How to Write a Quality Technical Paper and Where to Publish within IEEE

USP y UNICAMP Brazil September 2015

Keynote Speaker, Prof. Jose Carlos Pedro
Full Professor
University of Aveiro, Portugal

Speakers
Judy Brady
IEEE Area Manager, Latin America

Michael Shapiro
IEEE Client Services Manager, Latin America

IEEE
Advancing Technology for Humanity

Topics and Speakers

IEEE Introduction and Background
Judy Brady
IEEE Area Manager, Latin America

How to Write a Quality Technical Paper and Where to Publish within IEEE
Keynote Speaker, Prof. Jose Carlos Pedro
Full Professor
University of Aveiro, Portugal

Next Steps: IEEE *Xplore*® and other author tools
Michael Shapiro
IEEE Client Services Manager, Latin America

IEEE Advancing Technology for Humanity

Thank you for being here today! Our agenda…

- IEEE Content, Mission & Milestones
- Innovation and Initiatives from IEEE
- Successful authorship w/ IEEE
- Using IEEE *Xplore* Effectively

IEEE is the world's largest professional membership association dedicated to advancing technological innovation and excellence for the benefit of humanity.

- ~430,000 members in 160 countries
- 39 Societies
- 5 Core Focus Areas
  - Publishing
  - Conferences
  - Standards
  - Membership
  - E- Learning

Mission statement:
The core purpose of the IEEE is to foster technological innovation and excellence for the benefit of humanity.

A mission that took a big step forward back in the year 2000…

What we do

- Publish the top-cited science and technology research in the field, most notably our journals, conferences and standards
  - Publish 170 journals, transactions, and magazines
  - Sponsor more than 1,300 annual conferences worldwide
  - Leading developer of nearly 1,500 industry standards in a broad range of technologies
  - More than 3.7 million documents in the IEEE *Xplore* Digital Library, with more than 8 million downloads each month
  - Over 400 IEEE educational online learning courses, plus IEEE English for Engineering
  - Publish technical books in all the fields served by IEEE
  - Many programs, projects and initiatives support this mission, including IEEE Author Workshops

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A milestone to celebrate!

In May 2000, the IEEE *Xplore* Digital Library was officially launched and would become one of the leading resources of scientific and technical information in the world. As we celebrate our 15th anniversary, we take a moment to thank our authors, members, volunteers and subscribers for making this milestone possible and reflect on how IEEE *Xplore* has evolved to support the needs of our users all over the world.

Advancing Technology for Humanity

Since May 2000…

IEEE *Xplore* by the Numbers

IEEE *Xplore* Content	2000	2015
Periodical titles	100	200+
Annual conference titles	350	1,400+
Papers published per year	77,000	225,000+
Author records	350,000	3,500,000+
Total documents	**533,000**	**3,650,000+**
Annual # downloaded	**11,000,000**	**100,000,000+**

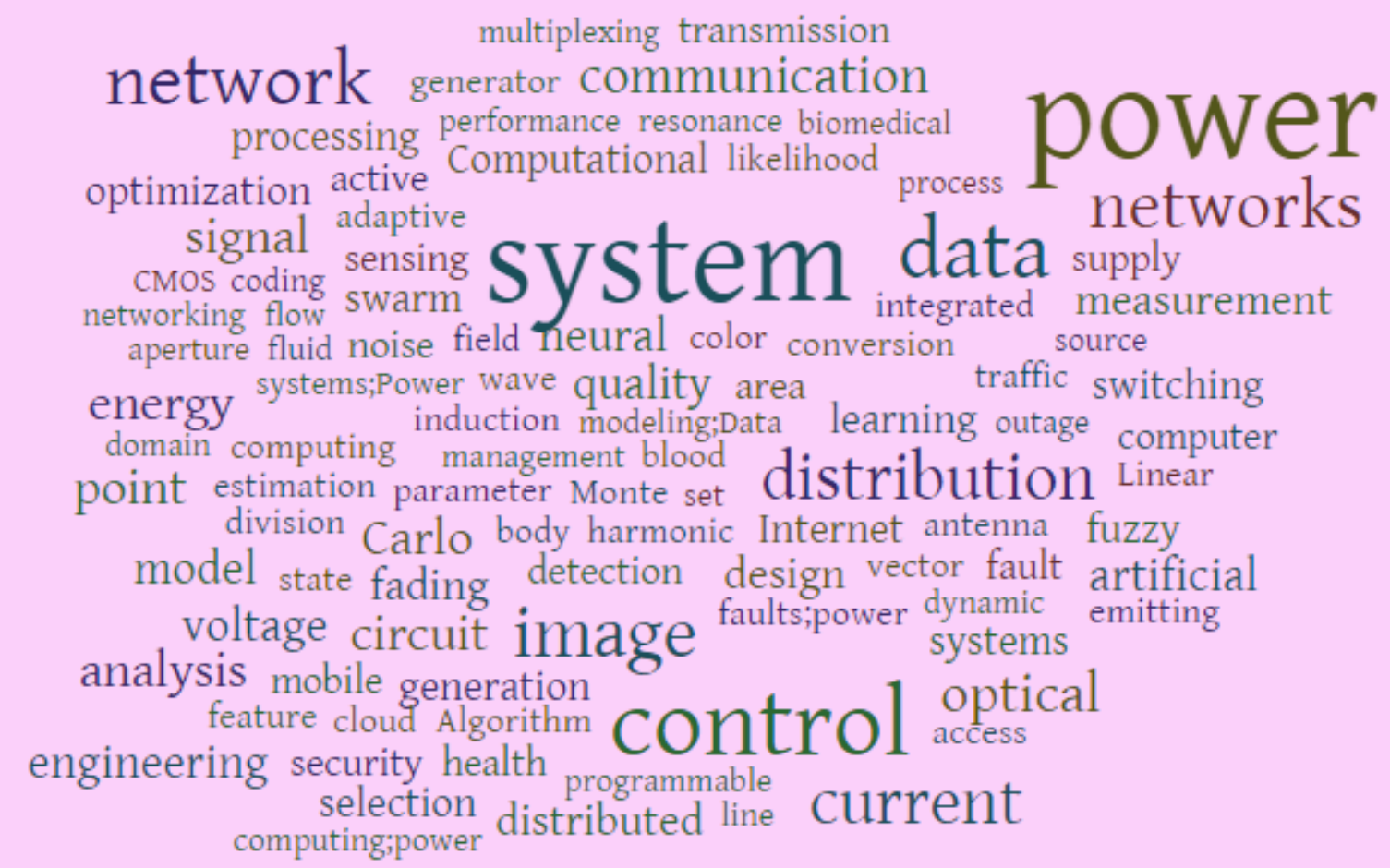
Top Search Terms in IEEE *Xplore*

- Cloud computing
- Image processing
- Data mining
- Big data
- Network security
- Wireless sensor networks
- Android
- Smart grid
- Power electronics
- Internet of things

Source: IEEE *Xplore* Internal Usage Stats, 2014

IEEE

Common keywords of 200 most recent Brazilian IEEE articles



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Brazil User Access Patterns

Most Highly Used Search Terms by universities in Brazil

- Smart Grid(s) – 1,190
- Big Data – 772
- Filter Bank – 722
- Arduino – 704 Arduino is an electronic prototyping platform allowing users to create interactive electronic objects
- Internet of things - 632
- Cloud Computing - 617

Source: Counter Reports

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Why we are here today

- Support the IEEE mission of advancing technology and dissemination of information
  - Enhance the ability of engineers, faculty, researchers, authors, and industry professionals to develop high quality scholarly research papers
  - Advance engineers and researchers' careers by helping them get published
  - Help authors share and disseminate critical information and emerging innovations with a global community
  - Help authors select the best outlet for their research by choosing the right quality journal in their field

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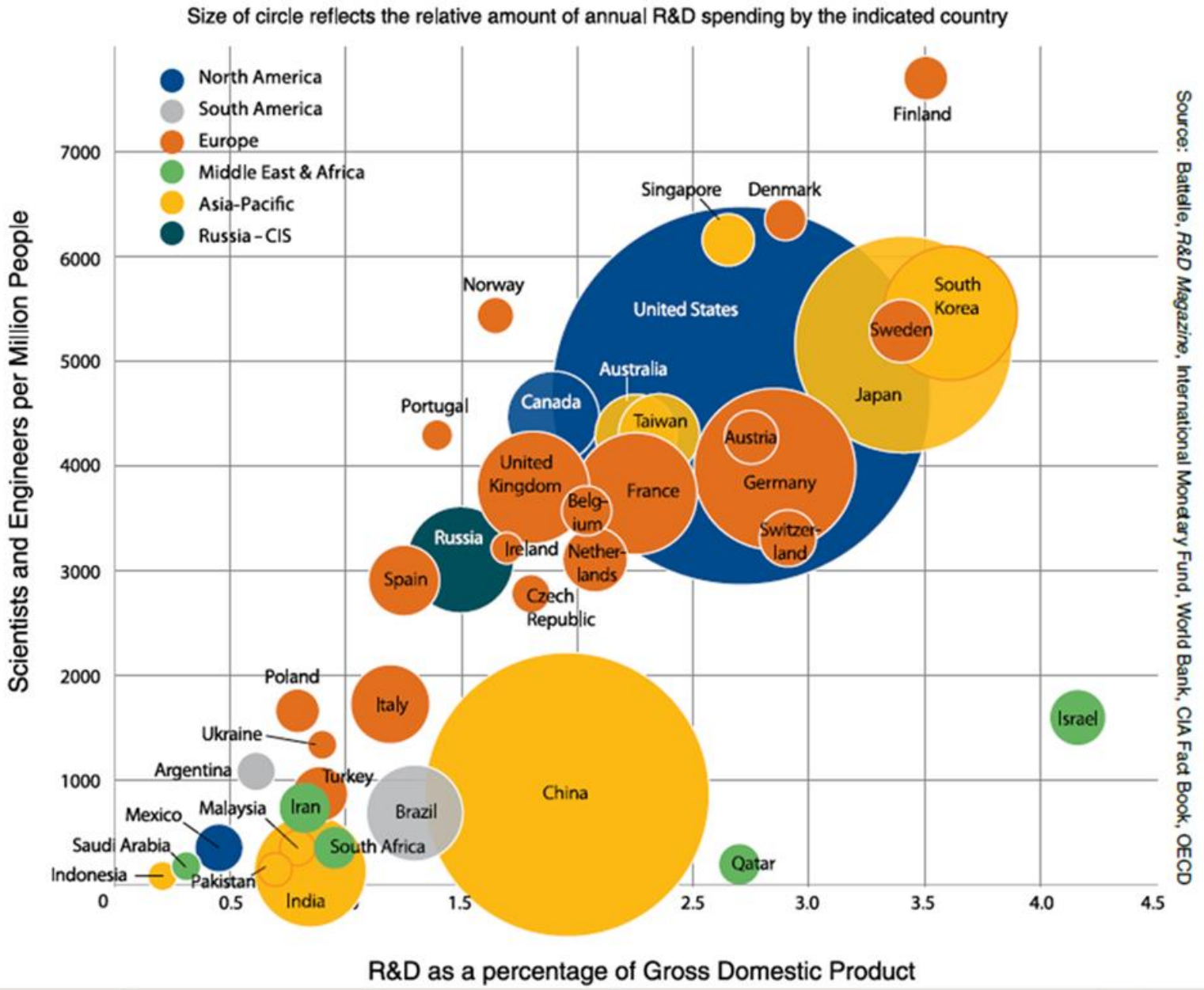
WORLD OF R&D 2013



	Peru	Mexico	Colombia	Brazil	Venezuela
Population	30.1 million	120.2 million	46 million	202.6 million	29 million
GDP*	US $210 billion	US $1.3 trillion	US $369 billion	US $2.24 trillion	US $368 billion
GDP per capita	US $11,100	US $17,700	US $11,100	US $15,200	US $13,600
GDP growth rate	5.1%	1.1%	4.2%	2.5%	1.6%

US: 2.7% R&D investment = 4% growth in GDP

*GDP (official exchange rate)
Note: all data is 2013 data per country as it compares to the world
US data: US Department of Commerce
"Why investing in R&D matters," 2012

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The world's most successful technology leaders & organizations rely on IEEE information

Technology Companies

- **30 out of top 32 Semiconductor Companies**
- **9 of the top 10 Aerospace Companies**
- **8 of top 10 Communications Equipment Companies**
- **7 out of top 10 Telecommunications Companies**
- **4 of top 5 Electronics Companies**
- **4 of top 5 Computer Hardware Companies**

(Forbes Global 2000 Rankings, 2015)

Universities

- **All of the top 100 engineering schools in US**
- **98 of the Top 100 Technical Universities Worldwide**

(US News and World Report 2014, Times Higher Education Top Technology Universities)

Government

- **Defense research and aerospace agencies**
- **Communications and energy labs**
- **Patent offices and scientific councils**
- **Government R&D centers in North America, Europe, Asia and the Middle East**

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IEEE quality makes an impact

IEEE Advancing Technology for Humanity

IEEE quality makes an impact

Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE publishes:

- **18 of the top 20** journals in Electrical and Electronic Engineering
- **18 of the top 20** journals in Telecommunications
- **8 of the top 10** journals in Computer Science, Hardware & Architecture
- **7 of the top 10** journals in Cybernetics
- **3 of the top 5** journals in Automation & Control Systems
- **3 of the top 5** journals in Artificial Intelligence
- **2 of the top 5** journals in Robotics

The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals.

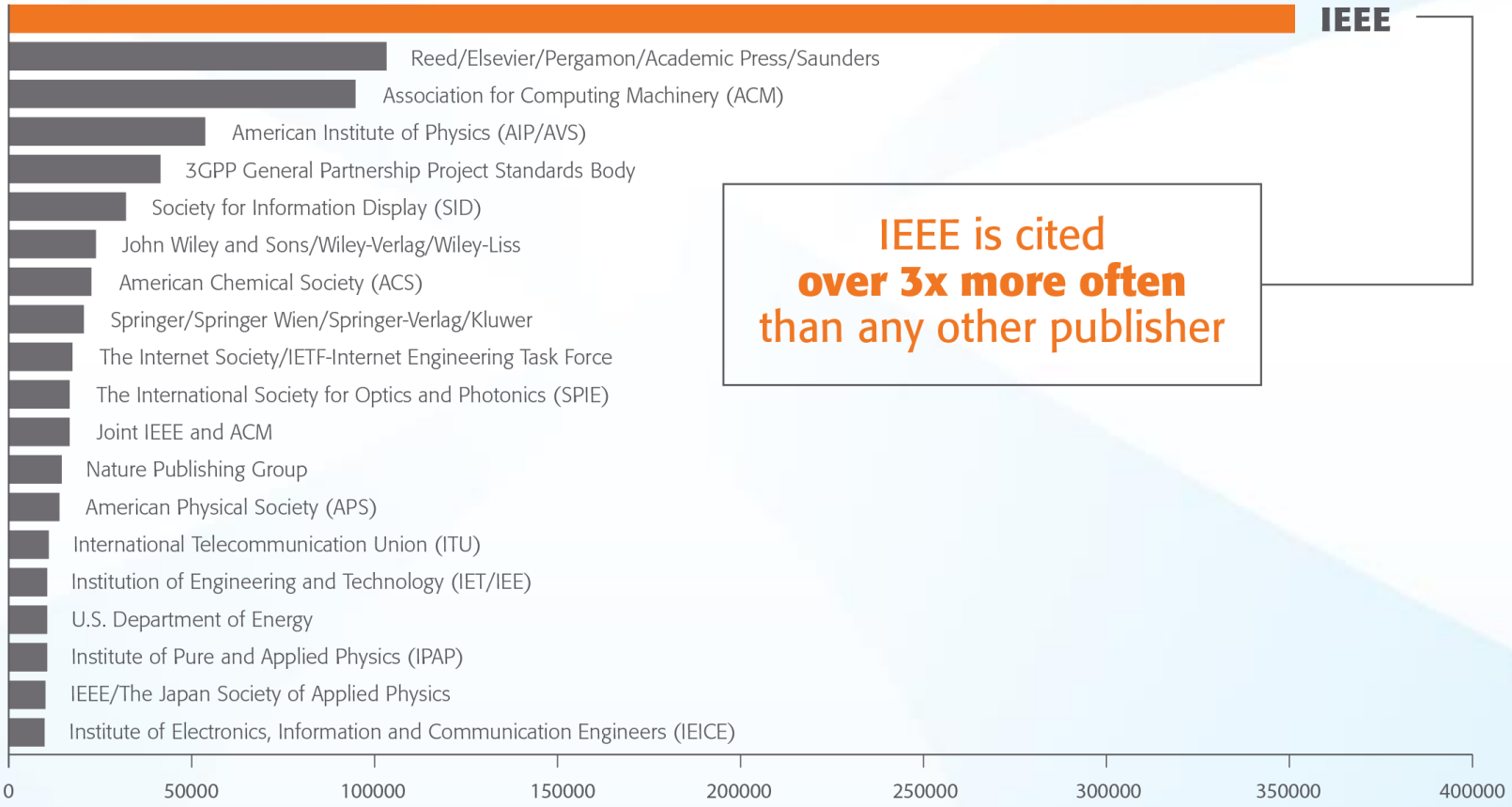
Based on the 2014 study released June 2015

More info: www.ieee.org/citations

IEEE

IEEE Leads US Patent Citations

Top 20 Publishers Referenced Most Frequently by Top 40 Patenting Organizations



Source: 1790 Analytics LLC 2015. Based on number of references to papers/standards/conferences from 1997-2014

IEEE

New IEEE Journals Coming in 2015

- *IEEE Trans. on **Big Data***
- *IEEE Trans. on **Transportation Electrification***
- *IEEE Trans. on **Cognitive Communications and Networking***
- *IEEE Trans. on **Computational Imaging***
- *IEEE Trans. on **Molecular, Biological, and Multi-Scale Communications***
- *IEEE Trans. **on Multi-Scale Computing Systems***
- *IEEE Trans. on **Signal and Information Processing over Networks***
- *IEEE **Systems, Man, and Cybernetics** Magazine*

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New IEEE Journals Coming in 2016

In 2016, IEEE will introduce four new journals that will be available for subscription:

- *IEEE Transactions on* ***Intelligent Vehicles***
- *IEEE Journal on* ***Multiscale and Multiphysics Computational Techniques***
- *IEEE* ***Robotics and Automation Letters***
- *IEEE Transactions on* ***Sustainable Computing***

All included in an IEL subscription

For a complete title listing, to go: http://ieeexplore.ieee.org/xpl/opacjrn.jsp

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Building Partnerships

- Goal for IEEE *Xplore* to become the technology destination of choice worldwide
- Need to enable users to find other high quality content to help fulfill their needs
- IET and IEEE: partners since 1988
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- IEEE *Xplore* now hosts select content from other leading society publishers:
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- Courses are **peer-reviewed**, updated and developed by experts.
  - Courses range from 1-3 hours in length
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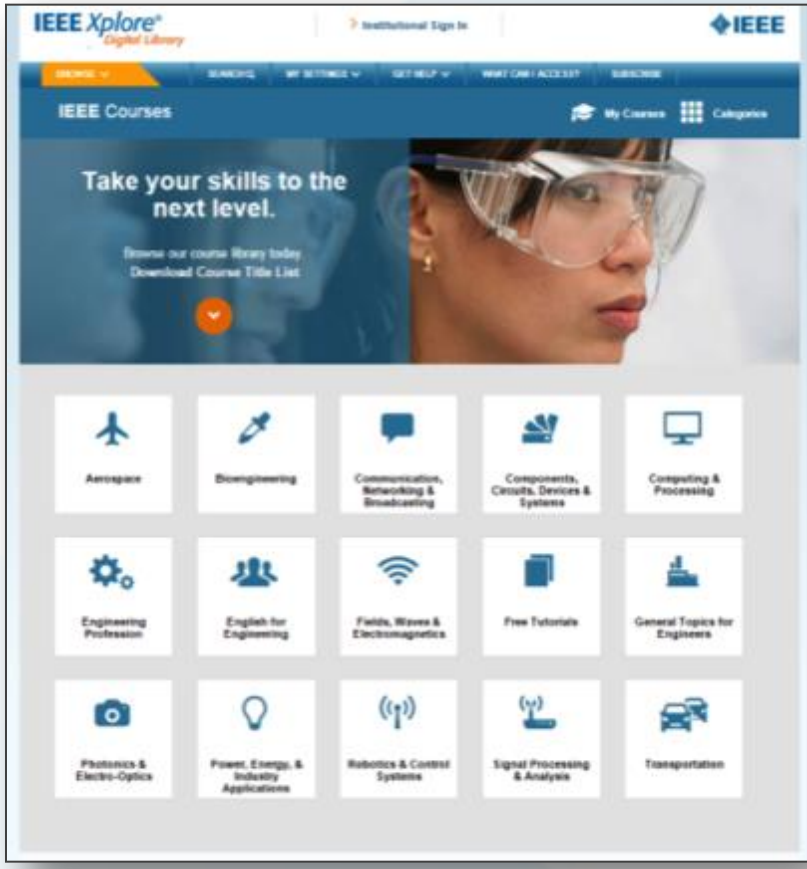

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- ❑ Cloud Security and Data Protection
- ❑ Cloud Construction
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- ❑ Cloud Infrastructure as a Service Architecture
- ❑ Cloud Benefits and Challenges
- ❑ Cloud PaaS Services Design with Microsoft Azure
- ❑ Cloud Standardization and Component Tech Overview
- ❑ Cloud Data Center Network Construction
- ❑ Cloud IaaS Storage Management

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- ❑Career Networking for Technical Professionals
- ❑Communication & Presentation Skills for Technical Professionals
- ❑Engineering Ethics – Building a Strong Foundation
- ❑Fundamentals of Metrology & Measurement
- ❑Fundamentals of Patent Protection for Engineers
- ❑Motivation in the College Classroom
- ❑Technical Writing for Scientists and Engineers
- ❑Developing Career Goals for Technical Professionals
- ❑How to be a Prolific Inventor

Transportation

9 courses in all

- ❑Transportation Electrification: Appl. of Electric Drive Trains
- ❑Transportation Electrification: Electric Machines in Electric Drive Trains
- ❑Transportation Electrification: Intro. to Power Electronics in Electric Drive Trains
- ❑Transportation Electrification: Power Semiconductors Used in Electric Drive Trains
- ❑Introduction to Batteries
- ❑Battery Design Principles
- ❑Lithium-ion Batteries
- ❑Modeling Lithium-ion Batteries
- ❑Next Generation Batteries

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IEEE English for Engineering

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FREE Courses for Universities in 2015

CAPES Most Highly Used Search Terms:
- Smart Grid(s)
- Big Data
- Filter Bank
- Arduino
- Internet of things
- Cloud Computing

Free Courses:

IEEE has made five courses available for free until 31 Dec 2015.

