

Leveraging IEEE Resources & the IEEE *Xplore* Digital Library

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- ...and many more



New IEEE Journals for 2018

IEEE Letters of the Computer Society

A rigorously peer-reviewed forum for rapid publication of brief articles describing high-impact results in all areas of interest to the IEEE Computer Society.

IEEE Control Systems Letters

Peer-reviewed brief articles that provide a rapid and concise account of innovative ideas regarding the theory, design, and applications of all aspects of control engineering.

IEEE Sensors Letters

Articles on the theory, design, fabrication, manufacturing, and application of devices for sensing and transducing physical, chemical, and biological phenomena, with emphasis on the electronics and physics aspects of sensors and integrated sensor-actuators.

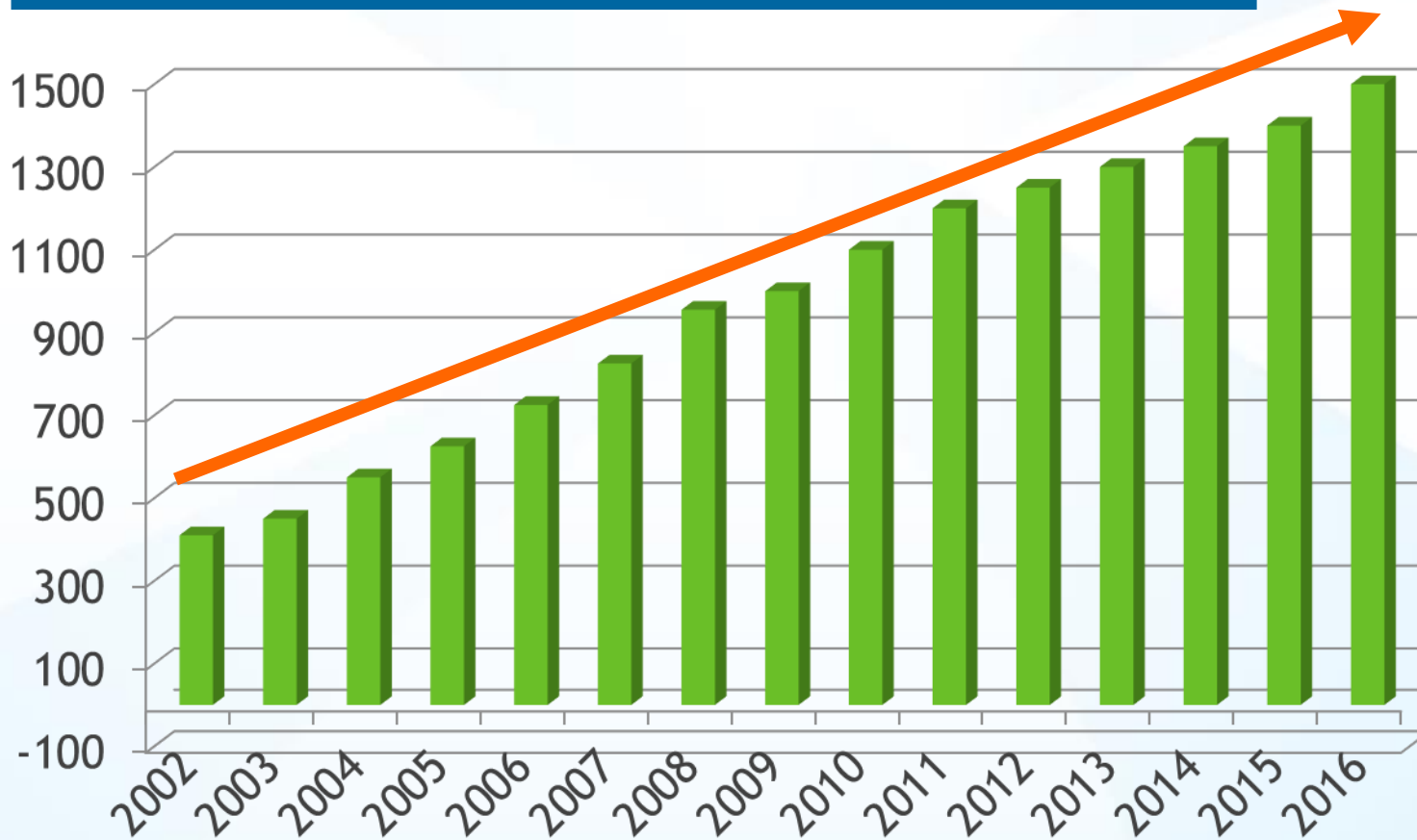
IEEE Solid-State Circuits Letters

A monthly publication of original and significant contributions in the area of solid-state circuits. The emphasis is on the transistor-level design of integrated circuits (ICs). Circuits integrated in micro- and nano-electronic (e.g., VLSI) technologies are of principal interest.

More than 60 new journals added in the last ten years

The IEEE conference collection continues to grow

Over 1,500 annual conferences in 2016
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The screenshot displays the IEEE Xplore Digital Library website. At the top, the IEEE Xplore Digital Library logo is on the left, and the IEEE logo is on the right. Below the logo, there is a navigation bar with links for Browse, Search Q, My Settings, and Get Help. The main header area features the text "IEEE Courses" and "Take your skills to the next level." with a button for "All Subscribed Courses". Below this, there is a section for "Course Programs" with four featured courses: "Cyber Security Tools for Today's Environment", "Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks", "National Electrical Safety Code", and "Internet of Things". Each course has a "New!" badge. Below the course programs, there is a "Categories" section with ten categories: Aerospace, Bioengineering, Communication, Networking & Broadcasting, Components, Circuits, Devices & Systems, Computing & Processing, Engineering Profession, English for Engineering, Fields, Waves & Electromagnetics, Free Tutorials, and General Topics for Engineers. Each category has a corresponding icon. The IEEE logo is visible in the bottom right corner.

Redesign of Full-Text HTML Articles

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Browse Journals & Magazines > IEEE Access > Volume: 1

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Millimeter Wave Mobile Communications for 5G Cellular: It Will Work!

[View Document](#) **1220** Paper Citations **2** Patent Citations **77701** Full Text Views [Open Access](#)

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10 Author(s) [Theodore S. Rappaport](#) ; [Shu Sun](#) ; [Rimma Mayzus](#) ; [Hang Zhao](#) ; [Yaniv Azar](#) ; [Kevin Wang](#) ; [M. Wong](#) ; [Joelyn K...](#) [View All Authors](#)

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views.

Distinguished Engineering Alumnus from his alma mater. He holds the David Lee/Ernst Weber Chair in Electrical and Computer Engineering at Polytechnic Institute, New York U... [View More](#)

She joined NYU WIRELESS Research Center in August 2012. She has co-authored two conference publications, and is now working on millimeter-wave propagatio... [View More](#)

three conference publications.

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Full-Text HTML for Standards

- Mobile-friendly
- Figures carousel
- Table of contents
- Search within a Standard
- Evolution of the Standard

Browse Standards ?

