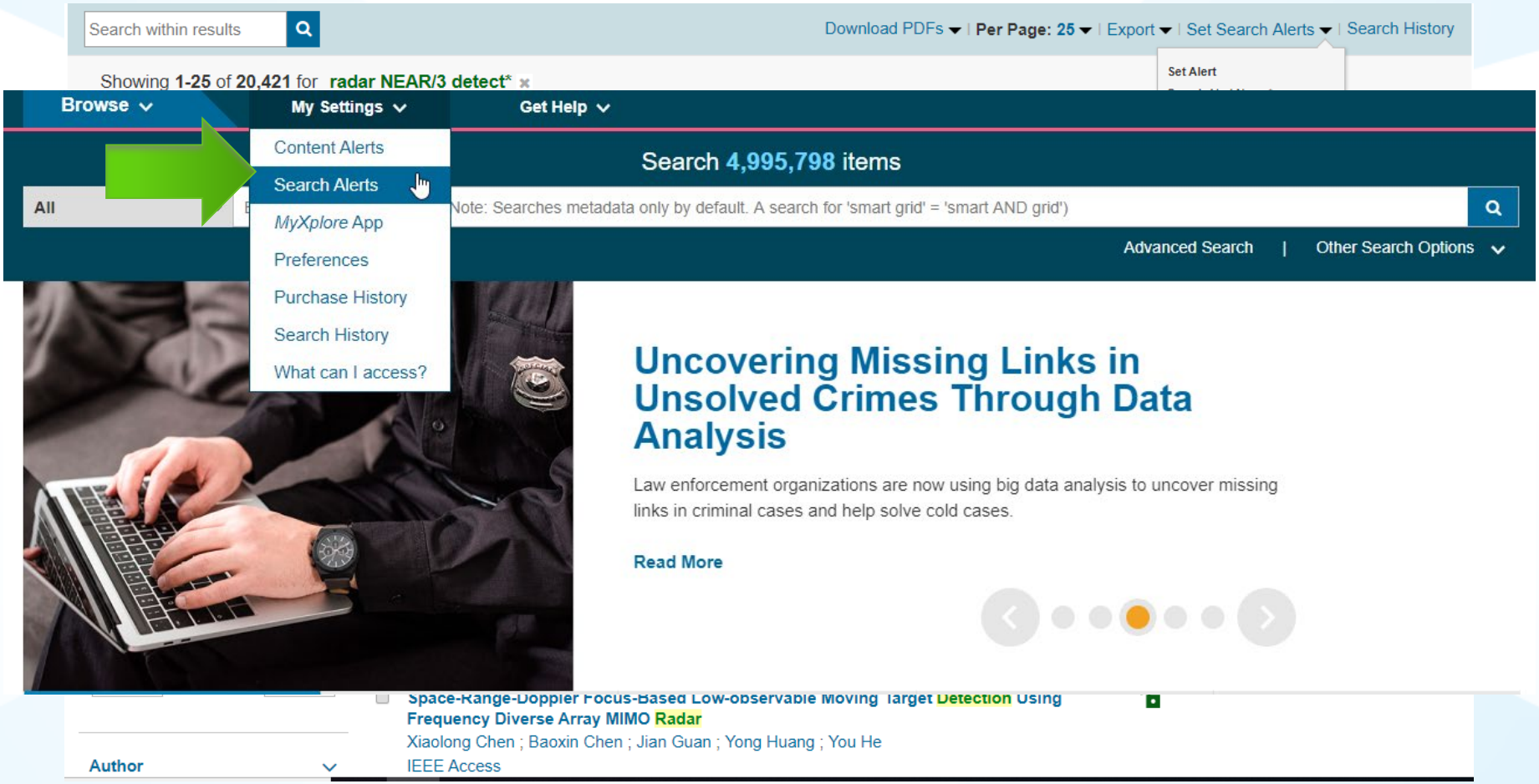