1. **Cloud Based Solutions for Big Data**: http://ieeexplore.ieee.org/courses/details/EDP405
2. **Cloud Computing Enabling Technologies**: http://ieeexplore.ieee.org/courses/details/EDP384
3. **4G Broadband LTE**: http:// ieeexplore.ieee.org/courses/details/EDP378
4. **Transportation Electrification: Applications of Electric Drive Trains**: http:// ieeexplore.ieee.org/courses/details/EDP370
5. **Smart Grid: From Concept to Reality**: http:// ieeexplore.ieee.org/courses/details/EDP212

Demo Webinars (June 2015)

By George Plosker
Recording Available:
https://ieee.webex.com/ieee/ldr.php?RCID=39a43faa94f5f000e4643657b050509

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Maximize Discoverability with IEEE

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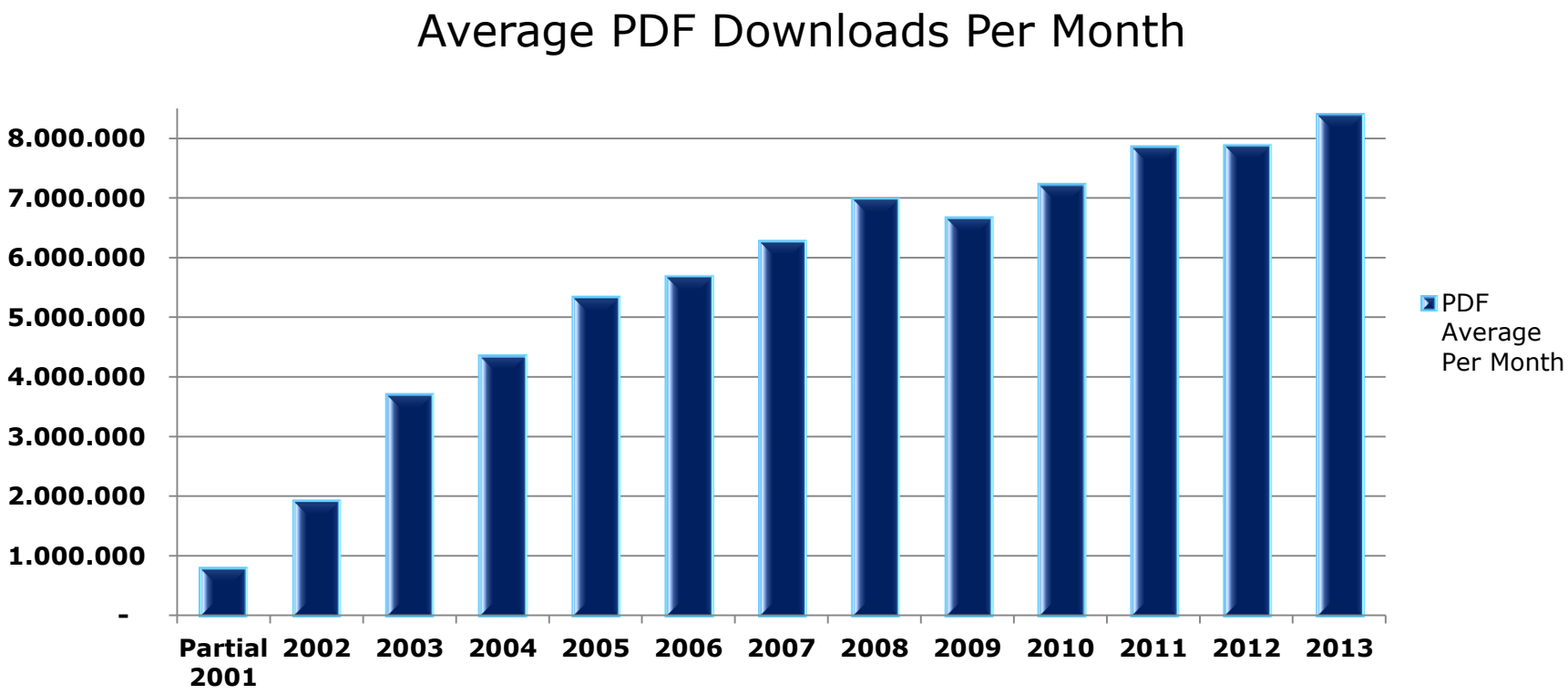

Source: IEEE *Xplore* Internal Usage Stats

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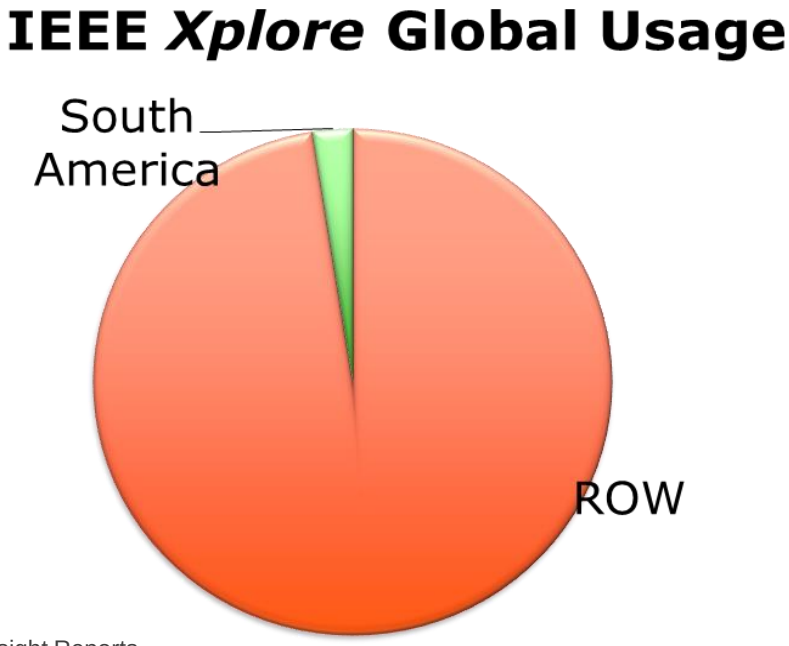
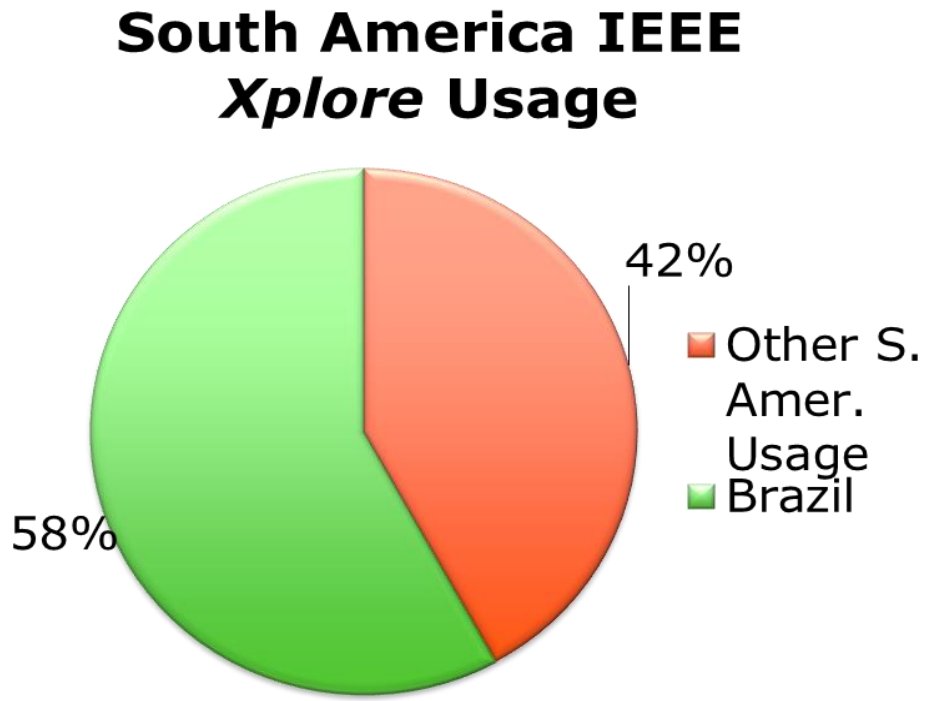
Global IEEE *Xplore* Usage

- 2014 Global IEEE *Xplore* Usage
  - Total Usage in 2014 – 103,843,467
    - South America – 2,614,174
    - Brazil – 1,517,074





Source: NetInsight Reports

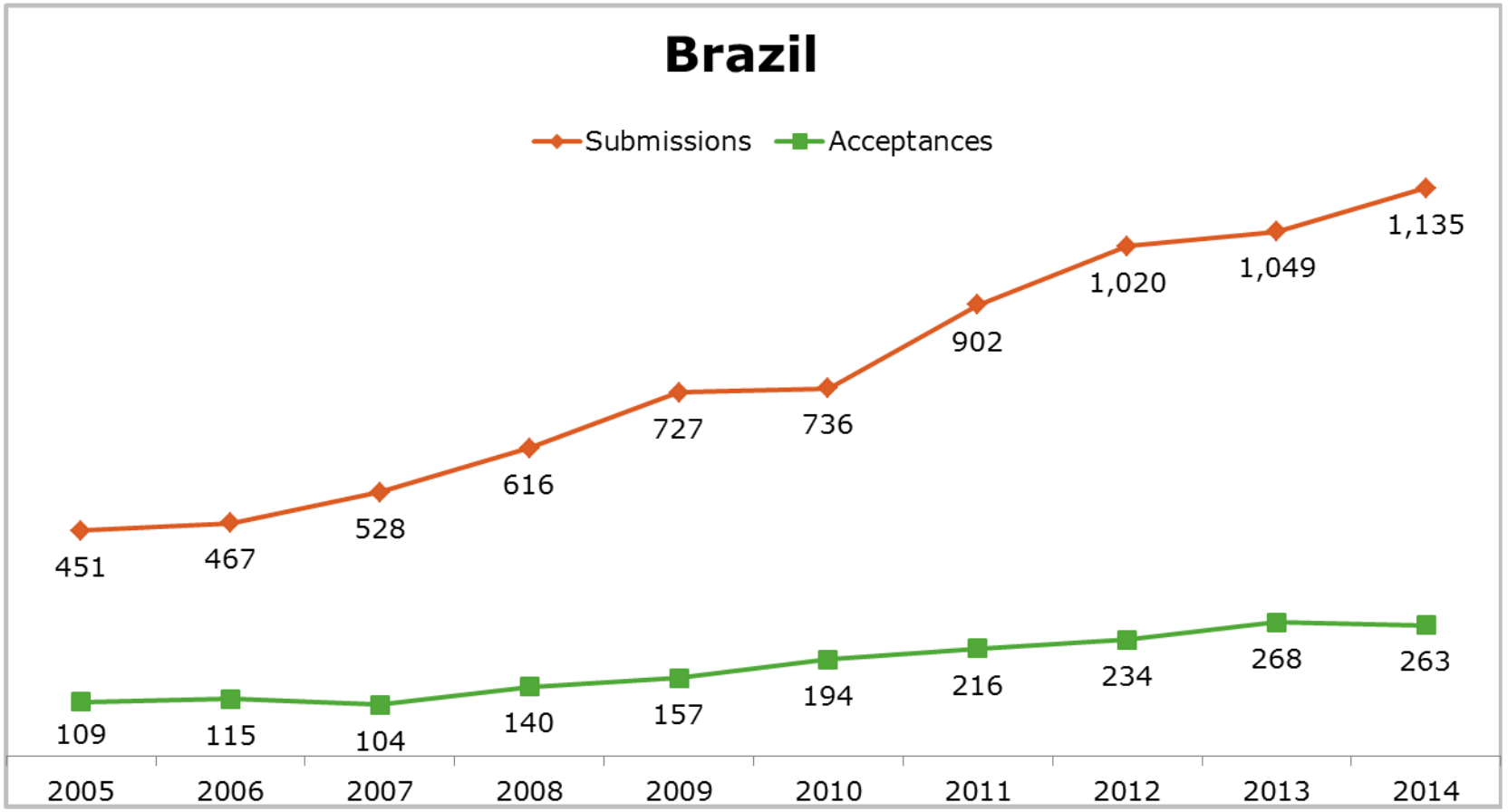
IEEE Advancing Technology for Humanity

	Brasil	Mexico	España	Argentina	Colombia
Number of articles in IEEE X*plore:* 2004	10,617 articles in IEEE *Xplore*	3,129 articles in IEEE *Xplore*	15,099 articles in IEEE *Xplore*	1,016 articles in IEEE *Xplore*	174 articles in IEEE *Xplore*
Number of articles in IEEE X*plore:* 2014	26,997 articles in IEEE *Xplore*	9,654 articles in IEEE *Xplore*	41,212 articles in IEEE *Xplore*	2,668 articles in IEEE *Xplore*	2,449 articles in IEEE *Xplore*

27,999 Brazilian articles published as of August 24, 2015.

IEEE Advancing Technology for Humanity

IEEE Journal Submissions and Acceptances from Brazil Authors (2005-2014)*



* Data as of Dec. 31 2014

IEEE Advancing Technology for Humanity

2013/2014 First Prize Presidents Change the World Competition Low-Cost Spi

- The Low-Cost Spirometer is a project aimed to address the rising cost of chronic respiratory diseases worldwide.
- Problem: Even in developed countries, spirometers historically have been relegated to pulmonologists and hospitals due to high cost and tedious maintenance.
- Solution: The low cost Spirometer drastically reduces cost while maintaining accuracy. Through seamless integration with mobile devices, this solution bridges the gap between a medical device and a consumer product.
  - https://ieeetv.ieee.org/player/html/viewer?dl=#2013-ieee-presidents-change-the-world-competition-winners

UFRGS
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Andrew Brimer and Abigail Cohen, accepting $10,000 First Prize from 2013 IEEE President-Elect(left) and 2013 IEEE President Peter Staecker

IEEE

IEEE Compe

Rank	Team Name	University	Region	Country
1	viRUs	Reykjavik University	8	Iceland
2	WhySoConcrete	New York Univ	1	USA
3	oops	University of Moratuwa -Sri Lanka	10	Sri Lanka
4	SYSUillidan	Sun Yat-Sen University-Guangzhou	10	China
5	FZL	Sun Yat-Sen University-Guangzhou	10	China
6	OnionJAM	Ecole Polytechnique Federale de Lausanne (EPFL)	8	Switzerland
7	UPPG	Univ Of The Philippines-Diliman	10	Philippines
8	Powerhouse	Politehnica Univ Of Bucharest	8	Romania
9	SKT1	Univ Nacional de Ingenieria	9	Peru
10	kwjIGo6KQFrCgEpf4O7g	University Of Southampton	8	United Kingdom
11	NowWith3	University of Sao Paulo	9	Brazil
12	FortyTwoASU	Ain Shams Univ	8	Egypt
13	Single	McGill Univ	7	Canada
14	FooBarBaz	Ecole Polytechnique Federale de Lausanne (EPFL)	8	Switzerland
15	Ewoks	University of Moratuwa -Sri Lanka	10	Sri Lanka
16	Dongskar	Institut Teknologi Bandung	10	Indonesia

Keynote Speaker,

Jose Carlos Pedro, Ph.D.
Professor and Senior Researcher
Instituto de Telecomunicaçoes – Universidade de Aveiro

Education

Ph.D., Electrical Engineering, Universidade de Aveiro, 1993
Lic. Eng, Electrical Engineering, Universidade de Aveiro, Aveiro, 1985

IEEE Publications Activities

- IEEE Student Member since 1990, Member 1995, Senior Member 1999, Fellow 2007
- Associate Editor, IEEEE Transactions on Microwave Theory and Techniques, 2010-2014
- Guest Editor, IEEE Microwave Magazine, Aug. 2010 and Sep./Oct. 2014
- General Chair, Integrated Nonlinear Microwave and Millimeter Wave Workshop, Aveiro 2006
- TPC Chair, IEEE EuroCon-2011 Conference, Lisbon, 2011,
- IEEE Distinguished Microwave Lecturer, 2014-2016

University Management Activities

- Coordinator of the Electrical Engineering Scientific Council, Universidade de Aveiro, 1994/1995
- Electrical Engineering Department Head, Universidade de Aveiro, 2007-2011

How to Write a Quality Technical Paper and Where to Publish within IEEE

1. Introduction
2. Scientific Knowledge
3. Where to Publish within IEEE
4. Structure of a High-Quality Paper
5. The Peer Review Process

How to Write a Quality Technical Paper and Where to Publish within IEEE

1. Introduction

2. Scientific Knowledge

3. Where to Publish within IEEE

4. Structure of a High-Quality Paper

5. The Peer Review Process

Motivation

The objective of a **Scientific Publication** is to disseminate **Scientific Knowledge**.

The **Review Process** is the method that scientists use to grant a certain information the right to be published as scientific knowledge.

The **Review Process** has thus this immense responsibility of attributing to an information the label of

Science

Motivation

So, we can only understand the Publications business and the **Peer Review Process** if we know what is the **Scientific Knowledge** and how it is disseminated via a **Scientific Publication**!