1394-2008 - IEEE Standard for a High-Performance Serial Bus
Revision of IEEE Std 1394-1995
Status: **Active - Approved**

[View Document](#) **2** Patent Citations **2549** Full Text Views

[Abstract](#) [Figures](#) [References](#) [Citations](#) [Keywords](#) [Definitions](#) [Metrics](#) **Versions** [Media](#)

Related Articles
C98.6-2002 - IEEE Standard for Safety Levels with Respect to Human Exposure to E...
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Evolution of the Standard

- Active**
Approved:
1394-2008 - IEEE Standard for a High-Performance Serial Bus
» IEEE Std 1394-1995
Redline:
1394-2008 - IEEE Standard for a High-Performance Serial Bus - Redline
» IEEE Std 1394-1995
- Inactive**
Draft:
P1394/D2, Apr 2008 - IEEE Draft Standard for High Performance Serial Bus
Draft:
P1394_D1, Oct 2007 - IEEE Draft Standard for High Performance Serial Bus (Incorporates IEEE 1394A-2000, IEEE 1394B-2002 and IEEE 1394C-2006)
Superseded:
1394c-2006 - IEEE Standard for a High-Performance Serial Bus - Amendment 3
Draft:
P1394c/D1.2 - Unapproved IEEE Draft Amendment Standard for a High Performance Serial Bus-- Amendment 3 (Amendment to IEEE Std 1394-1995 as Amended by IEEE Std 1394A-2000 and IEEE Std 1394B-2002)
Draft:
P1394c/D1.1 - Unapproved IEEE Draft Amendment Standard for a High Performance Serial Bus-- Amendment 3 (Amendment to IEEE Std 1394-1995 as Amended by IEEE Std 1394A-2000 and IEEE Std 1394B-2002) Superseded by P1394C_D1.2
Superseded:
1394c-2006 - IEEE Standard for a High-Performance Serial Bus - Amendment 3

Standard Timeline

- Approved Oct. 21 2008
- Redline Oct. 21 2008
- Draft 2008
- Draft 2007
- Superseded June 8 2007
- Draft 2006
- Draft 2006
- Superseded 2006
- Superseded 2002
- Superseded 2000
- Superseded 1996

NEW! View and Run Code with Code Ocean

The screenshot displays the Code Ocean web interface. At the top, there is a navigation bar with 'Browse', 'My Settings', and 'Get Help' dropdown menus. Below this, a browser window shows the URL 'https://codeocean.com/2016/10/13/block-sparse-decoding/code'. The main interface has tabs for 'Code', 'Metadata', 'Interface', and 'Results'. A green arrow points to the 'Run' button in the 'Results' tab. The 'Code' tab is active, showing a MATLAB script named 'test_superres.m'. The script includes comments and code for initializing variables, loading an image, extracting patches, and training a dictionary. The 'Results' tab shows a 'Published Result' with a run time of 0h 02m 03s on Oct 05, 2016. A list of output files is displayed, including 'SuperRes-BKSVD-SAC.jpg', 'SuperRes-BKSVD.jpg', 'SuperRes-KSVD.jpg', 'SuperRes-overlap-BKSVD-SAC.jpg', 'SuperRes-overlap-BKSVD.jpg', and 'SuperRes-overlap-KSVD.jpg'.

Block Sparse Decoding

test_superres.m

```
1 % Init
2 clear all;
3 close all;
4 %clc;
5
6 %% First we need to train a dictionary
7
8 %% patch parameters
9 PATCH.ROWS = 8; % number of rows in each patch
10 PATCH.COLS = 8; % number of columns in each patch
11 PATCH.COLORS = 1; % use gray-scale or RGB
12 PATCH.SZ = PATCH.ROWS*PATCH.COLS*PATCH.COLORS;
13 N = PATCH.ROWS*PATCH.COLS; % number of pixels in patch
14
15
16
17 %% load an image for training
18 ima = imread('..\input/wreck.jpg');
19 if size(ima,3)>1, ima = rgb2gray(ima); end
20
21
22 %% extract all distinct patches in training image
23 Y = im2col(double(ima), [PATCH.ROWS PATCH.COLS], 'distinct');
24
25
26
27 %% Create Dictionary with training signals:
28
29 N = PATCH.ROWS*PATCH.COLS; % number of pixels in patch
30 s = 3; %dimension of blocks
31 k = 2;
32 K = 96; %Number of columns in dictionary
33 L = size(Y,2); %Number of training signals. should be thousands. Too many will be too heavy for PC
34 max_it = 50; %Nr of iterations for the algorithm to converge.
35 B = K/s; %Number of blocks in D. Should be an order of magnitude higher than the
36 %block sparsity k, otherwise the representations wont be sparse
37 d0 = 1:K; %block structure with K blocks of size 1 (i.e. block structure ignored)
38 d = repmat(1:B, s,1); d = d(:)'; %block structure with B blocks of size s
39 M = 16; %number of samples after compression
40
41 %% train dictionaries
```

Published Result

Run Time: 0h 02m 03s | Oct 05, 2016 | 12:33


Output	Size
SuperRes-BKSVD-SAC.jpg	5.45 KB
SuperRes-BKSVD.jpg	10.63 KB
SuperRes-KSVD.jpg	8.27 KB
SuperRes-overlap-BKSVD-SAC.jpg	4.39 KB
SuperRes-overlap-BKSVD.jpg	5.04 KB
SuperRes-overlap-KSVD.jpg	5.12 KB

Programming Language: Matlab

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Displaying results 1-25 of 211,565 for **wireless networks** ✕

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Search within results 🔍

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A maximum of 10 PDFs can be downloaded at a time.

Document Title

- ☒ Capacity of Large-Scale Wireless Networks Under Jamming Modeling and Analyses...
- ☒ Interference in IM/DD optical wireless communication networks
- ☒ Joint Adaptive Rate and Scheduling for Unicasting Video Streams in Cellular Wireless Network...

Standards Dictionary Terms ?

- mac
- sap
- llc
- ip
- pdu
- qos
- mpdu
- lan
- frame
- bs
- authenticator
- system

☒ **Interference in IM/DD optical wireless communication networks** 🔒

Michael Rahaim; Thomas D. C. Little

IEEE/OSA Journal of Optical Communications and Networking

Year: 2017 Volume: 9 Issue: 9

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Standards By Version

eBooks

Citations

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☐ **2D microwave tomographic system for extremities imaging: Initial performance assessment in animal trial**

S. Semenov; J. Kellam; T. Williams; M. Quinn; Bindu G Nair

☐ **Development of a laboratory platform for distributed grid management applications**

Nicholas Honeth; Lars Nordström; Sandro Iacovella; Pieter Vingerhoets; Geert Deconinck

Citation Alerts Set: 2

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Remove

» Manage Content Alerts

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management methods for program code distribution, configuration and run-time parameterization.

A characteristic of DER is that the types of equipment and control and monitoring interfaces used exhibit a wide diversity which can depend on factors such as vendor preference and locale. This has the implication that distributed grid management application development platforms must be designed to deal with a heterogeneous profile of connected devices while still maintaining a common internal representation of information between application nodes.

The use of simulation platforms allows researchers to evaluate the functionality and performance of applications on simulation models. Such models are however, often domain-specific and require

Basic Search

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Search 4,300,459 items

All ▾ Enter keywords or short phrases (searches metadata only by default)




Advanced Search

| Other Search Options ▾


- The Basic Search function searches **metadata only**
- Automatically ANDs each search term
- Use quotes (“ ”) for an exact phrase
- Automatic stemming
- Case insensitive
- Type ahead (aka auto suggest) functionality


Search Results and Refinements

Displaying results 1-25 of 211,565 for **wireless networks** 


Show **All Results** | Per Page **25** | Sort By **Relevance**


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Search within results 


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- ☐ Standards (604)
- ☐ Books & eBooks (525)
- ☐ Courses (38)



Year 

Author 


Affiliation 

Publication Title 

Capacity of Large-Scale Wireless Networks and Analyses
Hong Huang; Yousef Jaradat; Satyajayant Misra; A. Asorey-Cacheda; Reza Tourani; Mohammad Masoum
IEEE Transactions on Vehicular Technology
Year: 2017, Volume: 66, Issue: 9
Pages: 8524 - 8534
IEEE Journals & Magazines
[Abstract](#)  (356 Kb) 

Interference in IM/DD optical wireless communication networks
Michael Rahaim; Thomas D. C. Little
IEEE/OSA Journal of Optical Communications and Networking
Year: 2017, Volume: 9, Issue: 9
Pages: D51 - D63
IEEE Journals & Magazines
[Abstract](#)  (683 Kb) 

Joint Adaptive Rate and Scheduling for Unicasting Video Streams in Cellular Wireless Networks
Hung-Bin Chang; Izhak Rubin; Stefania Colonnese; Francesca Cuomo; Ofer Hadar