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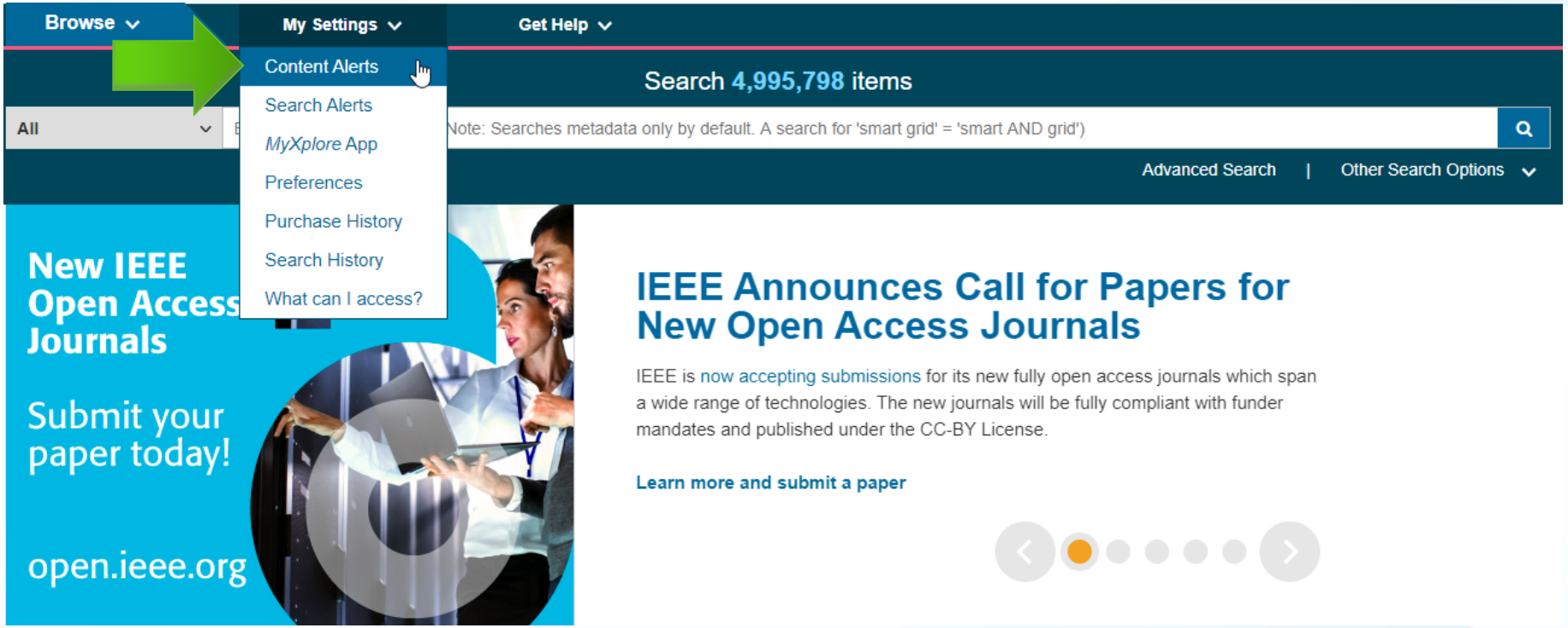