How to Write a Quality Technical Paper and Where to Publish within IEEE

1. Introduction

2. **Scientific Knowledge**

3. Where to Publish within IEEE

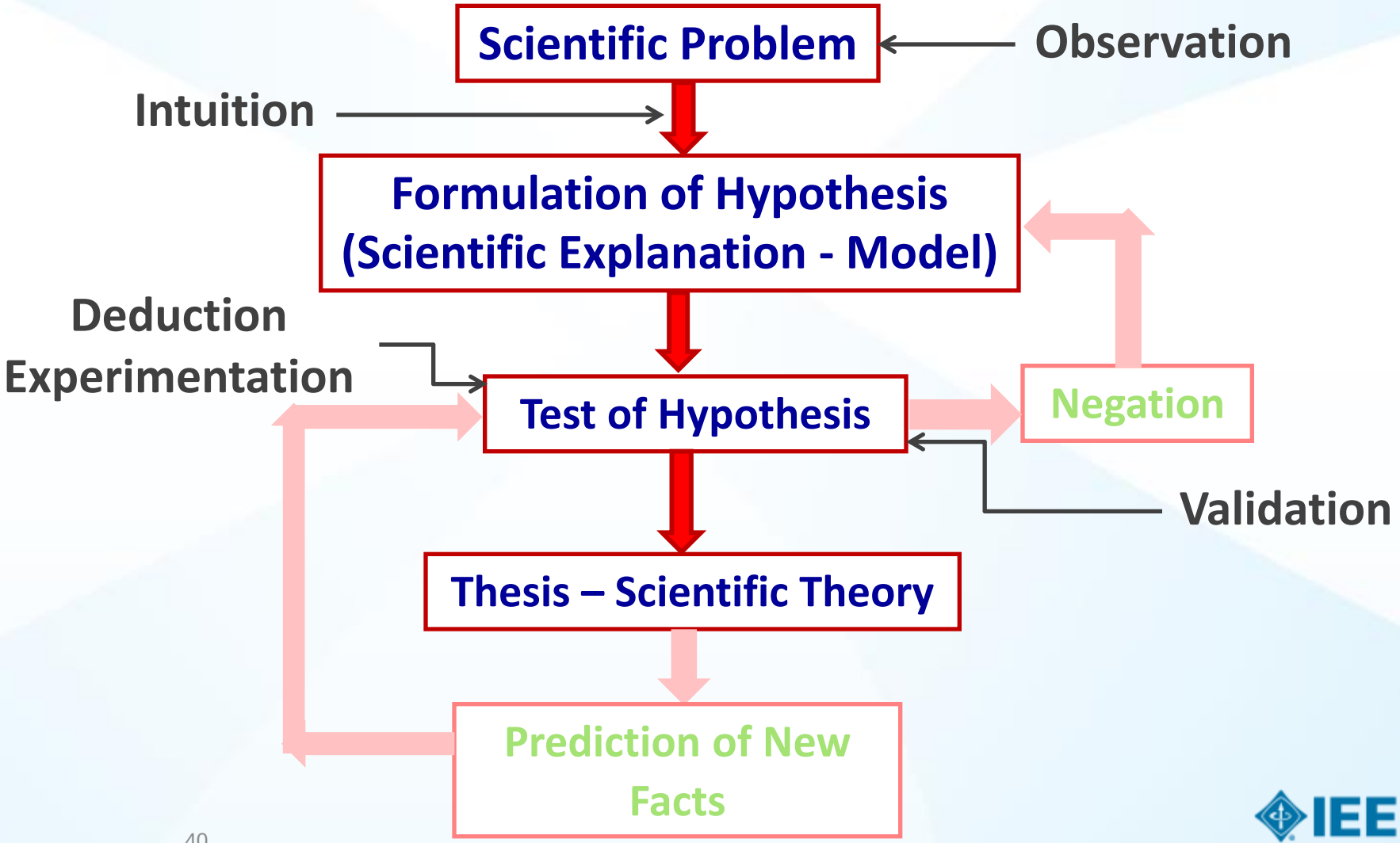
4. Structure of a High-Quality Paper

5. The Peer Review Process

What is Scientific Knowledge ?

Main Features of the Scientific Knowledge
Not superficial but **Elaborated**
Not subjective, but **Objective**
Not uncritical, but **Rational**
Not disorganized, but **Systematic**
Not absolute but **Approximate**, **Inexact** and **Fallible**
But mostly, and above all, **Verifiable** !

The Scientific Method



How to Write a Quality Technical Paper and Where to Publish within IEEE

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4. Structure of a High-Quality Paper
5. The Peer Review Process

Scientific Publication

A ***Scientific Article***, or ***Paper***, is the most often used **vehicle to disclose a scientific/technical innovation** (a new idea, concept, theory, explanation, analytical tool, device, instrument, etc.), submitting it to the objective criticism of the other researchers.

Objective: To make public a certain scientific knowledge, so that other researchers can trust it, use it and give the authors credit for its creation.

Scientific Publication

Big pressure to publish (**publish-or-perish** rule),

- ➔ Many more submissions that are not the corollary of a well conducted scientific research, or of a worth to publish (new) idea, but simply the result of that need to publish more and more.

- ➔ One of the present's main threats to science!

- ➔ Major cause of rejected papers.

Scientific Publication

Three ways to disclose scientific/technical knowledge:

Conference Presentations

Journal Papers

Magazine Articles/Technical Books

Conference Presentations: intended to disclose preliminary scientific results before a live audience, and so to promote technical discussions between researchers.

... reviewed for the novelty of their idea (as they serve to grant the authorship) and the adequacy of the topic to be presented in a short (20 minutes) presentation.

Scientific Publication

Three ways to disclose scientific/technical knowledge:

Conference Presentations

Journal Papers

Magazine Articles/Technical Books

Journal Papers: main vehicle of disseminating new scientific knowledge. They are carefully reviewed, more detailed, accurate and are thus preferred by the scientific community.

… deep revision for significance, rigor, accuracy and validation, as they constitute the main vehicle to define a statement as "scientific".

Scientific Publication

Three ways to disclose scientific/technical knowledge:

Conference Presentations

Journal Papers

Magazine Articles/Technical Books

Magazine Articles/Books: (nowadays), devoted to works that review a particular topic or that present material of digested and tutorial (not necessarily new) nature.

… review is mostly focused on the relevance of the covered topics, the quality of used language, organization and clarity of the exposition, and their tutorial value.

Where to Publish within IEEE

The IEEE offers a wide selection of books, journals, magazines and technically sponsored conferences, covering all electrical engineering fields (see the publications of the **IEEE Society(s)** that address your research topic).

These are often considered the most reputed journals and conferences in their fields. For example, in IEEE MTT-S:

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- Wednesday 9th September: 9:30 – 17.30
- Thursday 10th September: 9:30 – 16.30

IEEE Press Book Series

IEEE

Where to Publish within IEEE

Journal reputation is measured by the **Impact Factor**, e.g., JCR,

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Where to Publish within IEEE

Journal reputation is measured by the **Impact Factor**, e.g., JCR, but also:

- by how is the journal or conference is regarded by the scientific community,
- by the quality of its editorial board (editors and reviewers),
- by the number of downloads it gets, e.g., from IEEE Xplore
- by patent citations,
- Etc…

Where to Publish within IEEE

Nowadays, IEEE offers 3 different publication models:

1 – **Traditional Journals**
Reader (or his institution's library) pays a journal subscription or pays for a particular paper.

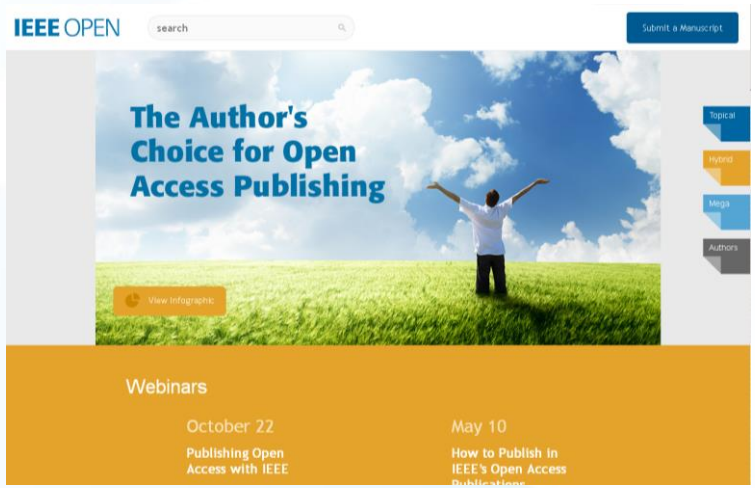
2 – **Open-Access Journals**
The authors pay the publication so that the paper can be downloaded for free.

3 – **Hybrid Journals**
The author is asked to opt for one of the previous models.

Where to Publish within IEEE

IEEE provides 3 Open Access model opportunities for its authors:

New multidisciplinary mega journal: http://www.ieee.org/publications_standards/publications/ieee_access/index.html



See: http://open.ieee.org/

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Fully open access topical journals

How to Write a Quality Technical Paper and Where to Publish within IEEE

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4. **Structure of a High-Quality Paper**
5. The Peer Review Process

Standard Organization of a Scientific Paper

Paper Title:

The Title of the Paper is its first, and most important, **identifier**.

It should be, thus, properly selected so that it tells the reader what the paper is about.

However, it must be also concise, not only to be manageable as a short identifier, as there are even publications' media that limit its length.

Standard Organization of a Scientific Paper

Abstract:

The Abstract should be a **brief summary** of the work described, emphasizing what are the **contributions to the state-of-the-art**.

Most of the times, it is the only fragment of the paper (beyond the Title) that is publicly and easily available for free.

It should be written in a **clear and so concise** way that another researcher should have all the information needed to decide whether or not he should read the complete paper.

Standard Organization of a Scientific Paper

Index Terms/Keywords:

Index Terms or **Keywords** serve to organize information by topics in electronic databases, such as the IEEE *Xplore* Digital Library, which then eases automatic searches.

A list of keywords or phrases in alphabetical order, separated by commas, should be inserted after the Abstract for most of IEEE Transactions' journals.

An updated list of IEEE suggested keywords can be found at http://www.ieee.org/documents/taxonomy_v101.pdf or obtained if a blank e-mail is sent to keywords@ieee.org.

Standard Organization of a Scientific Paper

Introduction:

The Introduction should serve several purposes:

1 – Identify the **object of the work**, i.e., the concrete **scientific problem** to be solved.

2 – Describe the **state-of-the-art**, clearly referring the previous approaches adopted to solve the problem and what was left (and thus has) to be done.

A critical assessment of the state-of-the-art gives credit to the previous contributions in the field. This is checked for possible ignorance or deliberate intention to hide the lack of originality of the contribution, or even a potential **plagiarism** or **self-plagiarism**.

Standard Organization of a Scientific Paper

Introduction:

To prevent being accused of plagiarism or self-plagiarism, the author should submit work that:

- has not appeared elsewhere for publication
- is not under review for another refereed publication
- shows how it differs from the previously published work

Authors must inform the editor when submitting any previously published, or under review, work (see the **IEEE Code of Ethics**).

Both plagiarism and self-plagiarism are regarded as highly **unethical** by the scientific community!

Standard Organization of a Scientific Paper

Introduction:

The Introduction should serve several purposes:

3 – Briefly, but clearly, state **in which way** the present work contributes to **advance the state-of-the-art**, or to bridge some of its gaps.

4 – Sometimes, the Introduction is also used to give a **brief description of how the body of the paper is organized**.

But this, by no means, should repeat material present in the subsequent sections of the article, but simply guide the reader through the remainder of the text.

Standard Organization of a Scientific Paper

Paper Body:

Should tell the rationale underlying the proposed idea.

Should be **organized in Sections**, and **Sub-Sections** if needed to guarantee an interesting, clear and easy to follow text .

Should dedicate a section for **clearly explaining the hypothesis** that is proposed, its underlying approximations or assumptions, and thus clearly state its validity range.

Should have another section, or sections, for identifying the **materials and methods** used in the experiments, to present and **carefully discuss the results**, and, from these, **validate or refute the advanced hypothesis**.

Standard Organization of a Scientific Paper

Paper Body:

Figures and Tables constitute a very effective means to disclose scientific information in a concise and precise way.

However, Figures and Tables cannot stand by themselves. Their content should be discussed, or, at least, briefly described, in the text body, and a **caption or legend** should be included for each of them.

Each Figure and Table should have a **label** (usually a set of numbers that are attributed in a consecutive way, according to the order the figures or tables appear, and are referred to, in the text) that will allow its reference in an easy way.

Standard Organization of a Scientific Paper

Paper Body:

Should be **written in a sober, objective** (refraining from using adjectives) and **rigorous way**, to obviate misunderstandings.

Should use a clear text that is sufficiently concise to keep the attention of the reader, but complete enough to allow an **independent researcher** to **repeat the tests** and reach the same conclusions.

The **page layout** of the paper, **format styles** of the various parts of the text, labels and captions of figures and tables, indexes of references, and any other formats are usually defined by the publisher and should be followed in a very strict way.

Standard Organization of a Scientific Paper

Conclusions:

The concluding section is the last section of the paper body.

Although it is often used as a summary of the work (assuming, this way, a similar structure and content as the Abstract) its main aim is to give **a critical view of the work** done, highlighting its most important scientific results and possibly advancing some research topics motivated by these results.

Many times, the Conclusion is too close to the Abstract which becomes redundant and is thus undesirable!

Standard Organization of a Scientific Paper

Appendices:

Sometimes, technical papers include one or more appendices. These are used to disclose **material** that is considered **important but not fundamental** to the main stream of the work description.

Examples of these are **demonstrations of theorems**, results, or statements in general, that were invoked without proof in the text. Other examples include **illustrative case studies** and other brief examples of application of the results advanced in the paper.

Appendices are usually labeled, and referred to, by a capital letter, which is attributed in a consecutive way, according to the order they are first called out within the paper body.

Standard Organization of a Scientific Paper

References' List:

List of the previous works referred along the text, labeled with a **[number]** used in the paper to invoke it, and attributed consecutively according to the order they are first referred in the text.

Check for the pre-defined styles to refer books, book chapters, papers in journals and papers appearing in conference digests.

Avoid references to material present in the internet or other non-typical scientific sources, not only because their technical accuracy is not warranted, as there is no guarantee that, a few years later, the source (e.g., the web site) is still available, or its location is the same.

How to Write a Quality Technical Paper and Where to Publish within IEEE

1. Introduction
2. Scientific Knowledge
3. Where to Publish within IEEE
4. Structure of a High-Quality Paper
5. **The Peer Review Process**

Objectives of the Paper Review Process

The Paper Review Process is intended to **determine the suitability for publication of the submitted material**, namely

that the disclosed results derived from the strict application of the **scientific method**,
and so that they **are verifiable**

and thus deserve to be accepted as **Scientific Knowledge**.

The Origins of the Peer Review Process

The Review Process must be based on the evaluation/criticism of **unbiased and independent** (from the work) **experts**.

An expert is an individual known to work in the field, and so to have already published in the same topic – **Peer-Review Process**.

To guarantee that the reviewers are unbiased and independent, the authors cannot know them, so that any form of potential (active or passive) pressure on the reviewer is prevented – **Blind-Review-Process**.

To guarantee that the reviewers' opinion is not conditioned by the authors (e.g., their fame as skilled scientists) sometimes authors' names are also omitted from the reviewers' knowledge – **Double-Blind-Review-Process**.

Players and Steps of the Review Process

The experts playing a role on the Peer Review Process constitute the **Editorial Board** or **Technical Program Committee**, which is composed by:

1 – The **Editor in Chief** or **Technical Program Committee Chair** is a highly reputed scientist who receives the paper, checks for its adequacy to the publication and for verifying if the paper has a minimum quality level, i.e., if it is readable and understandable and its addressed topic is not trivial or obviously erroneous.

The **Editor in Chief** makes a **preliminary review** which results in a preliminary reject or the paper's assignment to one Associate Editor for review.

Players and Steps of the Review Process

The experts playing a role on the Peer Review Process constitute the **Editorial Board** or **Technical Program Committee**, which is composed by:

2 – (Possibly) several **Associate Editors**, which are also reputed scientists responsible for different topics.

The Associate Editor selects Reviewers, collects Reviews and/or Recommendations and makes Decisions.

Players and Steps of the Review Process

The experts playing a role on the Peer Review Process constitute the **Editorial Board** or **Technical Program Committee**, which is composed by:

3 – The **Reviewers** are experts in the particular field of research, and review the paper according to the paper quality criteria previously discussed, fill in a **Review Form**, which they then return to the **Associate Editor**.

Reviewers with potential **Conflicts of Interest**, should decline the revision.

Accepting to review a paper of a colleague of the same group or institution, or with whom he maintains or had a hierarchical relationship, is considered **unethical**.

The Review Process Decision

The (**Associate**) **Editor's Decisions** are based on his own opinion about the work and the reviewers' arguments and recommendations.

These decisions are not derived from any average, or "vote counting", of the reviewers' recommendations, as these are valued by the objective and technical arguments used by the reviewers to support their opinions.

Decisions are based on technical arguments, they are not matter of opinion. So, they are not "democratic"!

Authors' Appeals on one review decision are very exceptional and are typically made to the Editor in Chief.

Typical Review Form

Typical Review Form:

A typical Review Form is divided in two parts: 1st Part - For the Author:

FOR THE AUTHOR:

1. *This Journal only accepts **new** and **original** articles describing significant work and/or ideas not found elsewhere in the literature. Is this work a **new** and **original** contribution in the area of the Journal?*

2. *The Journal does not accept **incremental** submissions. After considering all prior work published by the authors and others, would you characterize this submission as **incremental**?*

…

Typical Review Form

Typical Review Form:

A typical Review Form is divided in two parts: 1st Part - For the Author:

FOR THE AUTHOR:

3. *Is the significant work of the authors and others **properly referenced**?*

4. *The Journal generally requires that **theory**, **measurements**, and **simulations** be supported by **careful comparisons**. Do the theory, measurements, and simulations presented meet this requirement?*

…

Typical Review Form

Typical Review Form:

A typical Review Form is divided in two parts: 1st Part - For the Author:

FOR THE AUTHOR:

5. *Please comment on the **organization**, **quality of** the **writing**, **spelling** and **grammar**. Does this manuscript need **grammatical** revision?*

6. *How **significant** is this work?*

7. ***Additional comments** and suggestions for the author:*

(Please note that this is the most important part of the review.)

Typical Review Form

Typical Review Form:

A typical Review Form is divided in two parts: 2nd Part - For the Editor:

FOR THE EDITOR:

1. *If you were the editor, **would you accept** this paper? (If not, and this is not clear from your previous comments, please explain.)*

2. *Would you **like to nominate** this paper for the Journal's Best Paper Award?*

(Note that these are only your personal (subjective) opinions, which the Associate Editor interprets as recommendations. He does not need to follow them, as he is the solely responsible for the decision.)

Editorial Board's Decisions

The (Associate) Editor's Decisions are, often, one of the following:

1 - **Accept as Is** (Very Rare)

Except for minor text or artwork editing, the paper can be published as is.

2 - Accept with **Minor Revisions** (Frequent)

The paper can be accepted for publication, but some minor modifications should be made to the manuscript.

However, as these modifications will not alter the main ideas of the paper, no subsequent review is needed.

Editorial Board's Decisions

The (Associate) Editor's Decisions are, often, one of the following:

3 - Accept provided **Major Revisions** are done (Most Frequent)

The paper has potential to be accepted but needs mandatory modifications that can be made in, say, 1 to 2 months.

The authors are given the chance to modify their manuscript, carefully responding to the reviewers' comments and criticisms, as it will most certainly be sent again to the reviewers.

Editorial Board's Decisions

The (Associate) Editor's Decisions are, often, one of the following:

4 - **Reject and Re-Submit** (Rare)

Although the paper is not conform with the quality standards of the journal, a publishable idea was found on it. However, since it is not well presented, and the required modifications are such that it is assumed that authors cannot perform them in, say, 1 to 2 months, the paper must be rejected.

The paper resubmission will be given a new review-process identifier, and the Submission Date (which guarantees the authorship of an idea) will have to be reset.

Editorial Board's Decisions

The (Associate) Editor's Decisions are, often, one of the following:

5 - **Reject** (Occasional in highly ranked journals and conferences)
The paper is not considered to have enough innovative value, its topic is not interesting (considering the state-of-the-art) or its ideas were not thoroughly tested to a point in which the results can be considered "true" within all reasonable doubt.