Standards Dictionary Terms 

- mac
- sap
- llc
- ip
- pdu
- qos
- mpdu
- lan
- frame
- bs
- authenticator
- system
- osi

[Browse »](#)

Right-Click Equations: Copy Source Code



The screenshot shows a web browser window titled "MathJax Equation Source - Google Chrome". The address bar displays "Step 1 about:blank". The page content shows a right-click context menu open over a MathJax equation source code snippet. A green arrow points to the right-click action. The context menu includes options like "Full Text" and "Click to Top". The source code is as follows:

```
<math xmlns="http://www.w3.org/1998/Math/MathML" display="block">
  <mtable displaystyle="true">
    <mlabeledtr>
      <mtid id="mjax-eqn-1">
        <mtext>(1)</mtext>
      </mtid>
      <mtid>
        <msub>
          <mi>E</mi>
          <mrow class="MJX-TeXAtom-ORD">
            <mrow class="MJX-TeXAtom-ORD">
              <mi mathvariant="normal">e</mi>
              <mi mathvariant="normal">x</mi>
              <mi mathvariant="normal">a</mi>
              <mi mathvariant="normal">c</mi>
              <mi mathvariant="normal">t</mi>
            </mrow>
          </mrow>
        </msub>
      </mtid>
    </mlabeledtr>
  </mtable>
</math>
```

Right-Click Equations: Zoom Trigger

The graph construction needs to be detailed. The edge weights are constructed as follows:

$$E_{\text{exact}}(I_i, I_j) = \begin{cases} \|I_i - R(I_i, I_j)\|, & \text{if } i \neq j \text{ and } |i - j| \leq \delta \\ \infty, & \text{otherwise} \end{cases} \quad (1)$$

▼ View

\beg
\Ver
j} \\
\end

$$E_{\text{exact}}(I_i, I_j) = \begin{cases} \|I_i - R(I_i, I_j)\|, & \text{if } i \neq j \text{ and } |i - j| \leq \delta \\ \infty, & \text{otherwise} \end{cases} \quad (1)$$

where the function $R(X, Y)$ returns the registered source image Y with image X . The norm ($\|\cdot\|$) here denotes the sum of absolute differences of pixel values between two images. By convention, no edge with infinite weight is constructed. The sparsity of the graph depends on user defined graph width parameter δ . A smaller value of δ enforces greater sparsity. Note that for $\delta = n-1$, we construct a complete graph.

Abstract

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wireless in Full Text & Metadata ▼

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IEEE Terms

INSPEC Controlled Terms

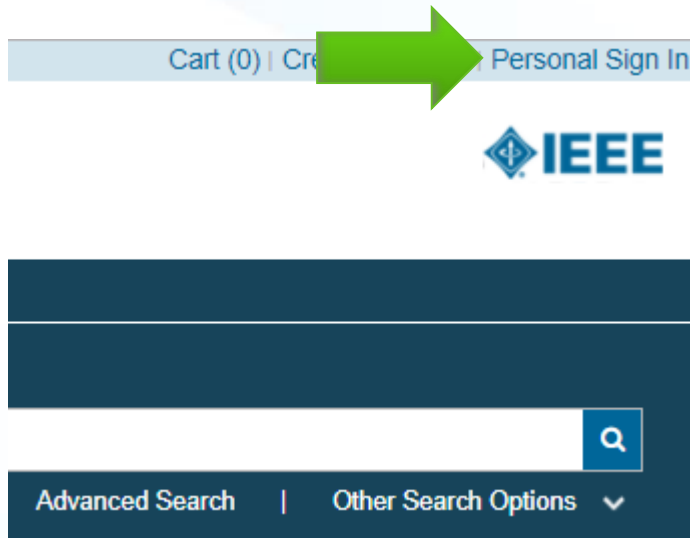
INSPEC Non-Controlled Terms

ISBN

ISSN

Issue

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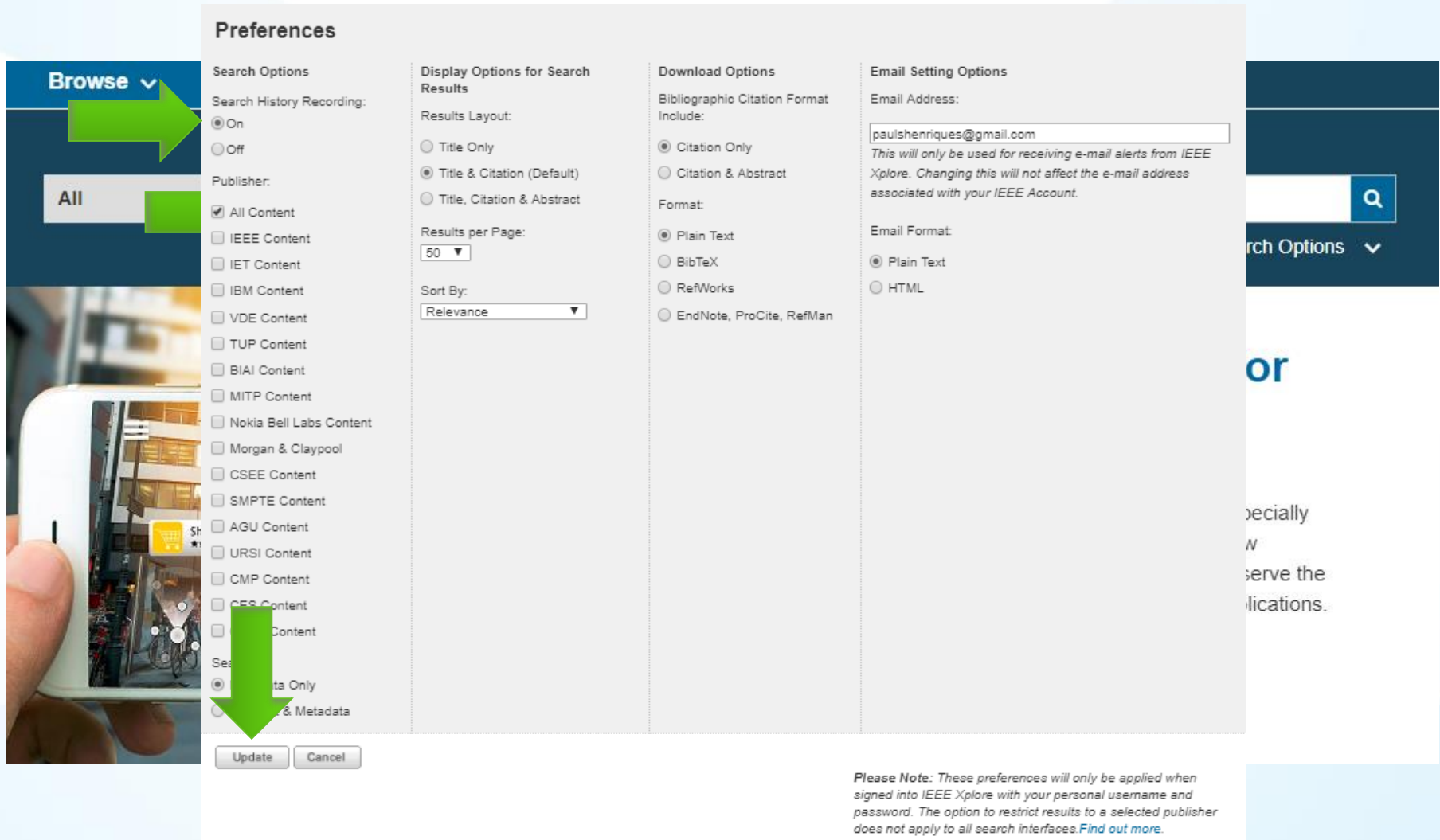


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☐ SMPTE Content
☐ AGU Content
☐ URSI Content
☐ CMP Content
☐ CES Content
☐ Content
Search Results:
☒ Title Only
☐ Title & Citation & Metadata