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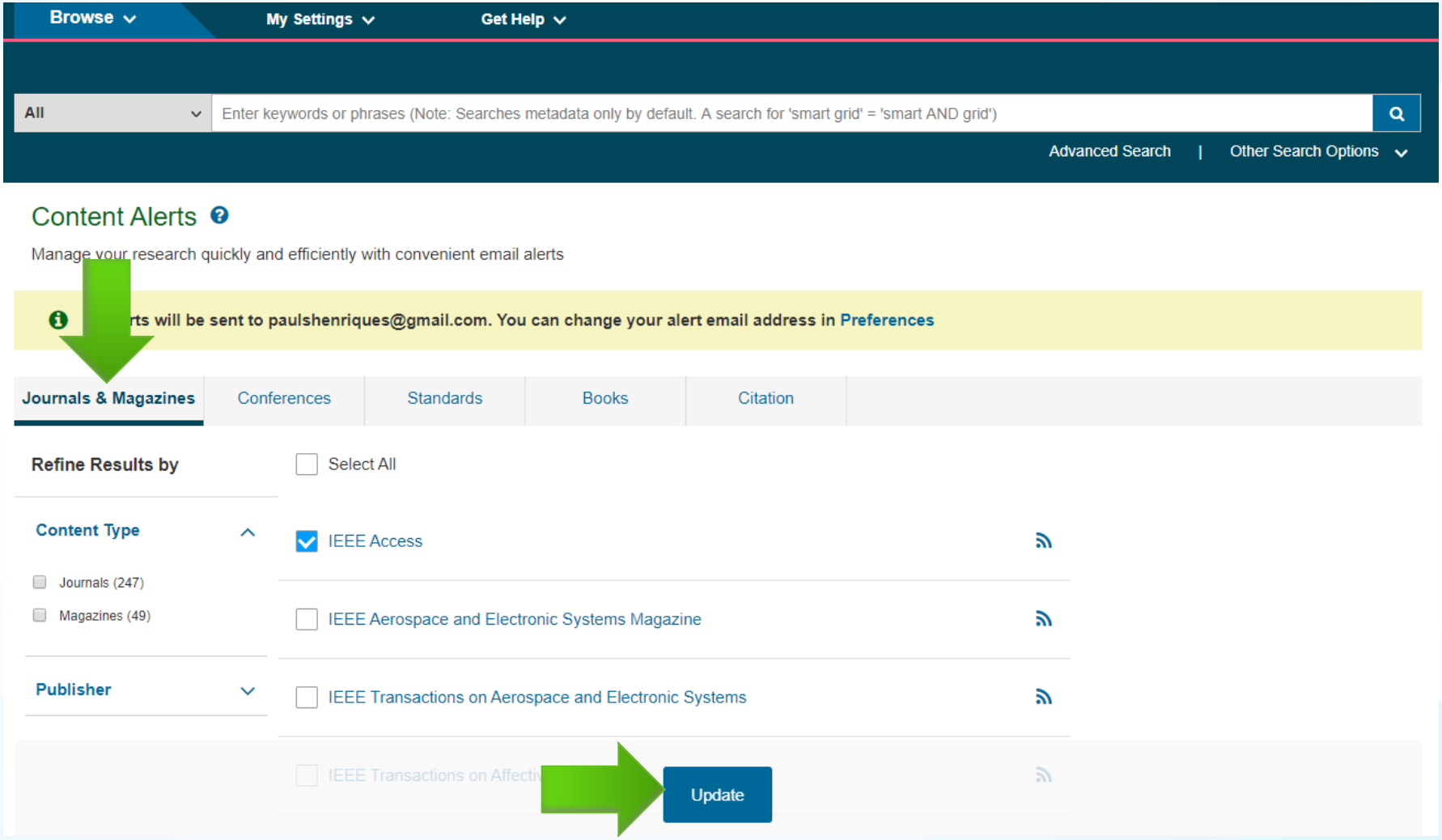

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Real time indoor presence detection with a novel radar on a chip