Next Steps

Next Steps: IEEE *Xplore*® and other author tools

Michael Shapiro
IEEE Client Services Manager, Latin America

IEEE Authorship Workshops Brazil, Sept. 2015

IEEE Xplore® DIGITAL LIBRARY

Prepare

First Steps

Your research problem must contribute new and important knowledge to your field

- **Conduct a Literature Review**
- Take Notes & Keep Track
- Gather References & Citations
- Draft an Outline

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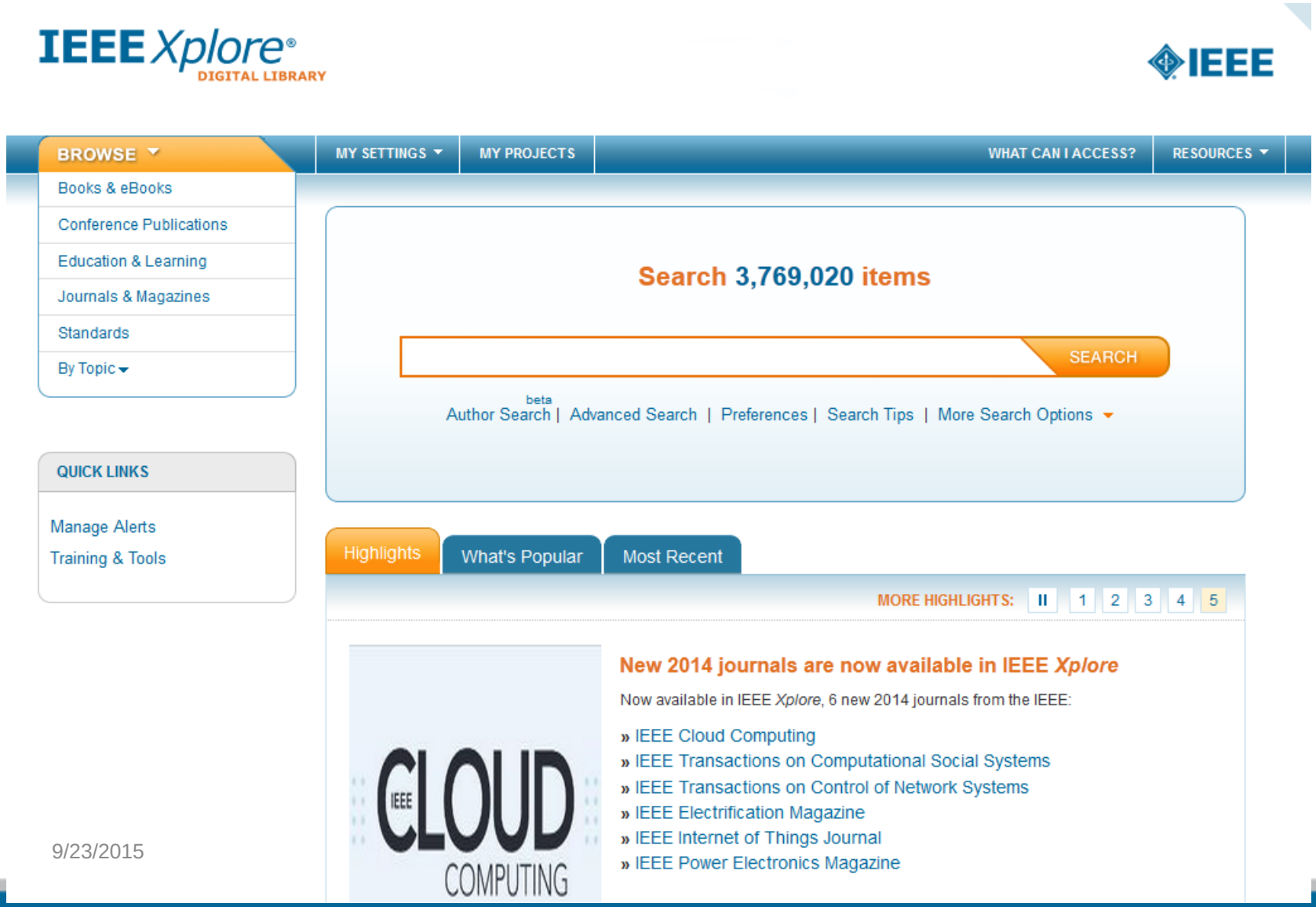
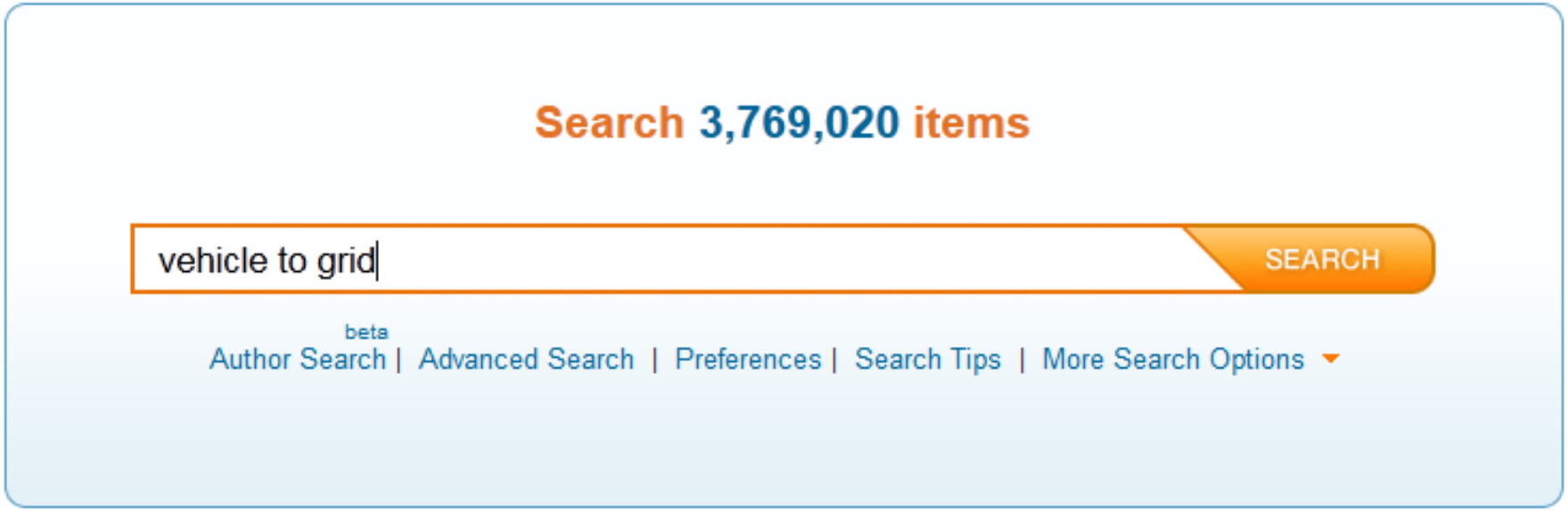
Getting started



Start simply



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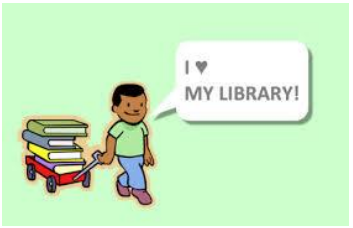
(exercise your inner librarian)



Journals: Presentation of finished results

- State of the Art:
  - Magazines
  - Journals & Transactions
  - Letters

Conferences:

-Focus: Specific applications

-Looking for feedback, commentary

-Preliminary results welcome; works in process

-Development of communities in emergent technologies

-Over 2.4 millon documents

Standards

- Follow an established cycle:
  - Active
  - Draft
  - Archived
  - Withdrawn
  - Redline, etc.
- Best known IEEE Standard, 802.11 (wireless communication)

	802.16	802.16a	802.16e
Spectrum	10 – 66 GHz	2 – 11 GHz	<6 GHz
Configuration	Line of Sight	Non- Line of Sight	Non- Line of Sigh!
Bit Rate	32 to 134 Mbps (28 MHz Channel)	≤ 70 or 100 Mbps (20 MHz Channel)	Up to 15 Mbps
Modulation	QPSK, 16-QAM, 64-QAM	256 Sub-Carrier OFDM using QPSK, 16-QAM, 64-QAM, 256-QAM	Same as 802.16a
Mobility	Fixed	Fixed	≤75 MPH
Channel Bandwidth	20, 25, 28 MHz	Selectable 1.25 to 20 MHz	5 MHz (Planned)
Typical Cell Radius	1-3 miles	3-5 miles	1-3 miles
Completed	Dec, 2001	Jan, 2003	2nd Half of 2005

Other content:

- eBooks (3 collections)
  - IEEE/Wiley
  - MIT
  - Morgan & Claypool
- Courses: eLearning and English for Engineering
- MIT Press, IBM Journals

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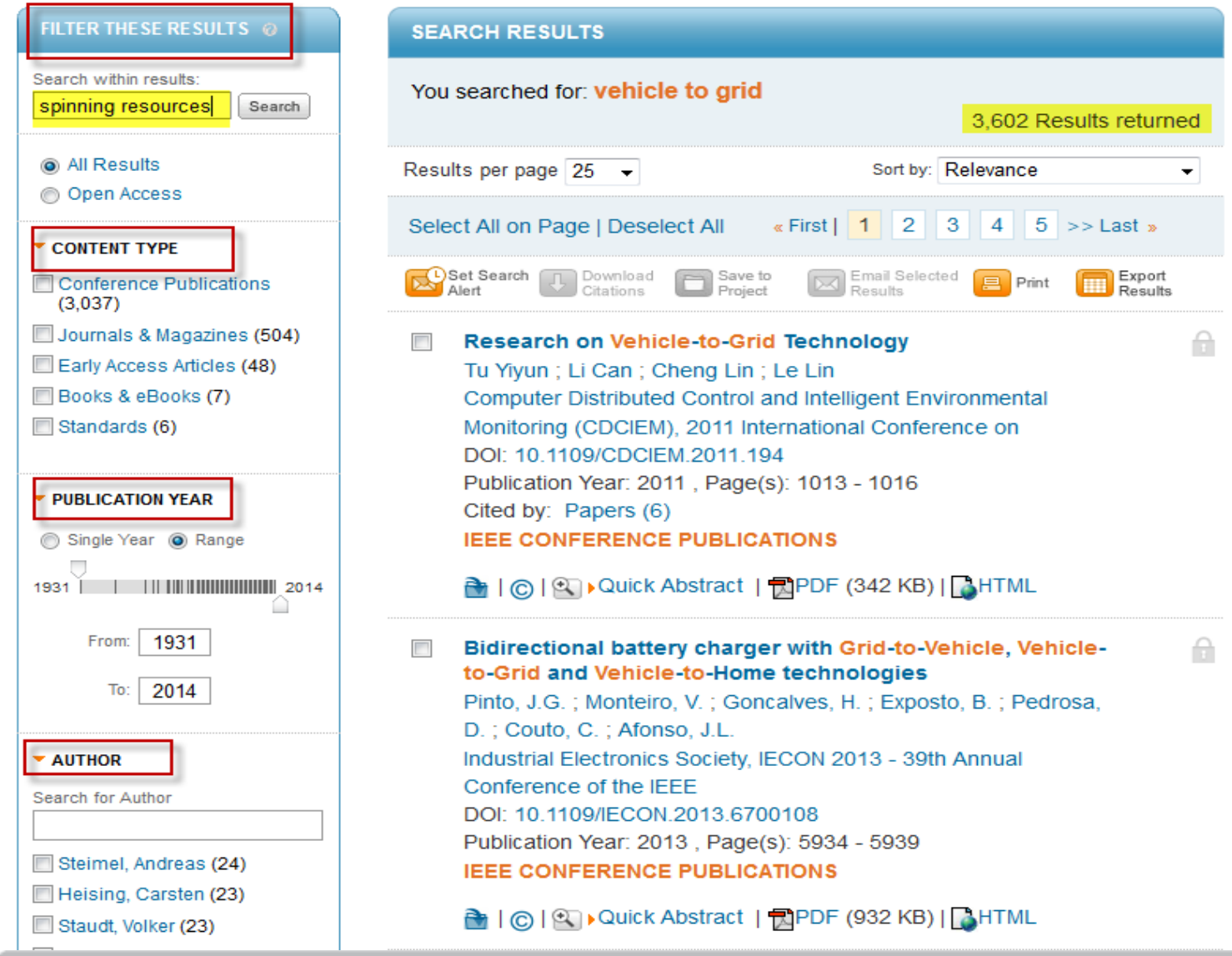
Then narrow, or refine



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From 3602 to 32

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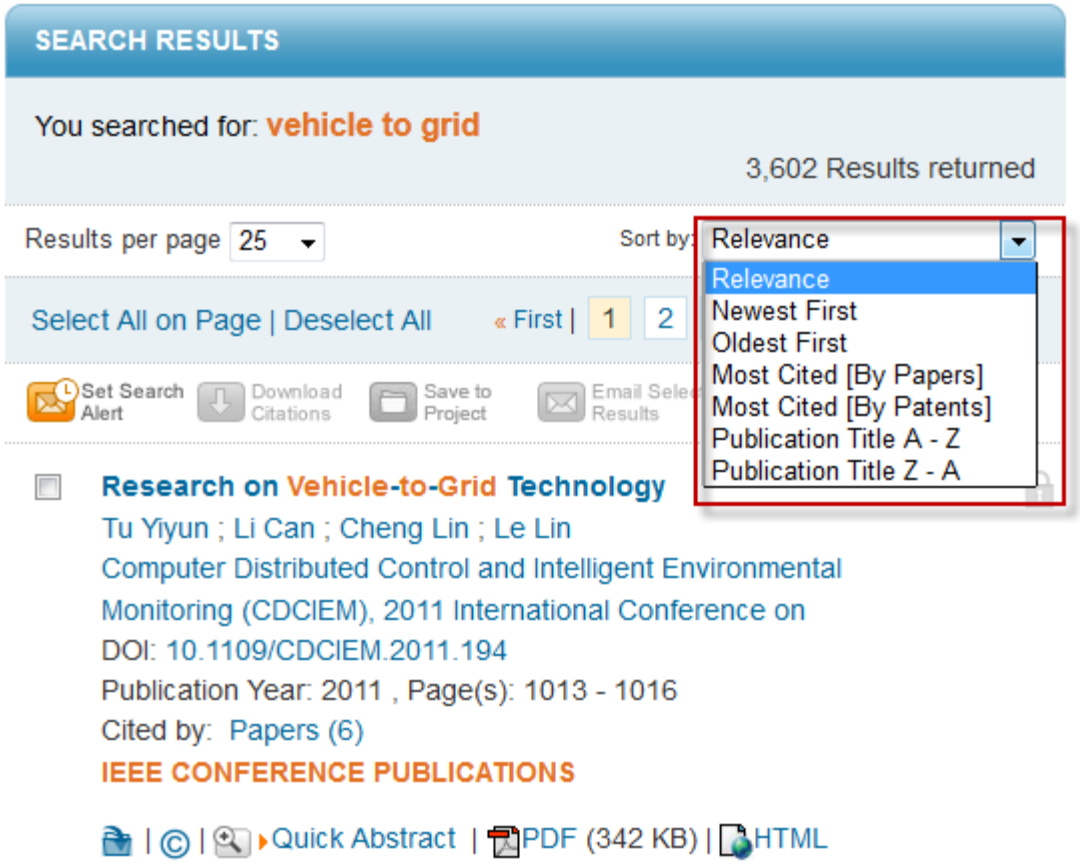
Re-sort your results to find new or highly-cited papers



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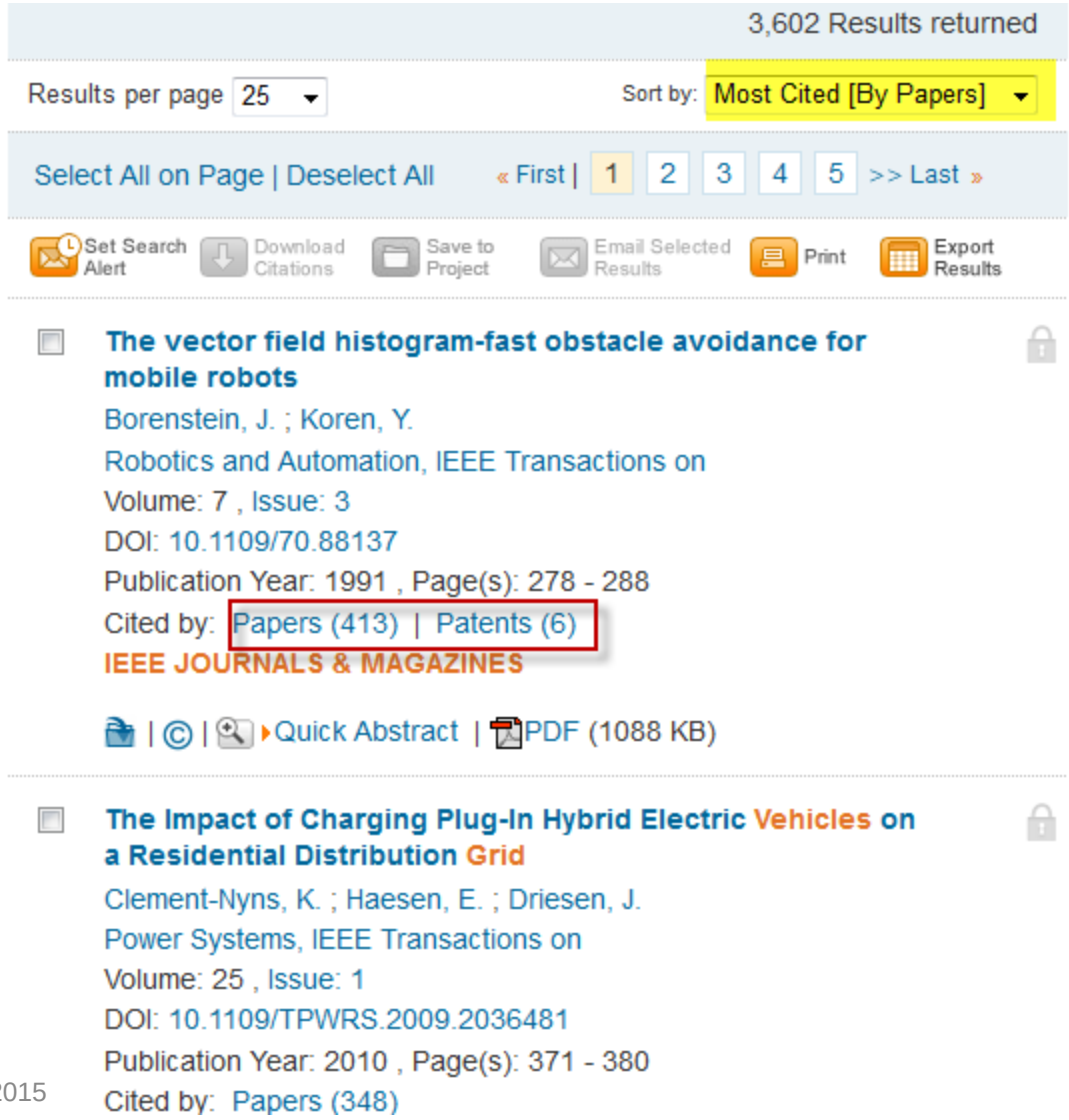
Most cited – by papers or patents



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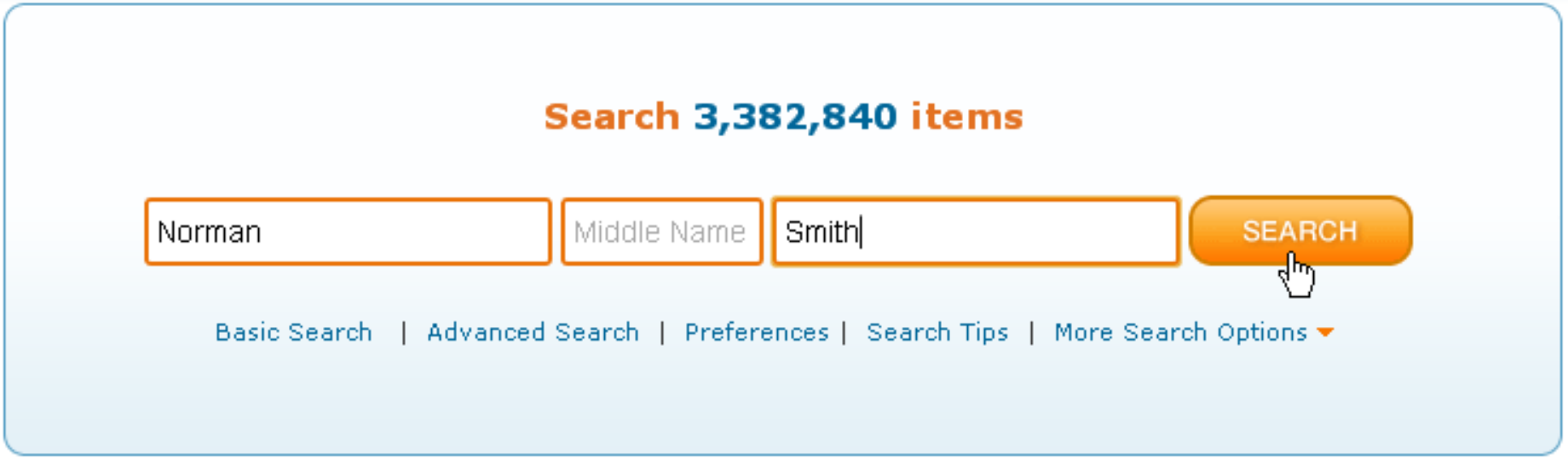
Once you know key authors