Display Options for Search Results

Results Layout:
☐ Title Only
☒ Title & Citation (Default)
☐ Title, Citation & Abstract

Results per Page:
50

Sort By:
Relevance

Download Options

Bibliographic Citation Format Include:
☒ Citation Only
☐ Citation & Abstract

Format:
☒ Plain Text
☐ BibTeX
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☐ EndNote, ProCite, RefMan

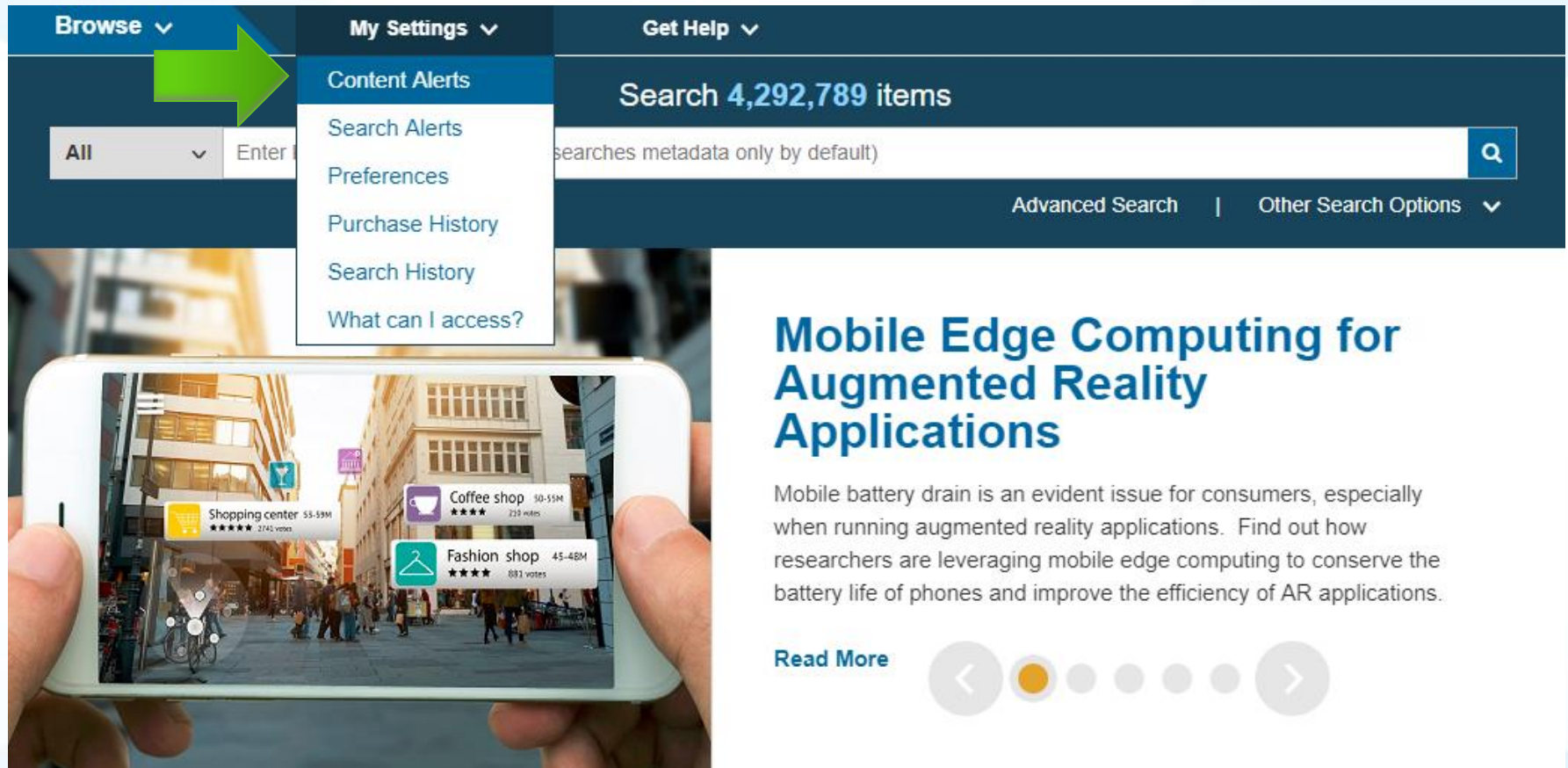
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Content Alerts



The image displays a website interface with a dark blue header. The header contains three main sections: 'Browse' with a dropdown arrow, 'My Settings' with a dropdown arrow, and 'Get Help' with a dropdown arrow. Below 'Browse', there is a green arrow pointing right, a search bar with the text 'All' and a dropdown arrow, and a search button with a magnifying glass icon. The search bar contains the text 'Search 4,292,789 items' and a smaller text 'searches metadata only by default)'. Below the search bar, there are two links: 'Advanced Search' and 'Other Search Options' with a dropdown arrow. A dropdown menu is open under 'My Settings', showing the following options: 'Content Alerts', 'Search Alerts', 'Preferences', 'Purchase History', 'Search History', and 'What can I access?'. Below the header, there is a large image of a smartphone held in a hand. The phone screen shows a street scene with several floating information cards. One card is for a 'Shopping center' with a rating of 5 stars and 2742 votes. Another card is for a 'Coffee shop' with a rating of 4 stars and 219 votes. A third card is for a 'Fashion shop' with a rating of 4 stars and 882 votes. To the right of the smartphone image, there is a section titled 'Mobile Edge Computing for Augmented Reality Applications'. Below the title, there is a paragraph of text: 'Mobile battery drain is an evident issue for consumers, especially when running augmented reality applications. Find out how researchers are leveraging mobile edge computing to conserve the battery life of phones and improve the efficiency of AR applications.' Below the paragraph, there is a 'Read More' link and a set of navigation buttons (left arrow, a yellow dot, and right arrow).

Content Alerts

- Search Alerts
- Preferences
- Purchase History
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- What can I access?

Mobile Edge Computing for Augmented Reality Applications

Mobile battery drain is an evident issue for consumers, especially when running augmented reality applications. Find out how researchers are leveraging mobile edge computing to conserve the battery life of phones and improve the efficiency of AR applications.

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All

Enter keywords or short phrases (searches metadata only by default)

Q

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IEEE Author Resources

Quality of IEEE Content

IEEE peer review: Process in which a journal article or conference paper is submitted by the prospective publisher to experts in the field for critical evaluation prior to publication, a standard procedure in scholarly publishing. Synonymous with refereed or juried review.

Key questions

- Is the science accurate?
- Does the paper make a unique contribution to the “body of knowledge?”

Assures credibility and authority of content

- Beyond news, trade sources and open web content

Most frequently cited content in technical literature and in patents

IEEE Journal or IEEE Conference?

Journal article: Fully developed presentation of your work

- Original research presented
- Clear conclusions are made and supported by the data

Conference article: Can be written while research is ongoing

- Can present preliminary results or highlight recent work
- Gain informal feedback to use in your research

Conference articles are typically shorter than journal articles, with less detail and fewer references

What IEEE editors and reviewers are looking for

- Content that is appropriate, in scope and level
- Clearly written original material that addresses a new and important problem
- Extension of previously published work (author **MUST** inform editor if submitting previously published work and how it differs)
- Valid methods and rationale
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject

Identify yourself with ORCID

ORCID is a unique, persistent identifier which helps authors:

- Ensure work is discoverable and connected to them throughout career (including moves and name changes)
- Minimize time spent entering repetitive information for manuscript submissions and grant applications
- Ensures proper attribution
- More info at orcid.org

IEEE requires ORCIDs for all corresponding authors (effective July 2016)

ORCID

How does the review process work?