D. Deiana; E.M. Suijker; R.J. Bolt; A.P.M. Maas; W. J. Vlothuizen; A.S. Kossen

Visually controlled graphics

A. Azarbayejani; T. Starner; B. Horowitz; A. Pentland

High performance uncertainty quantification analysis of RF devices

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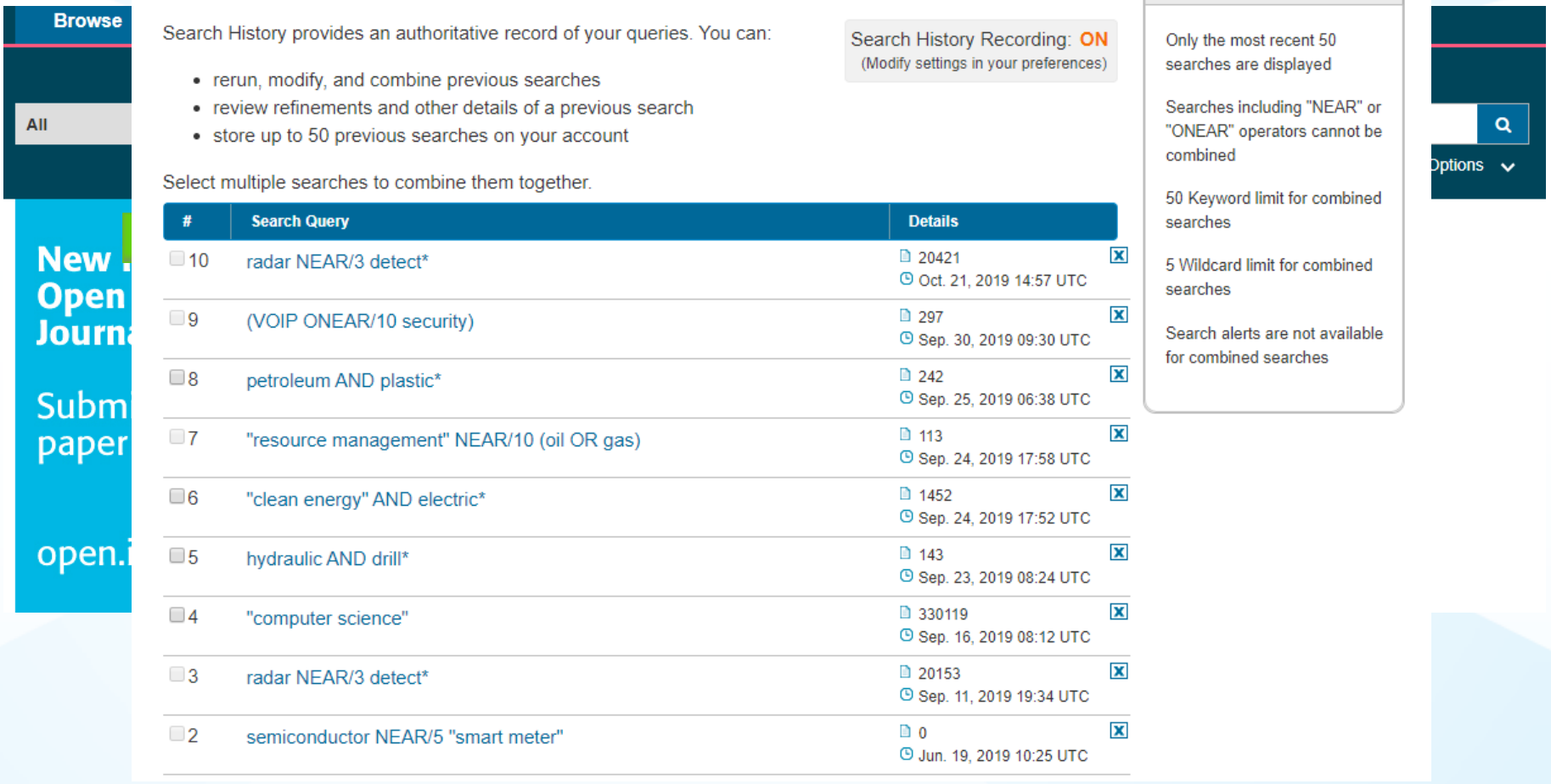