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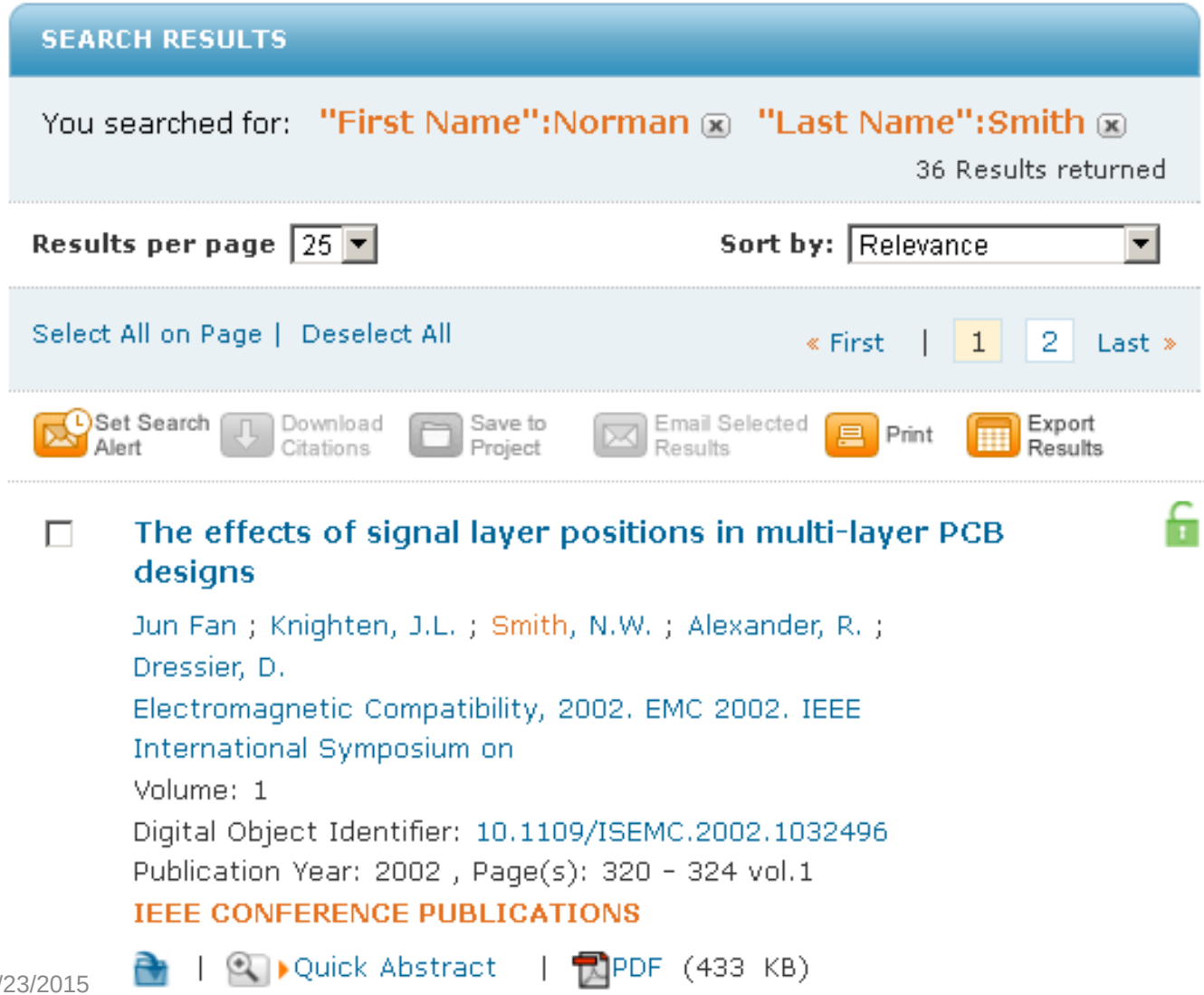
Just find articles by that person



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Helpful Tips on searching *IEEE Xplore®*

- Target specific publications once you've found the right focus
- Use "Advanced Search" or "Command Search" for multi-field or more complex searches
  - Full-text search
  - Boolean operators
  - Phrase nesting
- Use a personal account to stay organized while doing literature searches

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Prepare
First Steps

- Conduct a Literature Review
- **Take Notes & Keep Track**
- Gather References & Citations
- Draft an Outline

Create a free personal account

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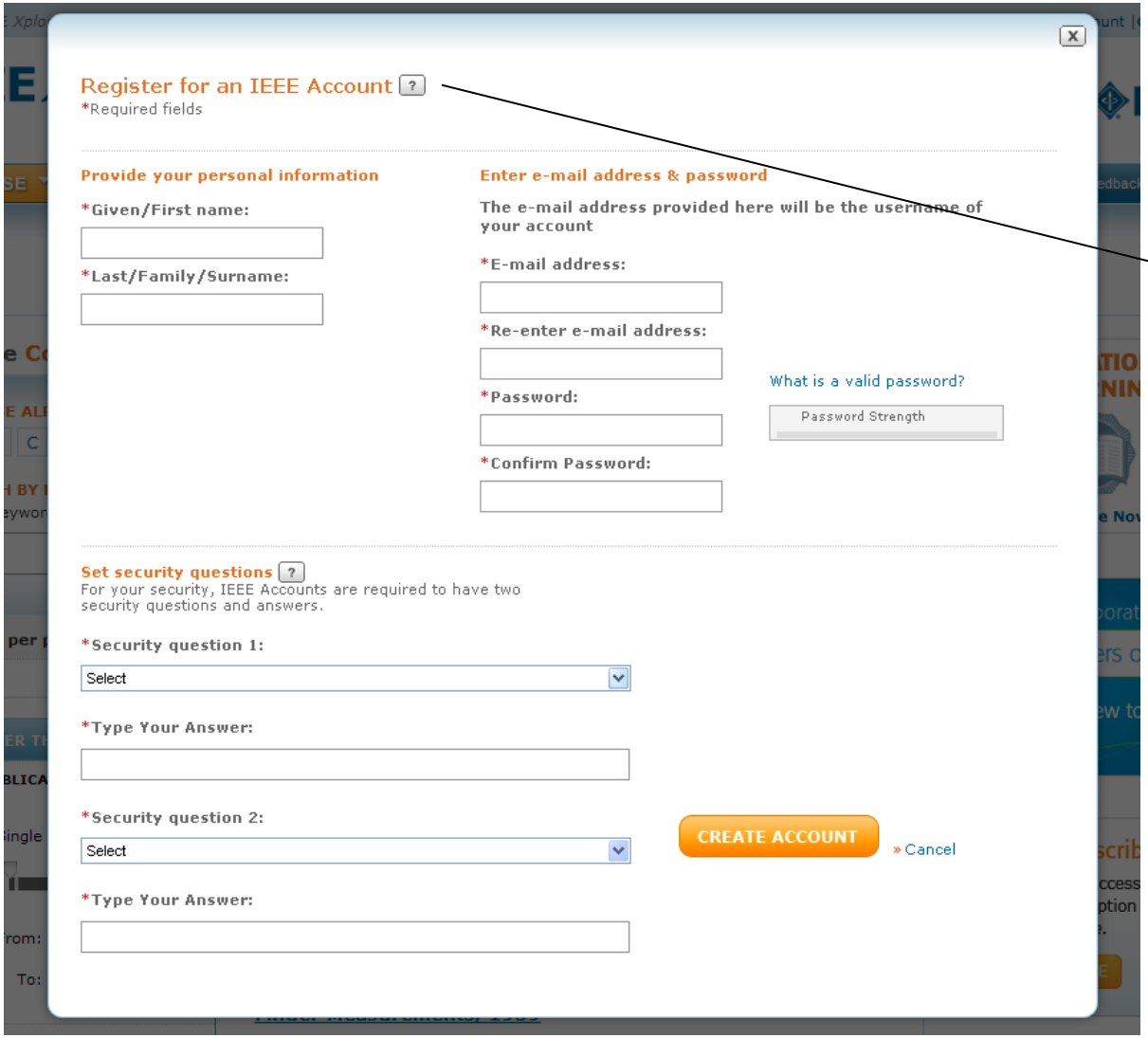

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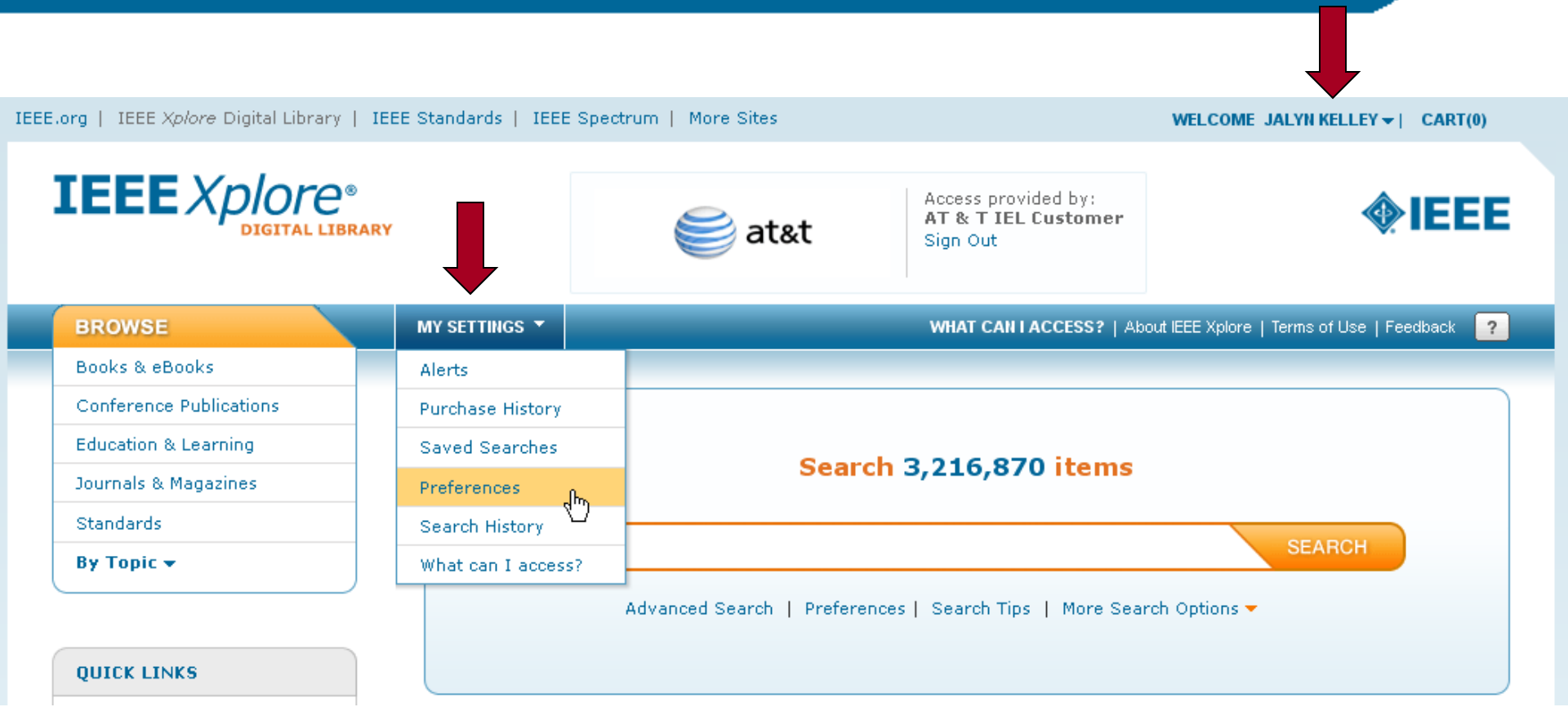

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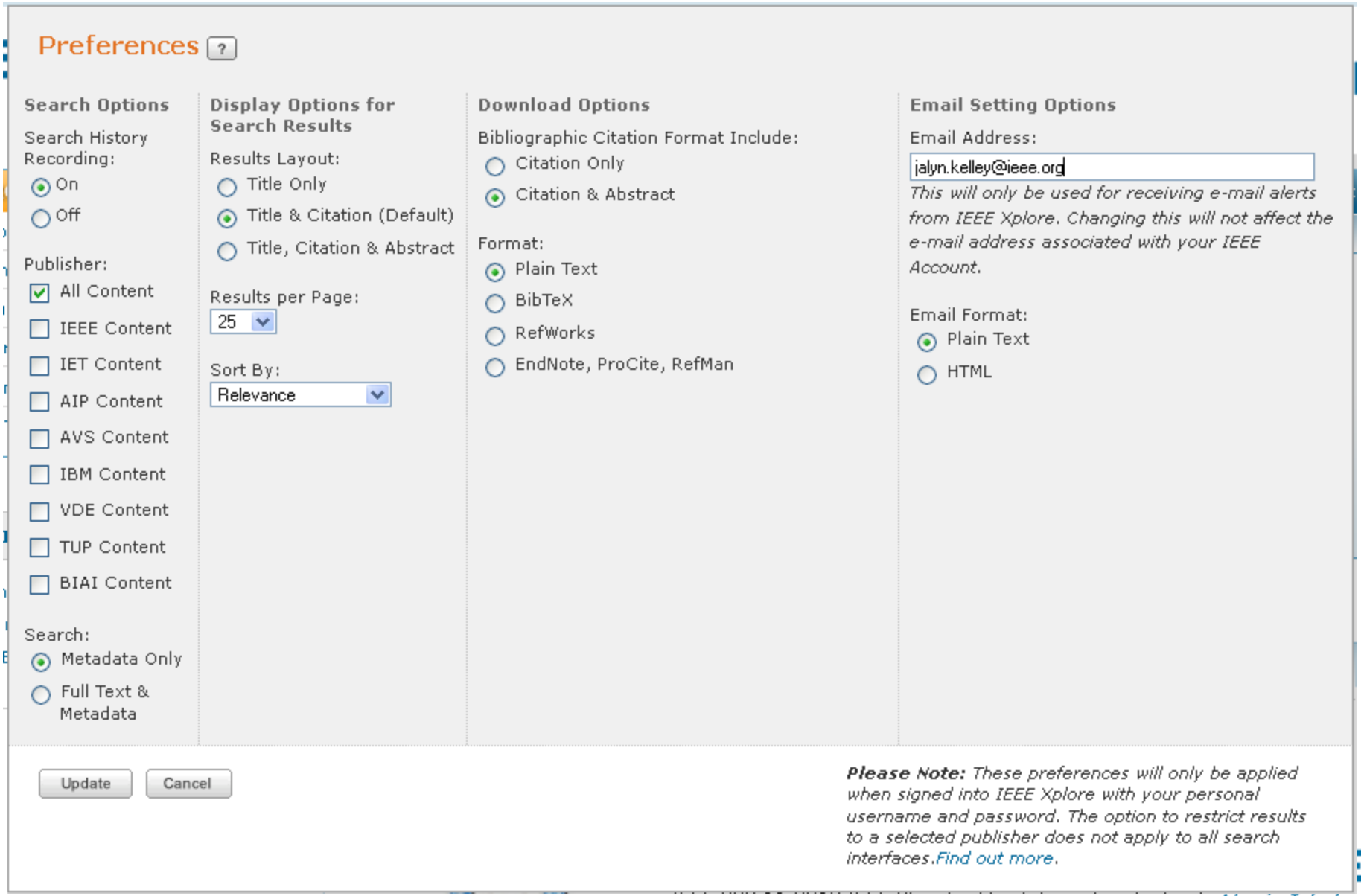

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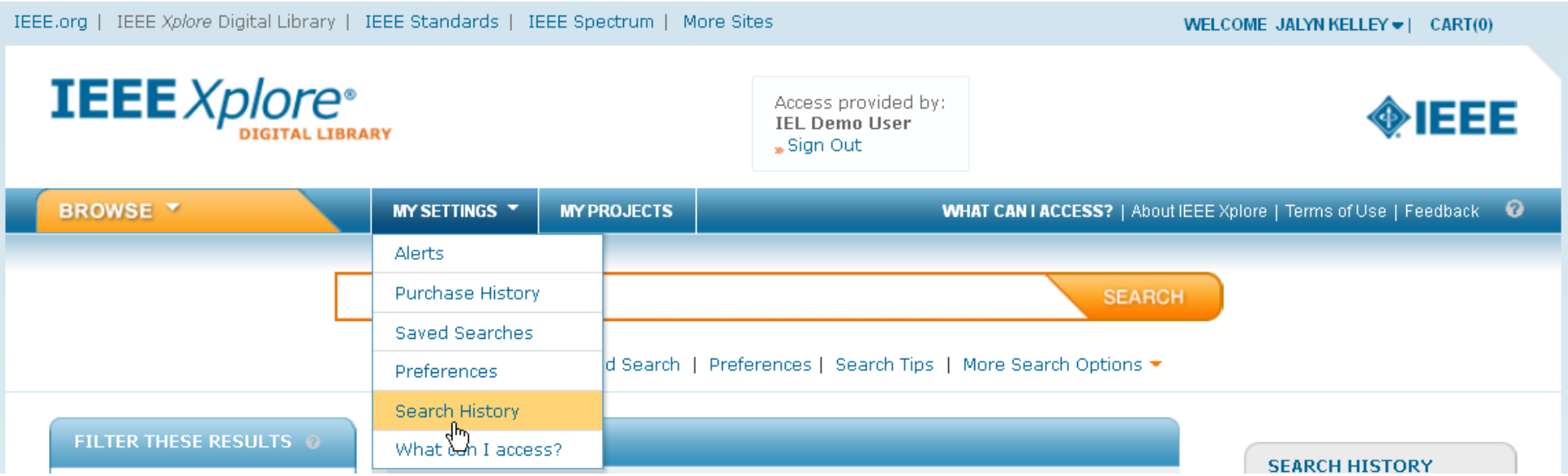
Keep track: Search History