- Editor-in-Chief (EIC) receives paper after it goes through content match check (iAuthenticate) and banned author check
- If the paper is in scope for the journal, it is assigned to an associate editor
- Associate editor assigns paper to five or more reviewers (reviewers can be suggested by authors)
- Reviewers send comments back to the associate editor
- Associate editor makes recommendation to the EIC as follows:
 - Accept
 - Revise & Resubmit
 - Reject
- The EIC makes final decision and informs the author

Why IEEE editors and reviewers reject papers

- Content is not a good fit for the publication
- Serious scientific flaws:
 - Inconclusive results or incorrect interpretation
 - Fraudulent research
- It is poorly written or quality is not good enough for journal
- The work does not address a big enough problem or advance the scientific field
- The work was previously published
- Work was submitted to multiple publications
- Reviewers have misunderstood the article

Refer to the IEEE guide on ethical publishing:

http://www.ieee.org/publications_standards/publications/authors/plagiarism_and_multiple_submissions.pdf

Type of Journals

- Traditional Journals
 - Users/libraries pay for access
- Open Access Journals
 - Author pays
 - Free download
 - Three options: Multidisciplinary mega journal, 100+ hybrid journals, fully Open Access topical journals
 - <http://open.ieee.org>
- Hybrid Journals
 - Most articles are traditional, some are open access (author preference)

Open Access: Emerging Trends

- EU preference is for Open Access: green or gold OA is acceptable
- Open Access deposit accounts gaining traction across EU to help students fund their work
- Authors can now add Funding Agency field to their published work
- Search by Funding Agency field in Advanced Search

Resources:

- IEEE Open site: <http://open.ieee.org>
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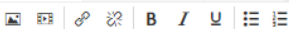
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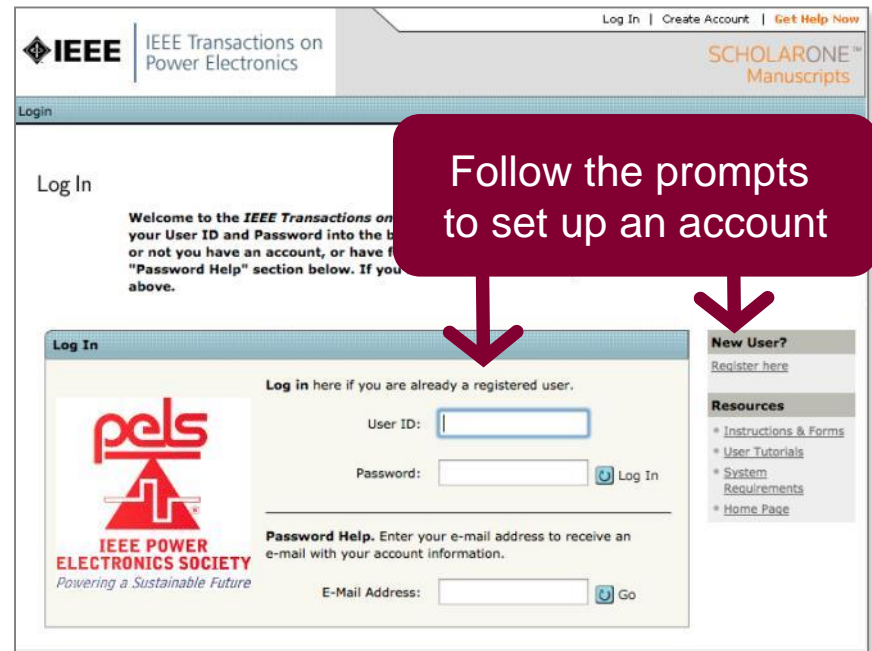
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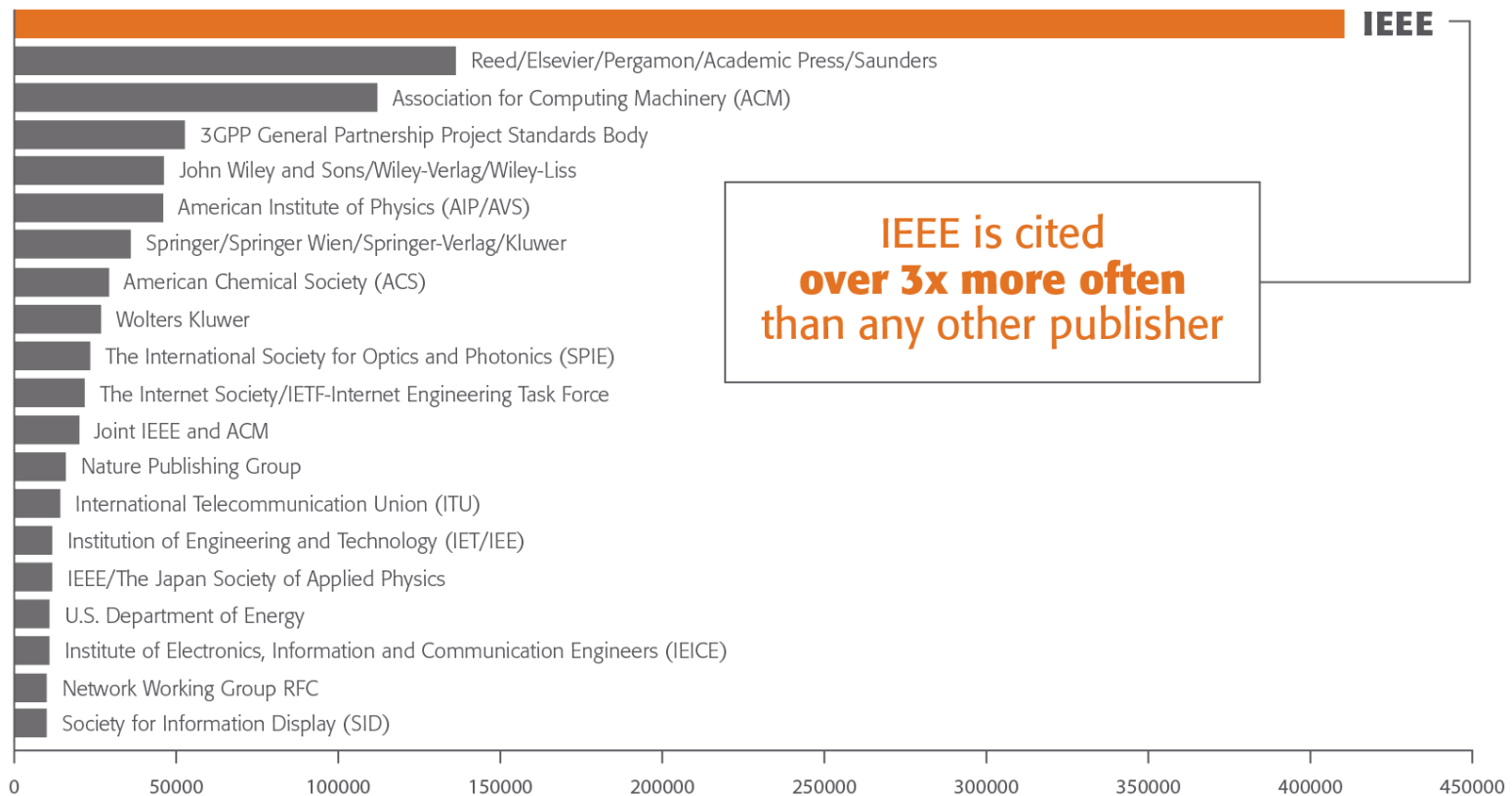
Agenda