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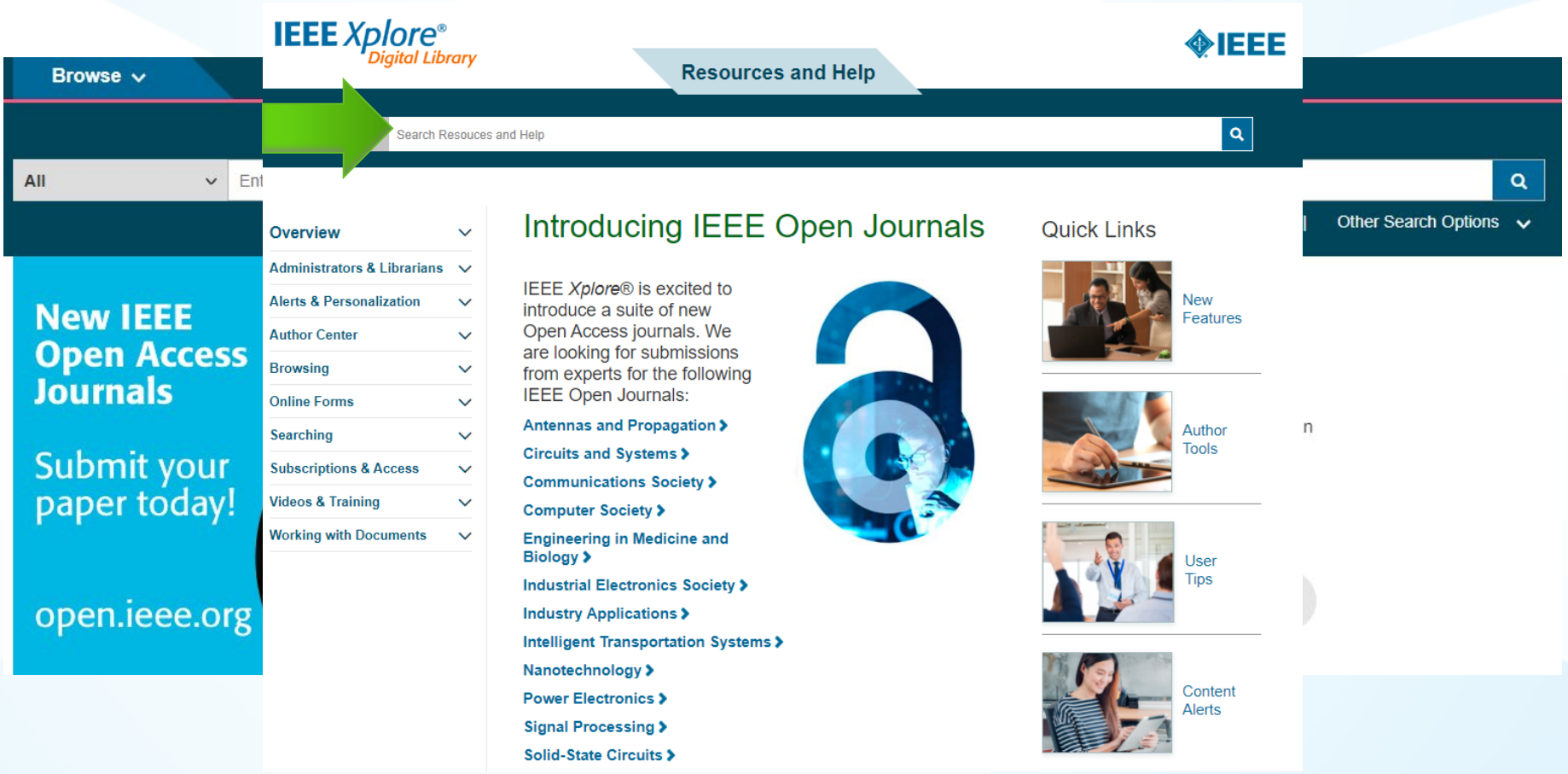

Gracias!

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