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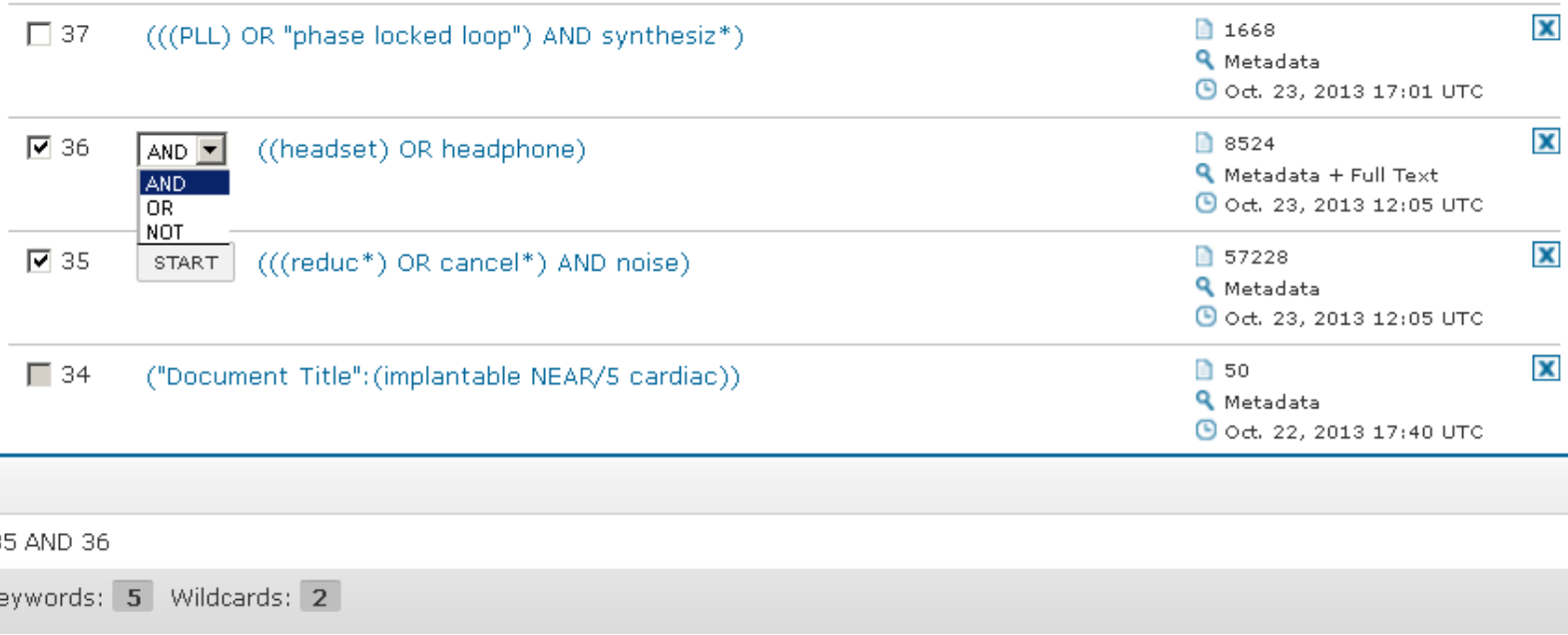
Re-run or combine searches



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SEARCH RESULTS

You searched for: (((((reduc*) OR cancel*) AND noise))) AND (((headset) OR headphone))

378 Results returned

Results per page 25 | Sort by: Relevance

Select All on Page | Deselect All « First | 1 2 3 4 5 >> Last »

Set Search Alert | Download Citations | Save to Project | Email Selected Results | Print | Export Results

Evaluation of Speech Intelligibility for Feedback Adaptive Active Noise Cancellation Headset

Jiun-Hung Lin ; Shih-Tsang Tang ; Wei-Ru Han ; Chih-Yuan Chuang ; Liu, Ping-Ting ; Shuenn-Tsong Young

Biomedical and Pharmaceutical Engineering, 2006. ICBPE 2006. International Conference on

Publication Year: 2006 , Page(s): 24 - 29

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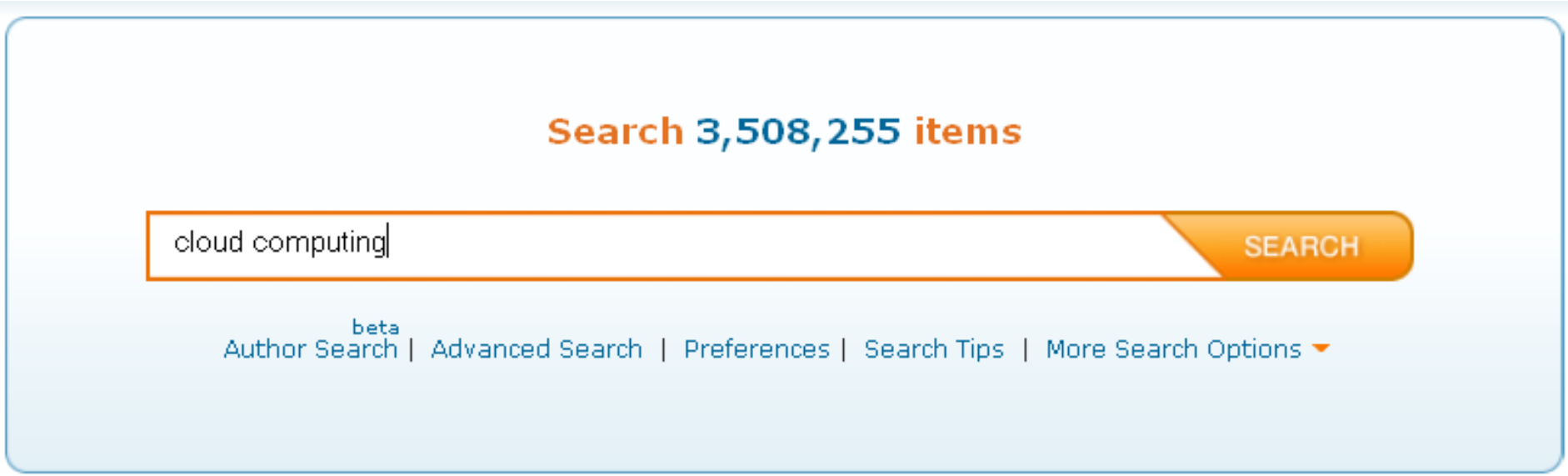

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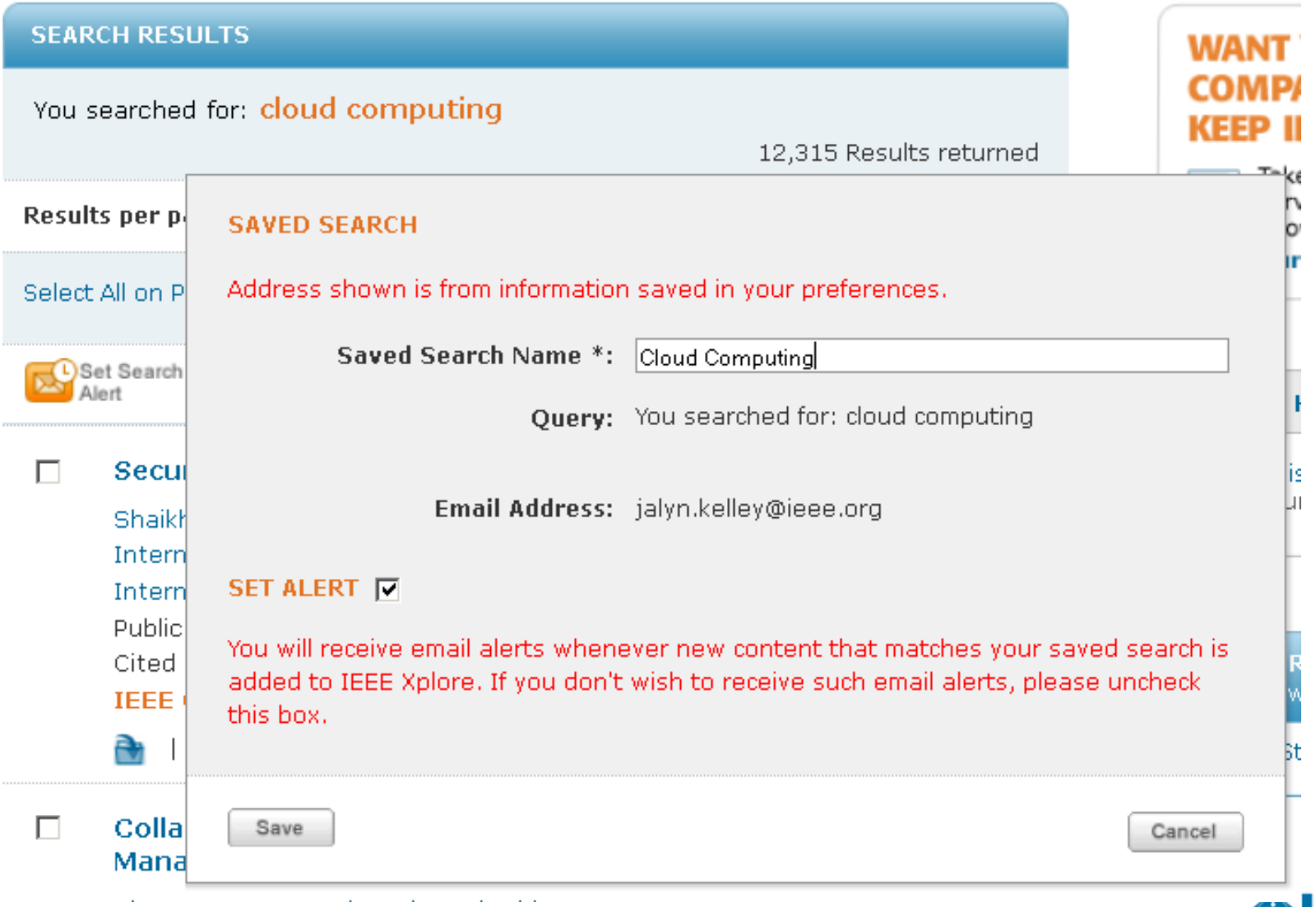

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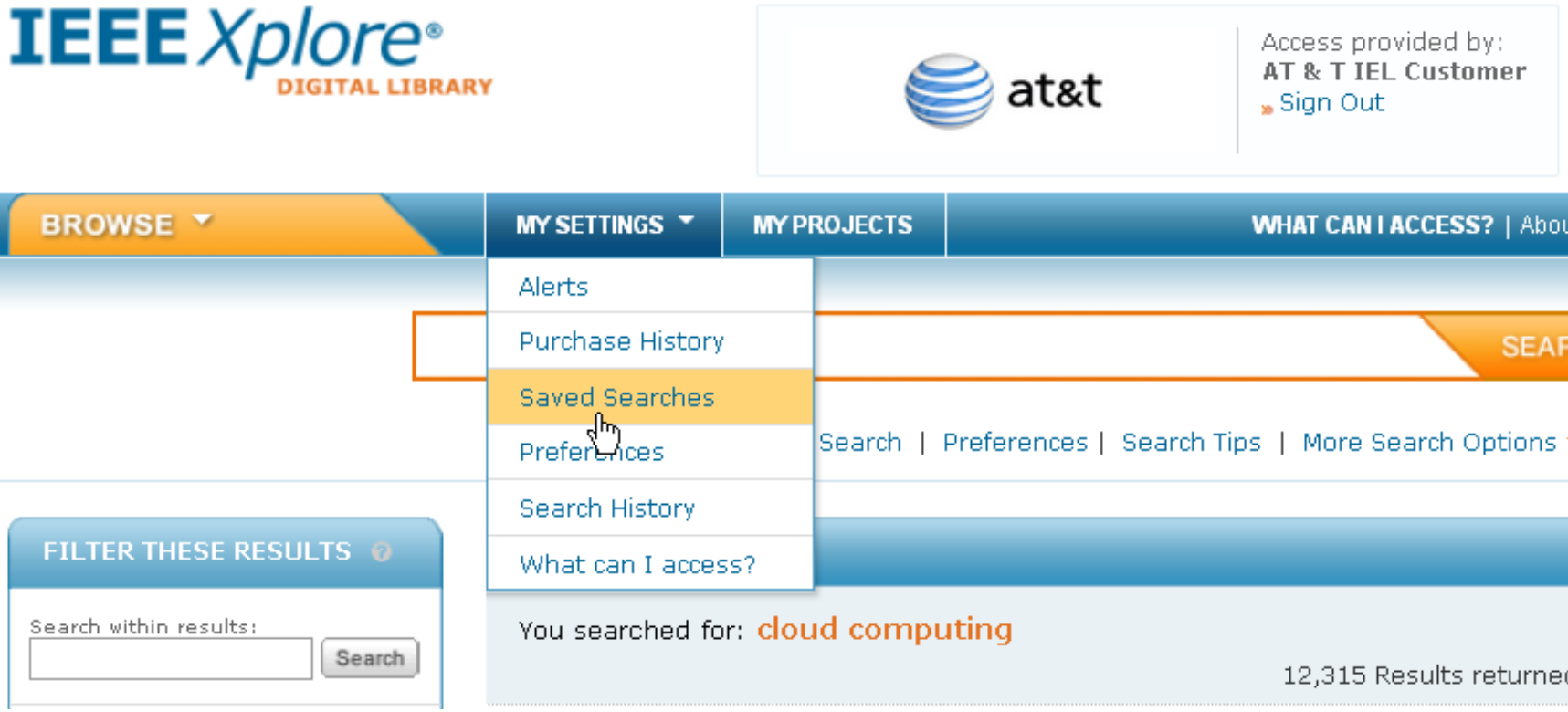

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1 Cloud Computing	You Searched For **"cloud computing"**	RSS	Rename	Delete	Disable Alert
2 WSN	You Searched For **"Wireless Sensor Networks"**	RSS	Rename	Delete	Disable Alert
3 MEMS	You Searched For **"MEMS"**	RSS	Rename	Delete	Disable Alert
4 Biometrics	You Searched For **"Biometrics"**	RSS	Rename	Delete	Disable Alert
5 Samsung	You Searched For **("Author Affiliation":Samsung)"**	RSS	Rename	Delete	Enable Alert

IEEE Advancing Technology for Humanity

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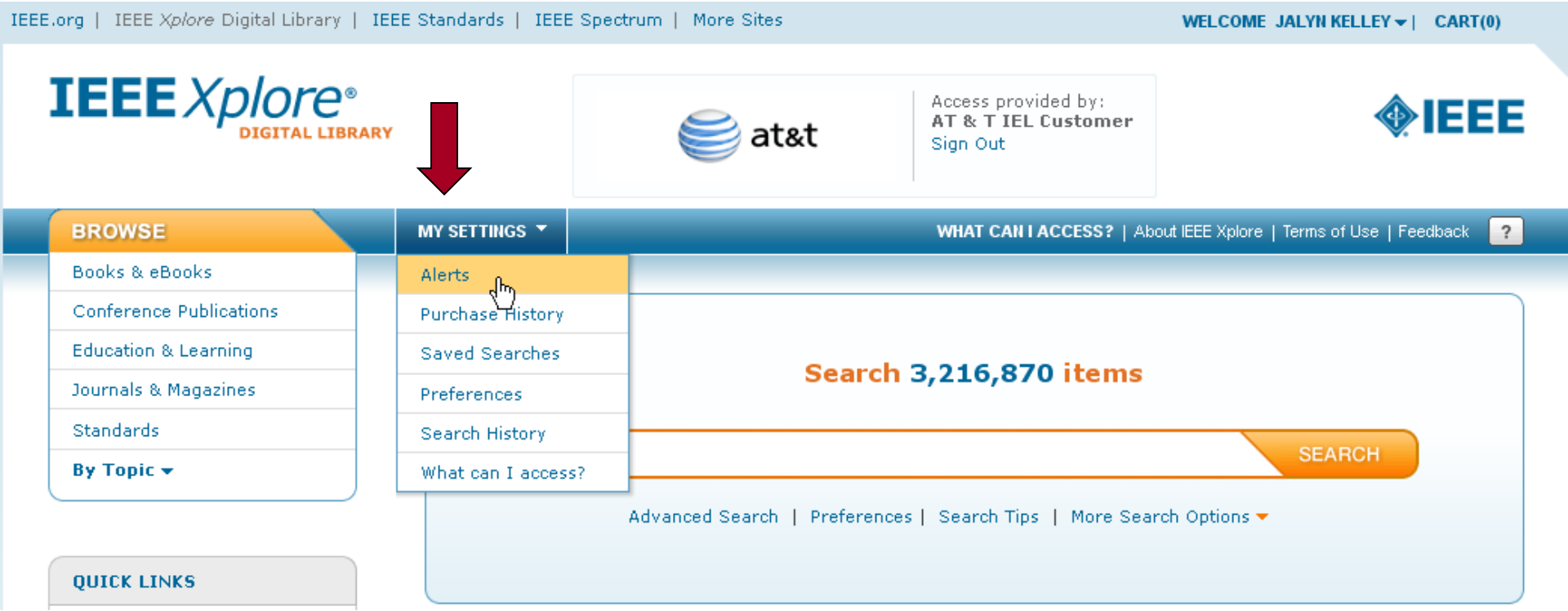

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Table of Contents Alerts

Manage your research quickly and efficiently with convenient Table of Contents Alerts. You will receive an email when a new journal or magazine issue in your area of interest has been posted online

Alerts will be sent to **"jalyn.kelley@ieee.org"** in **"Html"** format. These settings can be updated within the Preferences feature.

Journals & Magazines | Conferences | Standards By Version

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Most Recent Issue Issues Per Year : 2

Advancing Technology for Humanity

Prepare
First Steps

- Conduct a Literature Review
- Take Notes & Keep Track
- **Gather References & Citations**
- Draft an Outline

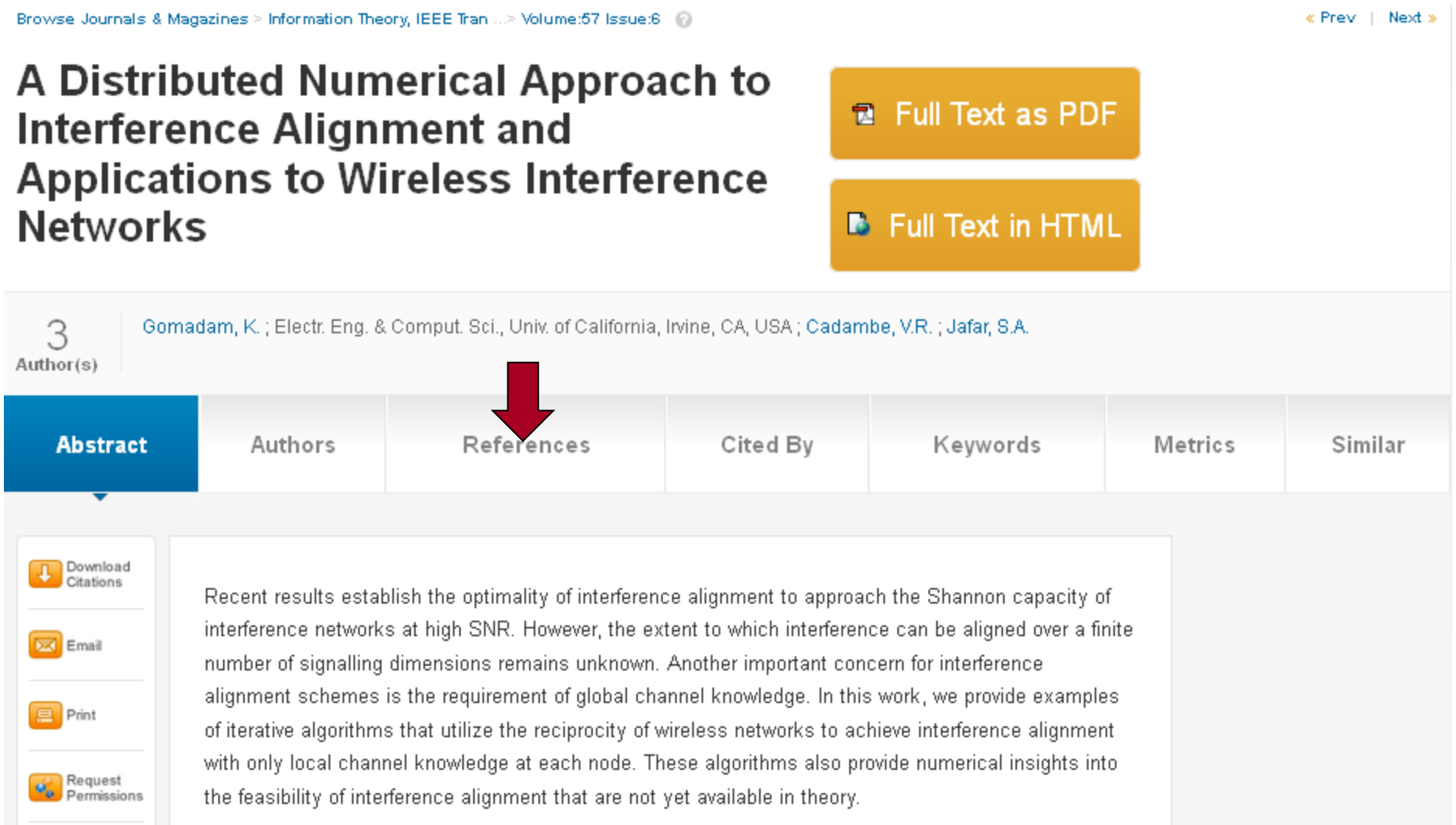
IEEE Advancing Technology for Humanity

Two ways to use references and citations

- One paper's reference list can be a gateway to a second set of relevant articles during your literature search
- You will need to cite references in your paper to support your research