- What is “prior art?”
- What is patentable & types of patents
- Objective of patent searching
- Patent claims and their relevancy to a search
- Search strategies in IEEE *Xplore*
- Image searching and other useful *Xplore* tools
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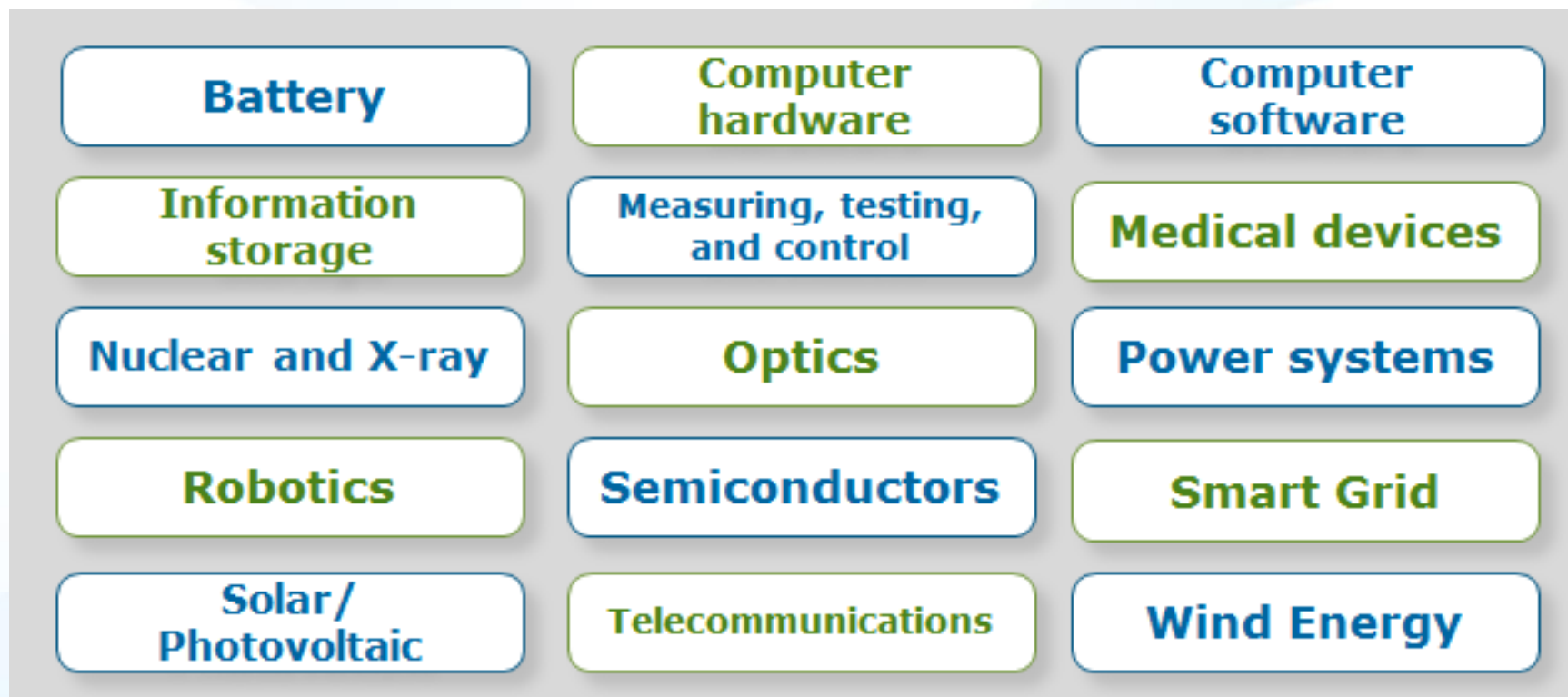
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What is “Prior Art?”



- Information publicly available which is relevant to a patent or patent application's claim of originality
- Must be published in print or electronically before the filing date of the patent application under review
- Encompasses technology that was known before and relevant to a patent's claims of originality
- Earlier filed and unpublished patent applications can qualify as prior art

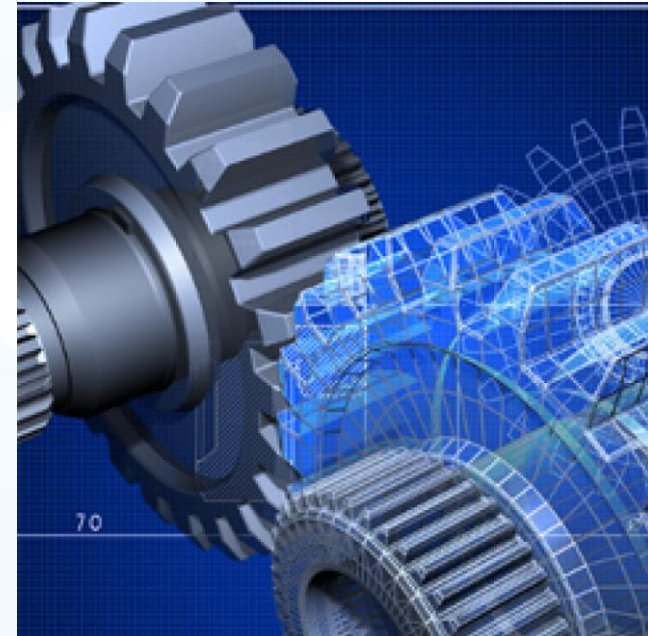
Examples of Prior Art



What is Patentable?

Criteria for an invention to be patentable:

- **Novelty:** must be new and unique
- **Utility:** capable for at least one industrial purpose
- **Non-obvious:** should have a technical advance or economic significance



What is Not Patentable?



- Inventions which are not new
- Inventions which are obvious variations of known technology
- Abstract ideas (no practical purpose or limit to a specific technology, a fundamental truth, original cause, or motive)

Three Types of Patents

- **Utility Patent:** Granted for a process or method, machine, manufactured article or composition or matter
- **Design Patent:** Granted for new, original or ornamental design for an article of manufacture. Appearance is protected.
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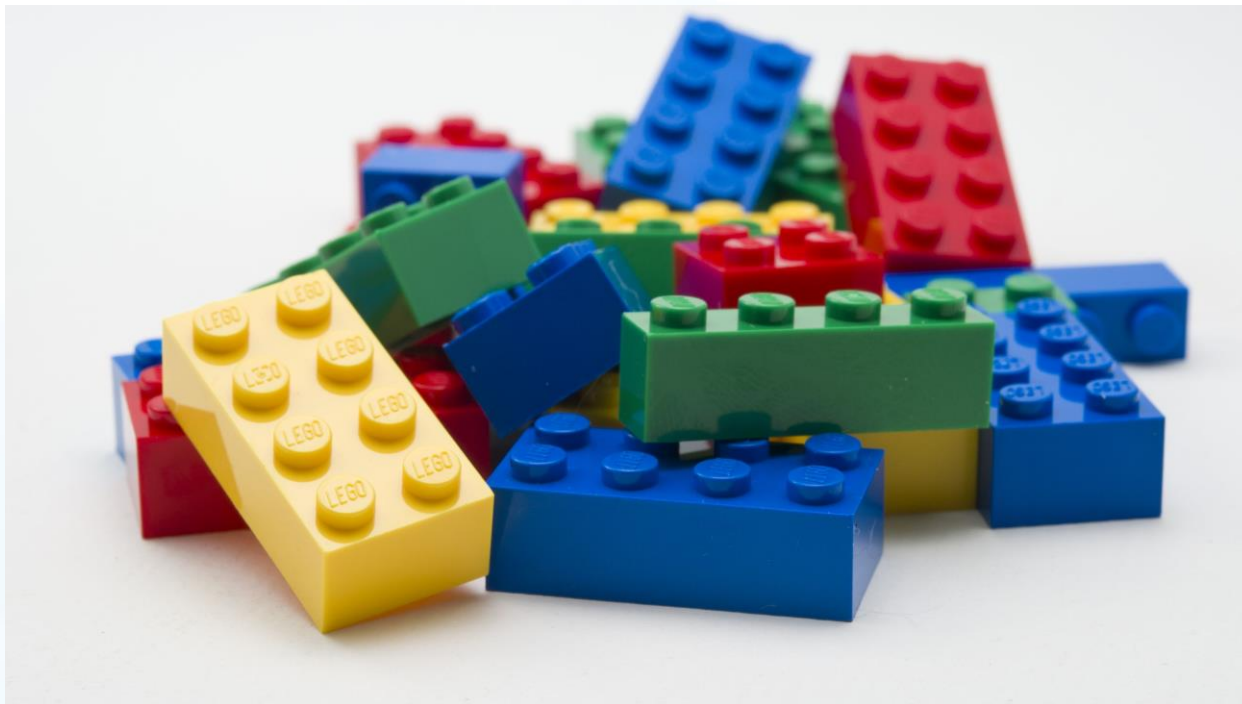
Reasoning For Prior Art Searching

- Ensure the idea is new
- Increase awareness of the product
- Prepare for legal consultation
- Reduce patent attorney and patent agent fees
- Prepare for the application process



Building a search strategy

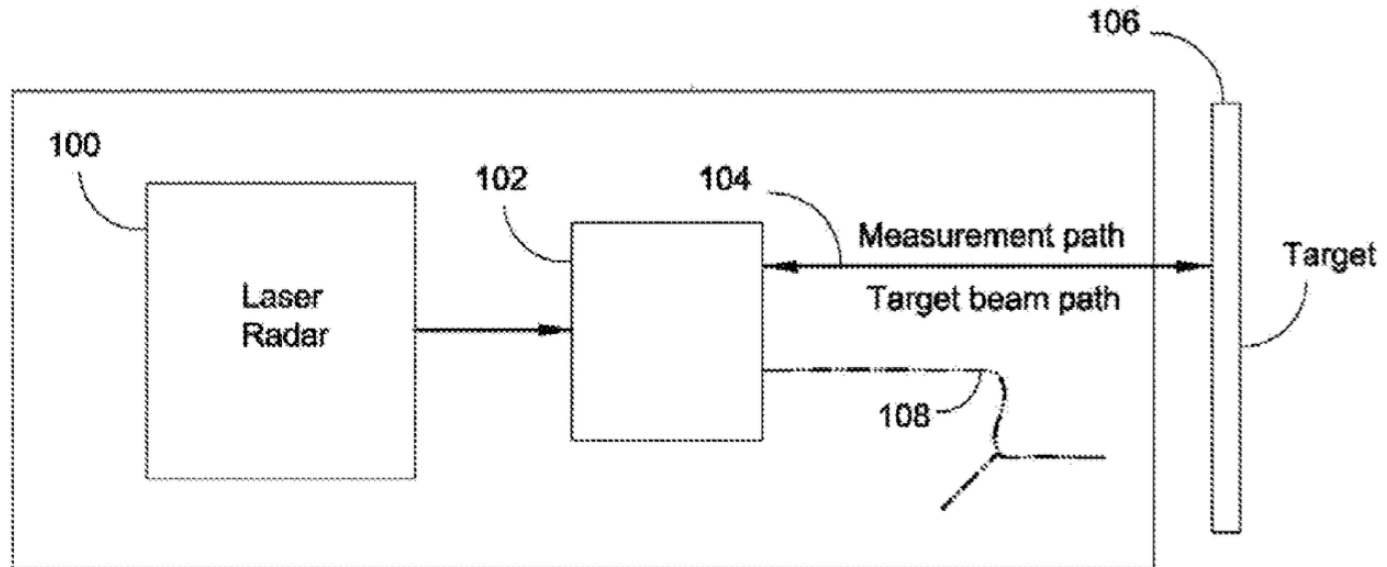
- Start broad, then narrow down with refining terms
- Seek key terms in abstract, claims and specifications
- Gather synonyms related to key terms



Example:

“Optical assembly for laser radar”

(US Application 20130194563)



Breaking it down...

- What is the invention?

Optical assembly for laser radar system

- What does it do?

Compact optical assembly that moves in tandem with a laser radar system. Eliminates need for large scanning mirror.

- How does it do it?

Assembly comprises a light source, a lens, a scanning reflector and a fixed reflector. Scanning reflector moves relative to light source, adjusting focus of the beam along the line of sight.

Where to find information in a patent or patent application

- Abstract
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings
- Detailed description of the invention
- Claims
- Specification

Patent Claims

- Claims define boundaries of legal protection conferred by a patent or the protection sought by a patent application
- Claim language defines an idea or invention as unique
- Two types of claims: independent and dependent
- Independent claims stand on their own
- Dependent claims are narrow in scope, relying on one or more claims for further measures towards novelty

Identifying key concepts of the invention

- Read through the abstract and claims to target key concepts
- Oftentimes the novelty of the invention will be found in the last sentence of the abstract
- Be mindful of the independent claims, as they can provide further clues regarding unique aspects of the invention

Target Key Concepts

(57)

ABSTRACT

A compact optical assembly for a **laser radar system** is provided, that is configured to move as a unit with a laser radar system as the laser radar system is pointed at a target and eliminates the need for a large scanning (pointing) mirror that is moveable relative to other parts of the laser radar. The **optical assembly** comprises a light source, a lens, a scanning reflector and a fixed reflector that are oriented relative to each other such that: (i) a beam from the light source is reflected by the **scanning reflector** to the **fixed reflector**; (ii) reflected light from the fixed reflector is reflected again by the scanning reflector and directed along A line of sight through the lens; and (iii) the scanning reflector is moveable relative to the source, the lens and the fixed reflector, to adjust the focus of the beam along the line of sight.

Create a list of synonyms

- Gather a list of synonyms related to key concepts
- Consider brand names, related standards or older terms
- Include alternate spellings of words
- Include acronyms and abbreviations
- Review the specification of the invention at the end of the patent application for explanations of technology employed in the invention
- Exclude terms that are only tangentially related

Example:

“Optical assembly for laser radar”

Optical
Optics
Ocular
Lens

Laser
Laser beam
Ray

Scanning
Check
Inspect
Examine
Screen

Reflector
Mirror
Glass

Search strategy

- Gather key concepts, differentiating between nouns, verbs and phrases
- Create concept map to visualize alternate search strings
- Match verbs with nouns. Verbs should be connected to or modify a noun so they are not searched alone
- Example: detect NEAR/5 image (searches detect within five words of image)
- Start broad and narrow down with refining terms
- Be mindful of the application's publication date. Set appropriate date limits for each search to make sure the prior art found predates the application.

Search strategy

- **EXAMPLE:** Optical assembly for laser radar
- **MAIN CONCEPT:** Radar
- **SECONDARY CONCEPT:** optical assembly, scanner, laser

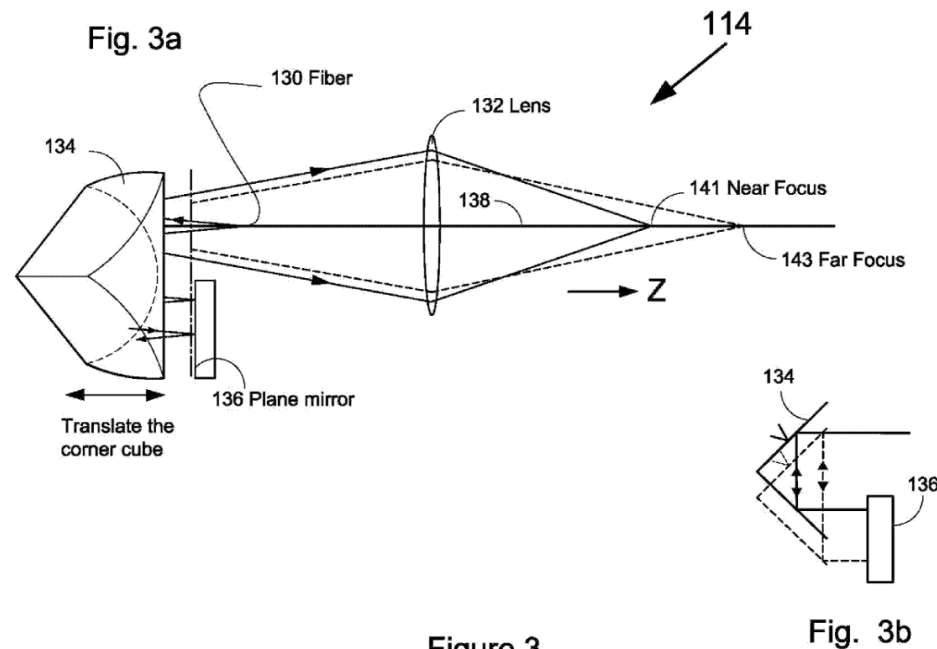


Figure 3

Fig. 3b

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IEEE Signal Processing Magazine