IEEE Advancing Technology for Humanity

Find references on Abstract Pages



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References

Citation Map

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1. V. Cadambe and S. A. Jafar "Interference alignment and the degrees of freedom of the K user interference channel", *IEEE Trans. Inf. Theory*, vol. 54, no. 8, pp.3425 -3441 2008

   Abstract | Full Text: PDF (422KB) | Full Text: HTML

2. S. Srinivasa and S. Jafar "The throughput potential of cognitive radio—A theoretical perspective", *IEEE Commun. Mag.*, vol. 45, no. 5, 2007

   Abstract | Full Text: PDF (119KB)

3. S. Haykin "Cognitive radio: Brain-empowered wireless communications", *IEEE J. Sel. Areas Commun.*, vol. 23, no. 2, pp.201 -220 2005

   Abstract | Full Text: PDF (600KB) | Full Text: HTML

4. C. Rose , S. Ulukus and R. Yates "Wireless systems and interference avoidance", *IEEE Trans. Wireless Commun.*, vol. 1, pp.415 -428 2002

   Abstract | Full Text: PDF (419KB) | Full Text: HTML

5. O. Popescu , C. Rose and D. C. Popescu "Signal space partitioning versus simultaneous water filling for mutually interfering systems", *IEEE Global Telecommunications Conf. (GLOBECOM)*, 2004

   Abstract | Full Text: PDF (598KB) | Full Text: HTML

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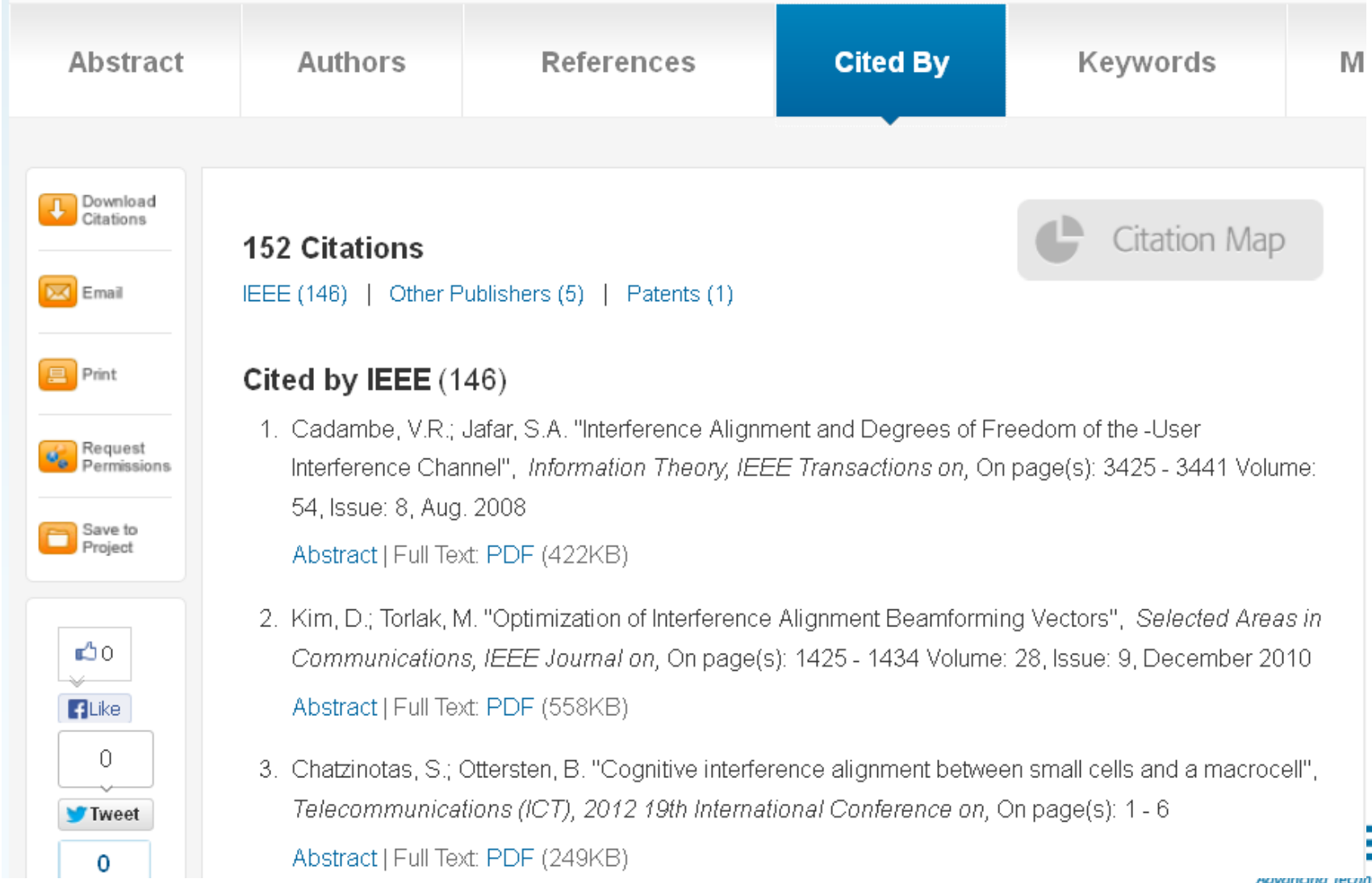

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1. Pereira, Stephanie F. ; Xue, Feng , "WIRELESS NETWORK AND METHOD FOR ADAPTIVE OPPORTUNISTIC CLUSTERING FOR INTERFERENCE ALIGNMENT IN WIRELESS NETWORKS" , Patent No. 8036098

View At Patent Office | Full Text:PDF

Inventors:
Pereira, Stephanie F. ; Xue, Feng

Abstract:
Embodiments Of A Central Scheduler And Method For Adaptive Clustering Are Generally Described Herein. In Some Embodiments, A Cluster Of Transmitter-receiver Pairs Is Selected Based On Minimum Singular Values Calculated From Direct Channel Information And The Selected Pairs Are Instructed To Perform An Interference Alignment Technique. </P>

Assignee:
INTEL CORP

Filing Date:
April 20, 2009

Grant Date:
October 11, 2011

Patent Classes:
Current U.S. Class:
370201000, 370208000, 370328000, 370329000

Current International Class:
H04J0011200, H04J0010000, H04W0040000

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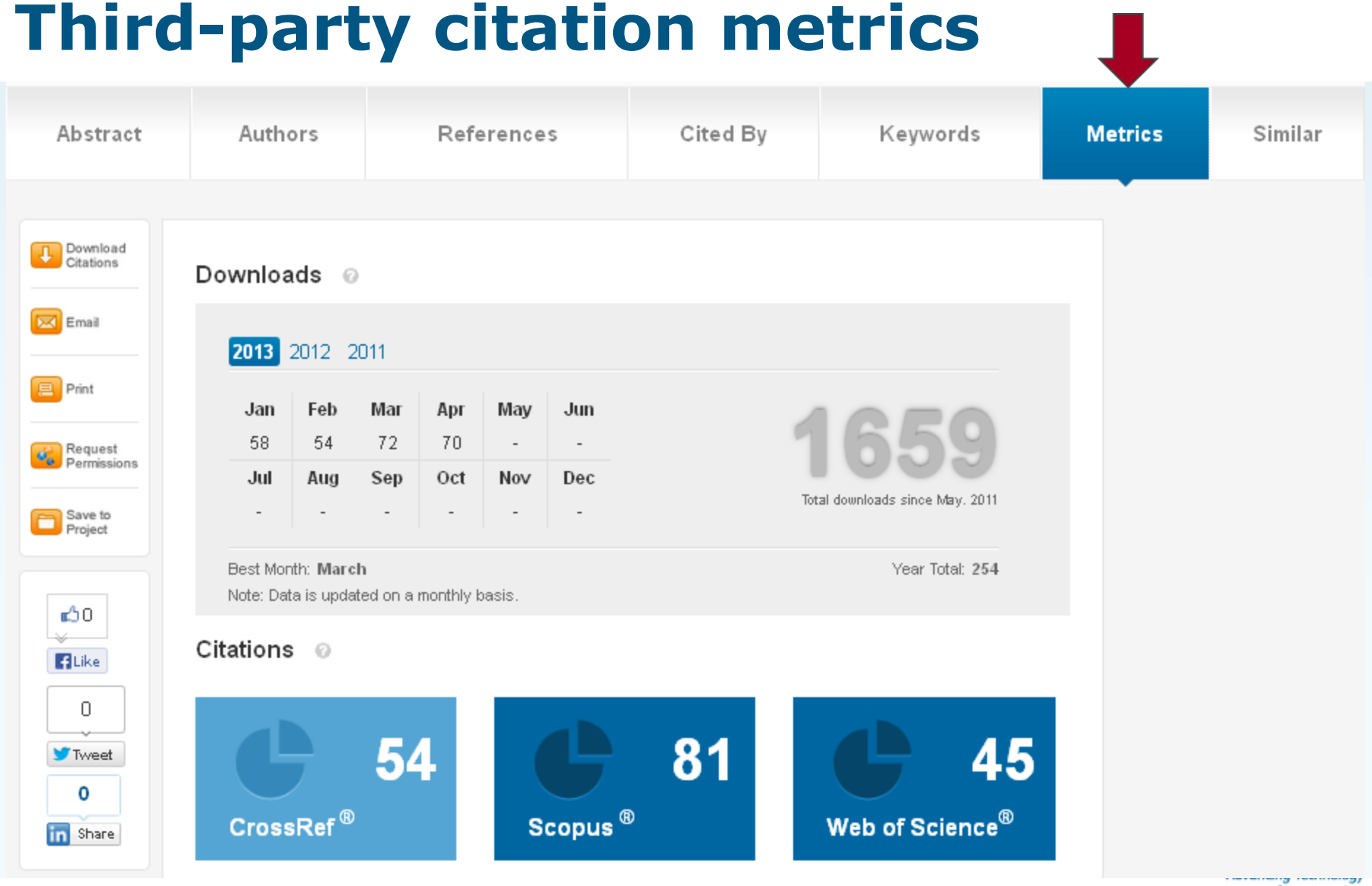

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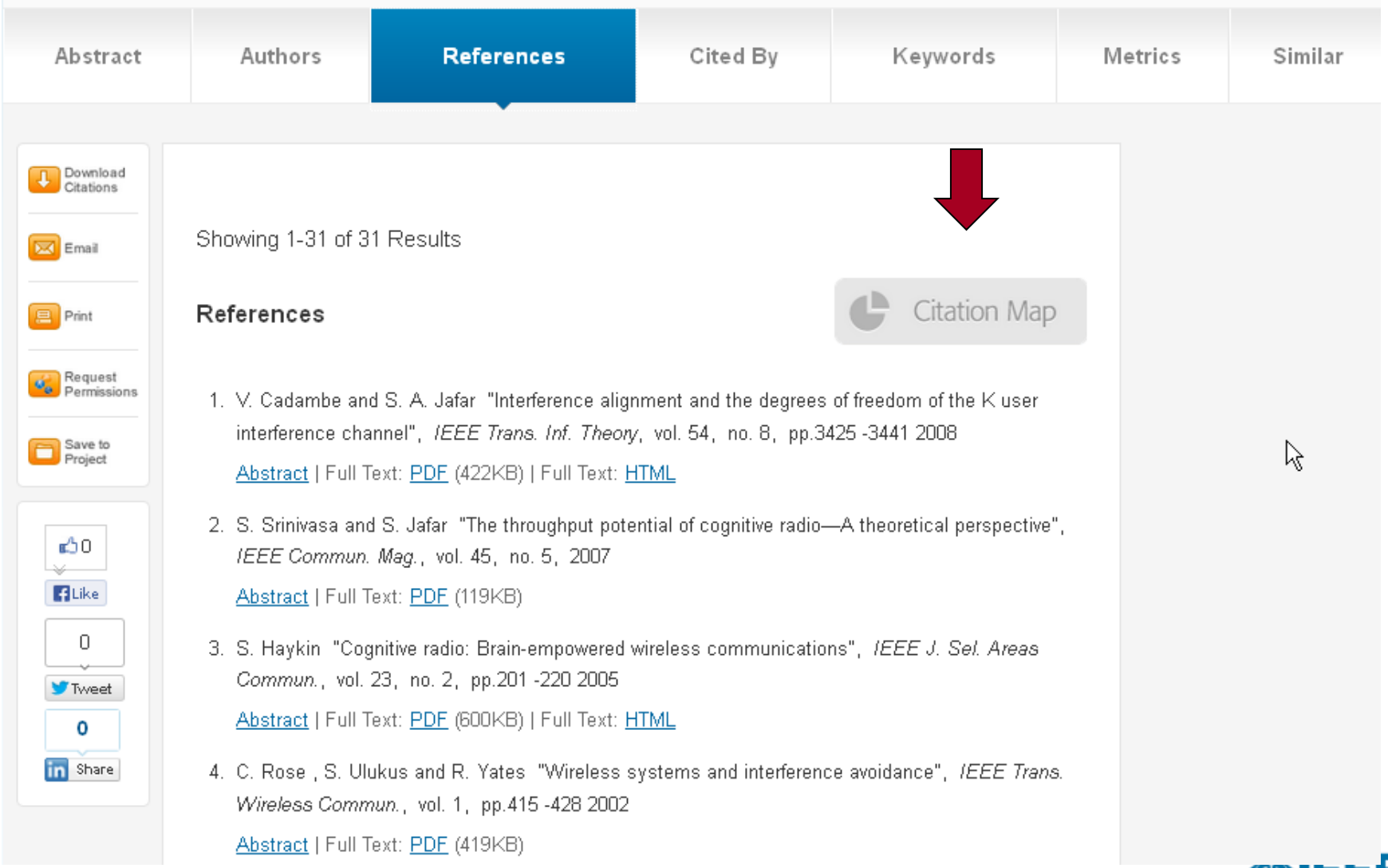

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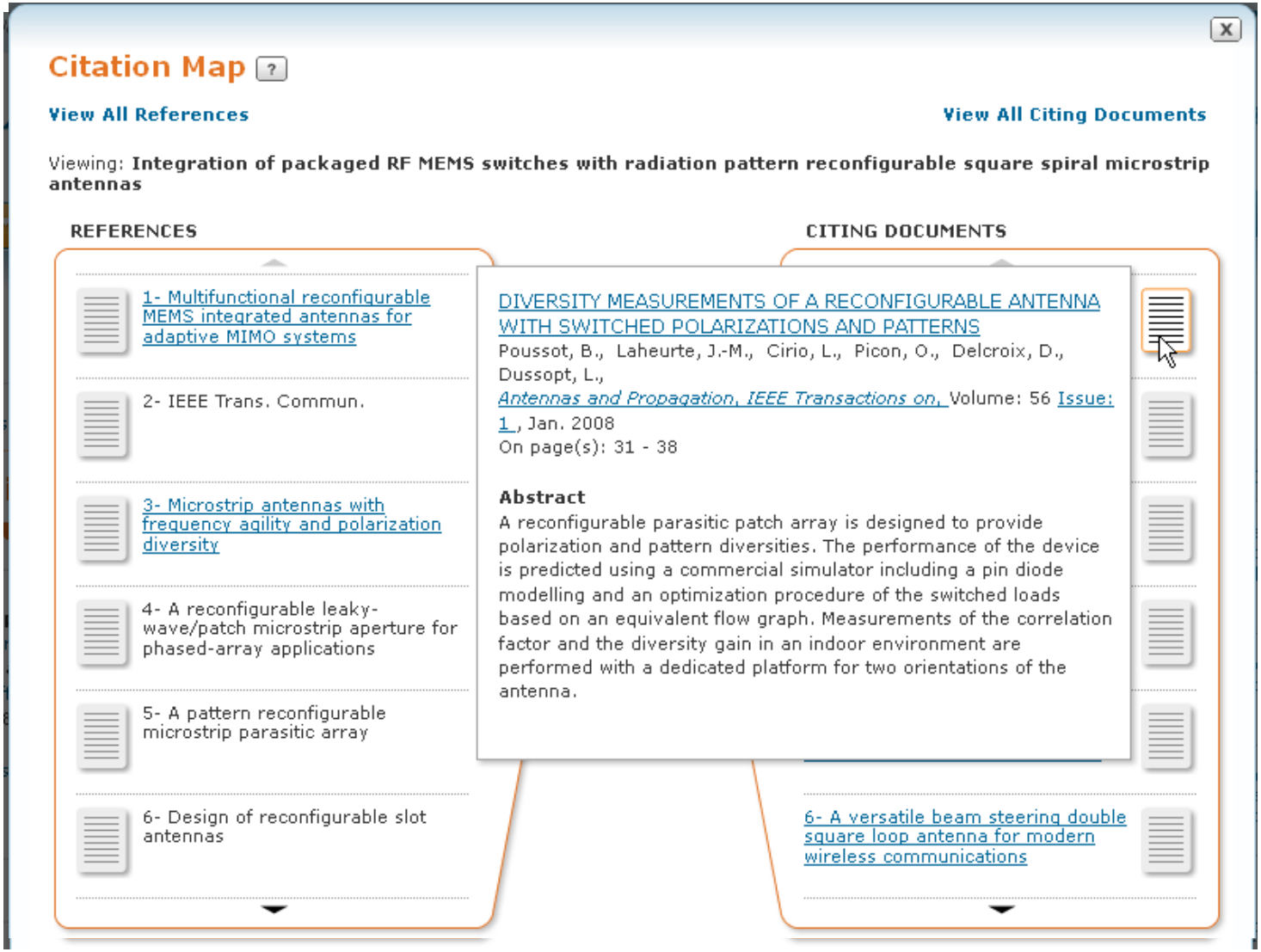

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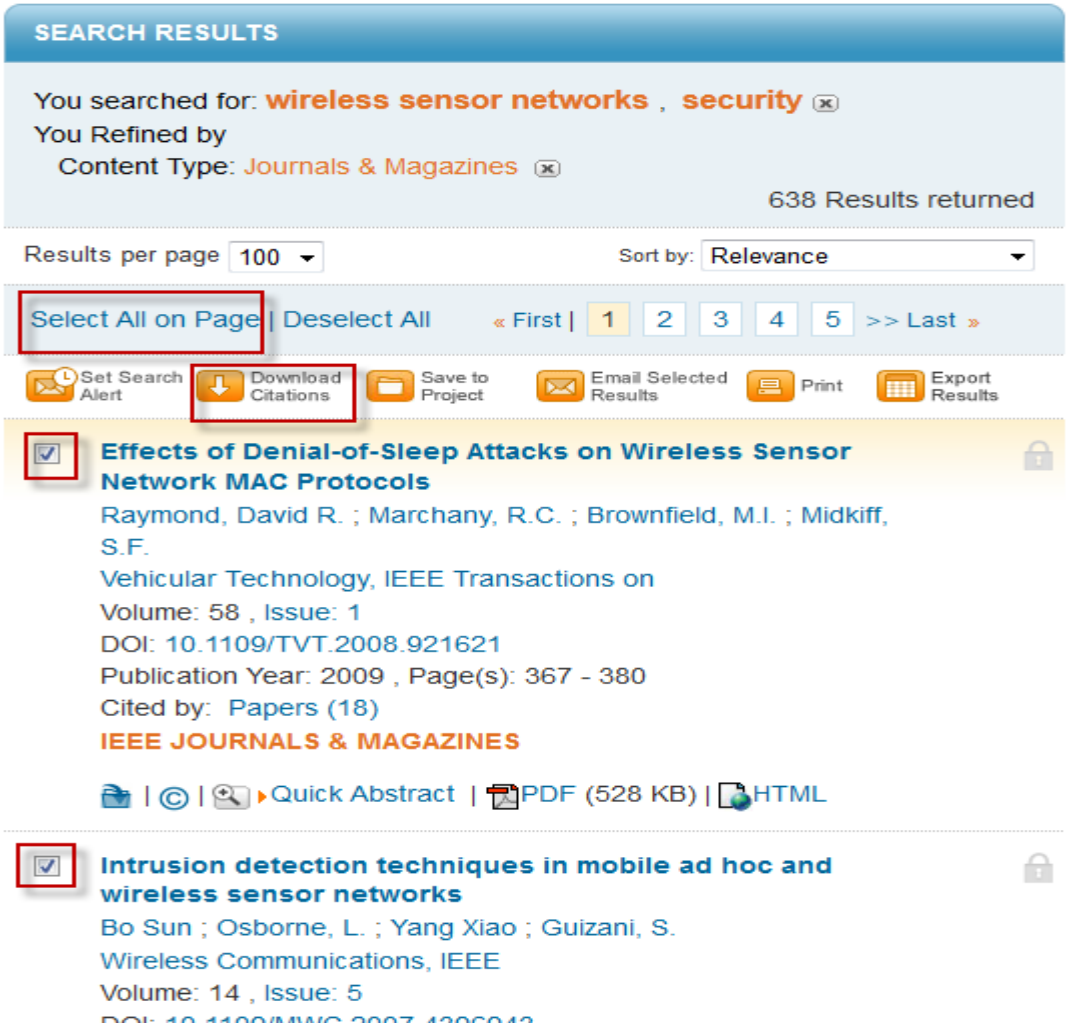

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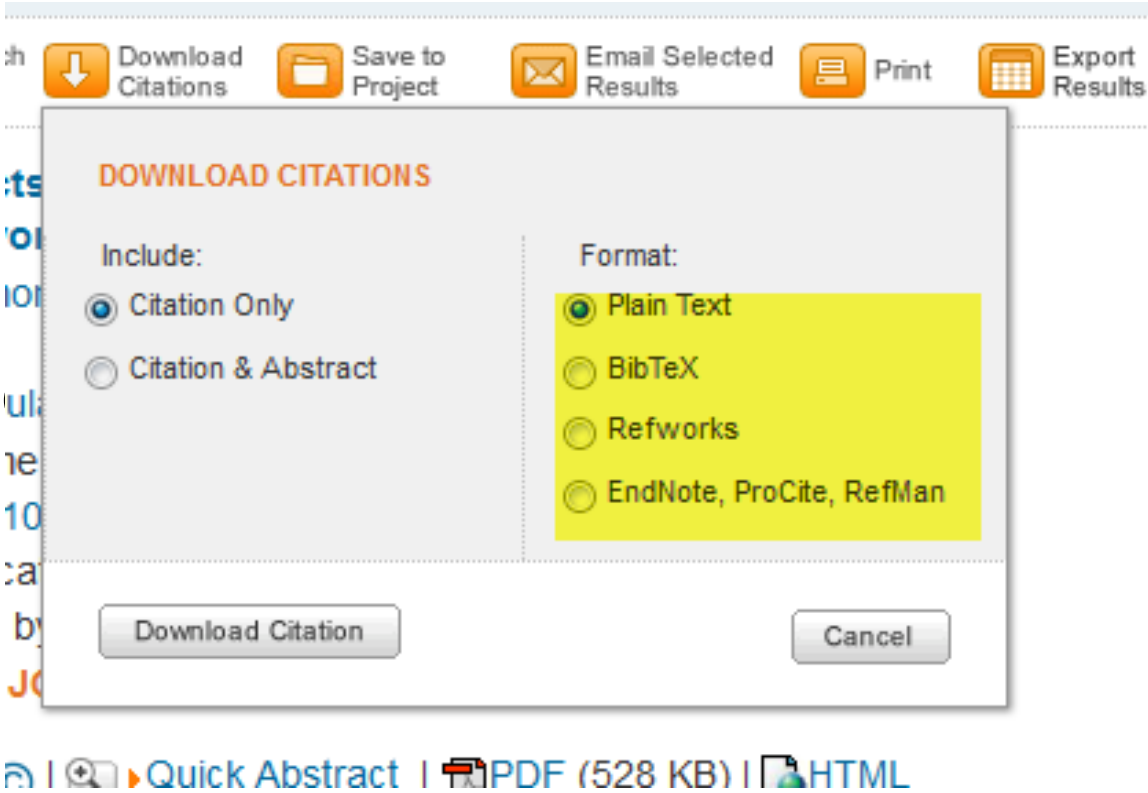

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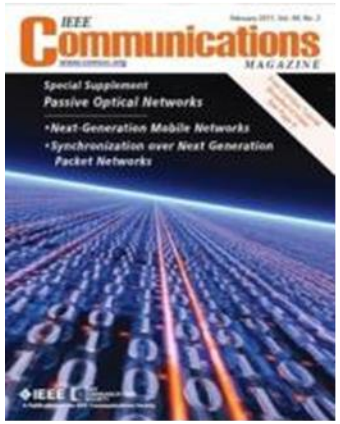

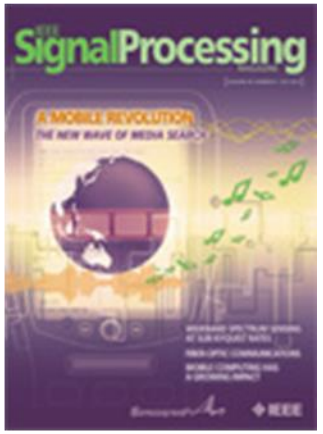

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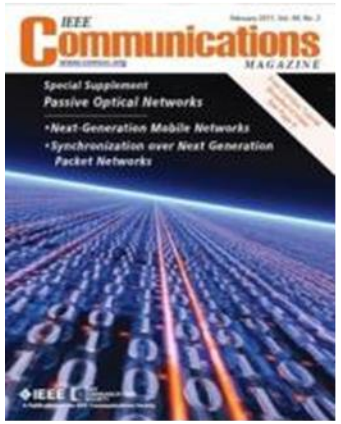

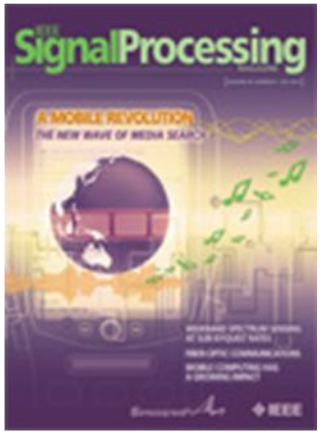

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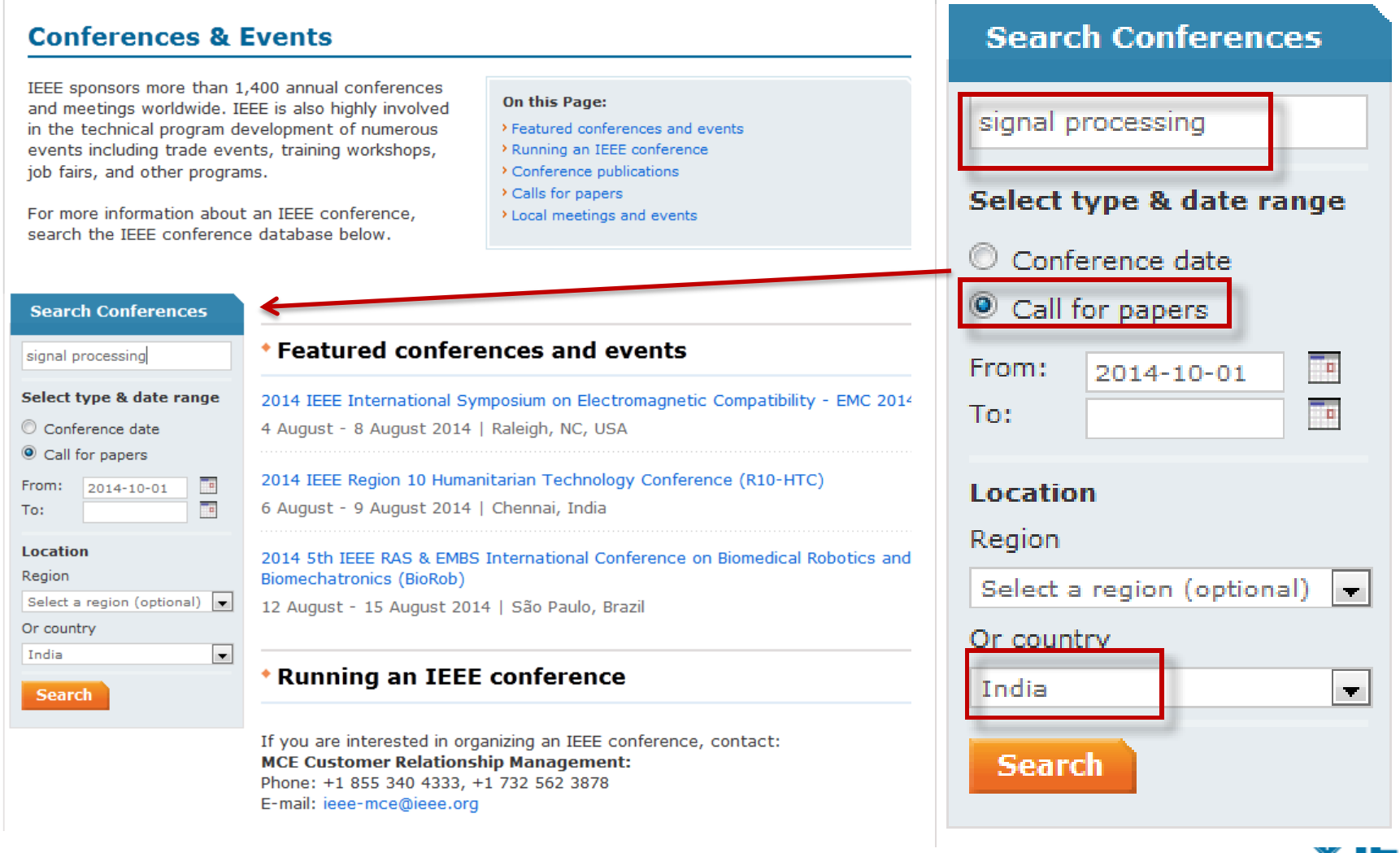

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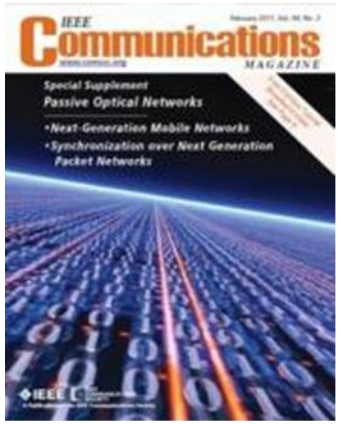

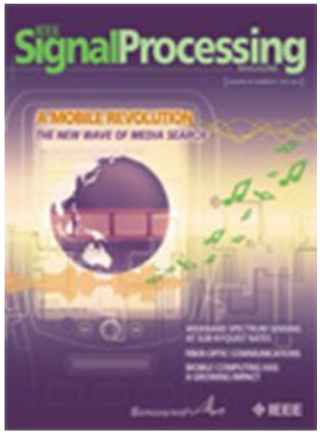

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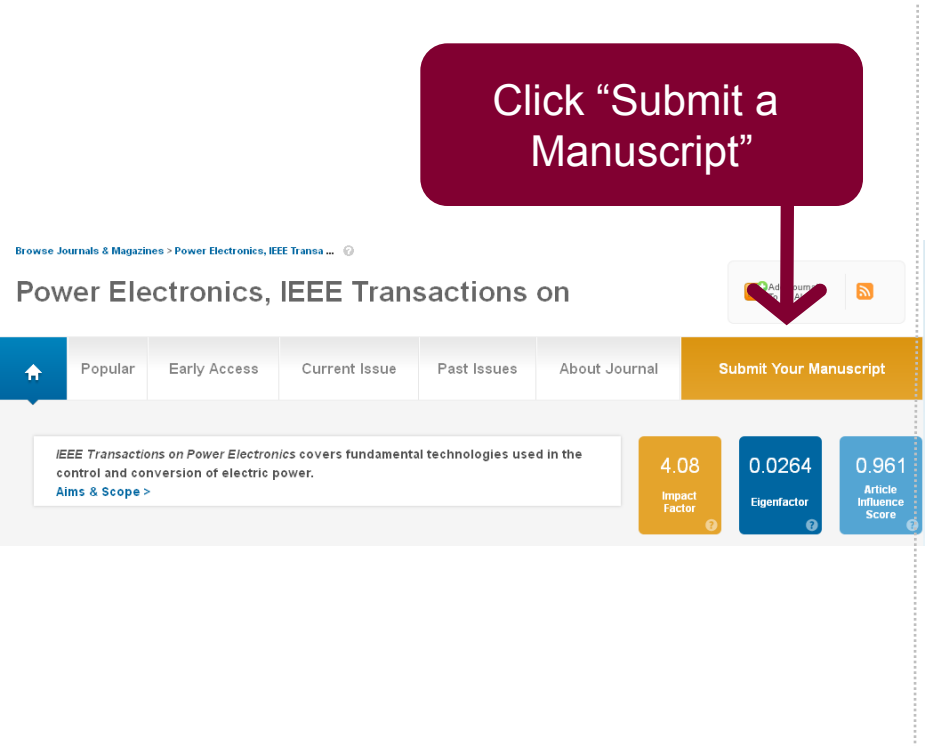

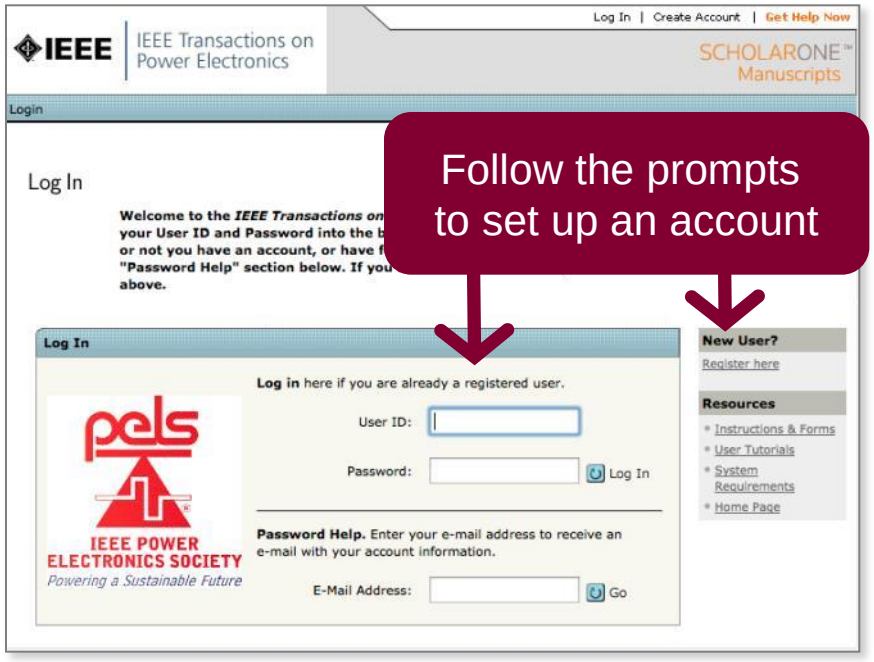

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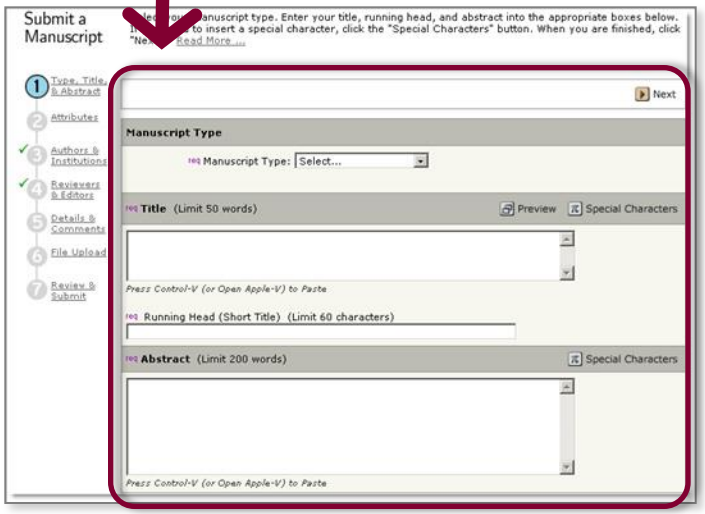

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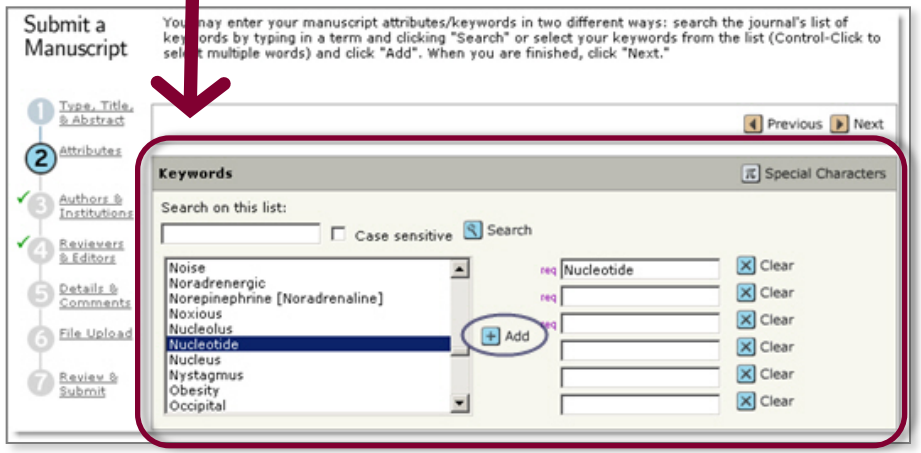

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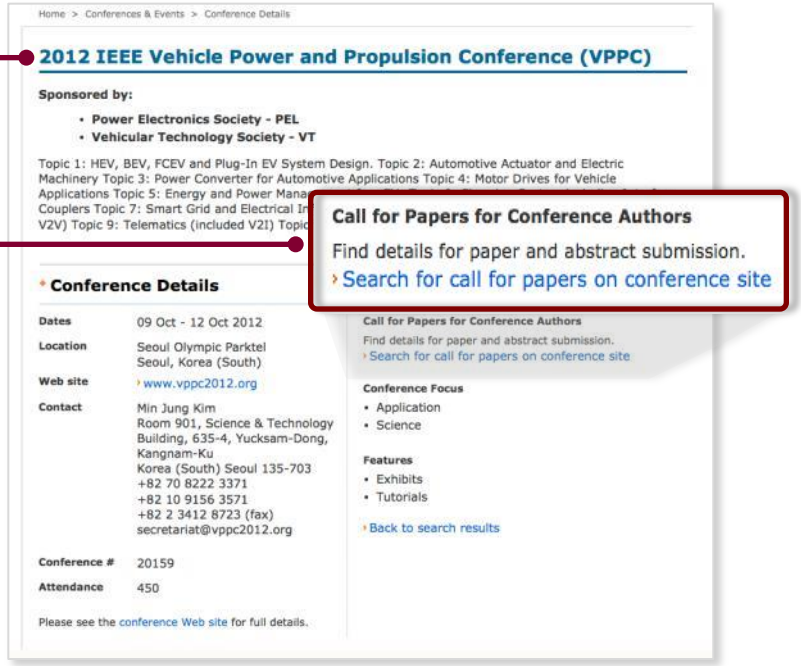

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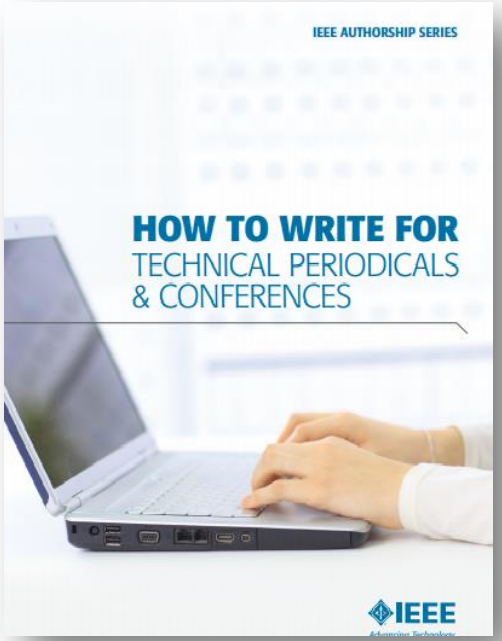

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