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The Internet of Things (IoT) shall be able to incorporate transparently and seamlessly a large number of different and heterogeneous end systems, while providing open access to selected subsets of data for the development of a plethora of digital services. Building a general architecture for the IoT is hence a very complex task, mainly because of the extremely large variety of devices, link layer technologies, and services that may be involved in such a system. In this paper, we focus specifically to an urban IoT system that, while still being quite a broad category, are characterized by their specific application domain. Urban IoTs, in fact, are designed to support the Smart City vision, which aims at exploiting the most advanced communication technologies to support added-value services for the administration of the city and for the citizens. This paper hence provides a comprehensive survey of the enabling technologies, protocols, and architecture for an urban IoT. Furthermore, the paper will present and discuss the technical solutions and best-practice guidelines adopted in the Padova Smart City project, a proof-of-concept deployment of an IoT island in the

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The fastening construction of the main mirror of a high lidar is presented in this paper. Lidar is light radar that consists of the light emission source and receiver of the reflected light signal. Lidar design is as done as follows. Optical axes of the receiver and light emission source don't change position relative to the motionless base because it is worthwhile to simplify the main mirror fastening construction. Three supports regulated on height are placed on the base. These supports are situated on tops of the equal sides of the triangle. Unloading is made on six points, each one of the support holds equal arm level. Balls are placed on the end of the levels in the slots. Small thickness ring with small rigidity is placed on the balls. A rubber laying downward to sideward is glued on the back side of the ring. While putting the mirror on the supports system, the leveling of the load from the mass on the backside of the mirror surface is also done. Radial fastening and unload make as followers: the cut ring is based on the mirror through rubbery laying of screws moved in pillar slots after mirror adjustment. The height of the crimped lock relative to the mirror face must provide radial mirror unloading. Suggested construction allows reducing labour content of manufacturing and assembly.

Published in: [Science and Technology](#), 2004. KORUS 2004. Proceedings. The 8th Russian-Korean International Symposium on

Date of Conference: 26 June-3 July 2004

INSPEC Accession Number: 8690532

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Abstract:

The construction and operation of two laser-based glasses-free 3D (autostereoscopic) displays that have been carried out within the European Union-funded projects MUTED and HELIUM3D is described in this paper. Both use a multi-user head tracker to direct regions viewer's referred to as exit pupils to viewer's eyes. MUTED employs a direct-view LCD whose backlight comprises novel steering optics and in HELIUM3D image information is supplied by a horizontally-scanned fast light valve whose output is controlled by a spatial light modulator (SLM). The principle of operation, construction and results obtained are described.

Published in: [Journal of Display Technology](#) (Volume: 6, Issue: 10, Oct. 2010)

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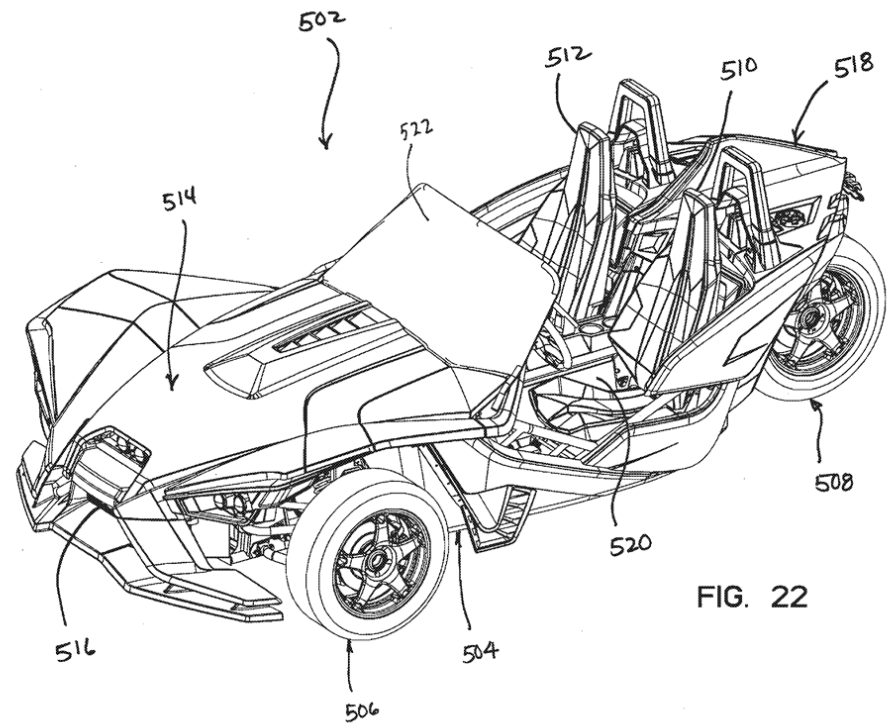


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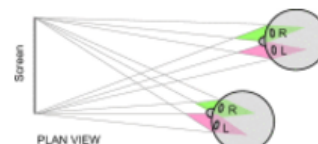


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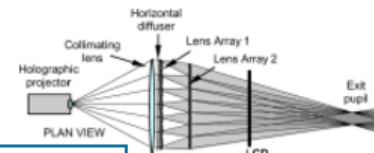
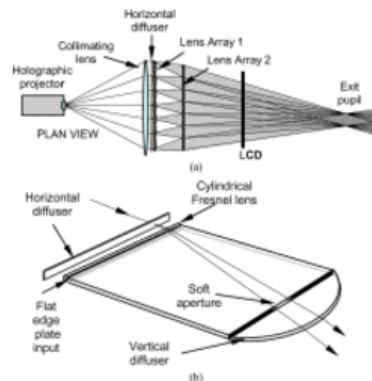
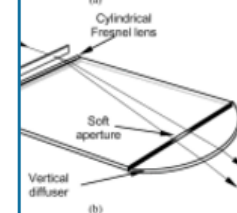


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David Alan Garren
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1. P. Benzie, J. Watson, R. Rakkolainen, K. Hoo, S. Sainov, C. von Kopy, "3D TV displays: Tec technologies", *IEEE Syst Video Technol.* pp. 1647-1658, Nov

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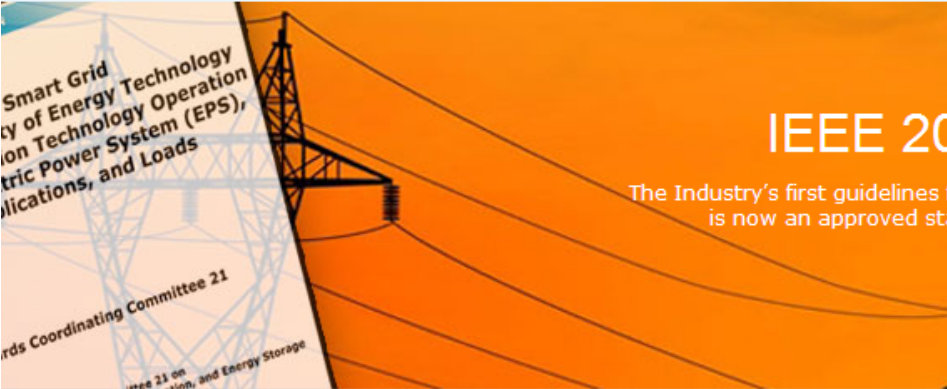
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