

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

Brasil, March 2017

Account Manager: Antonio Ribeiro, EBSCO
Account Manager: Renan Neves

Michael Shapiro
IEEE Client Services Manager, Latin America



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
 - Membership
 - Journals
 - Conferences
 - Standards
 - eBooks: 3 collections
 - Courses E- Learning, English
 - Innovation Q Plus: Patents



Mission statement:

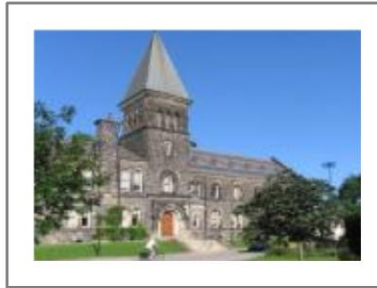
The core purpose of the IEEE is to foster technological innovation and excellence for the benefit of humanity.

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**

IEEE: Todas las áreas de la tecnología

(un recurso multi-disciplinario... mucho más que la ingeniería eléctrica)

Energías renovables

ESPACIO AEREO

Cine, video y
televisión

Redes inteligentes

óptica

Tecnologías de Información

Diseño

semiconductores

Ingeniería biomédica

Medicina

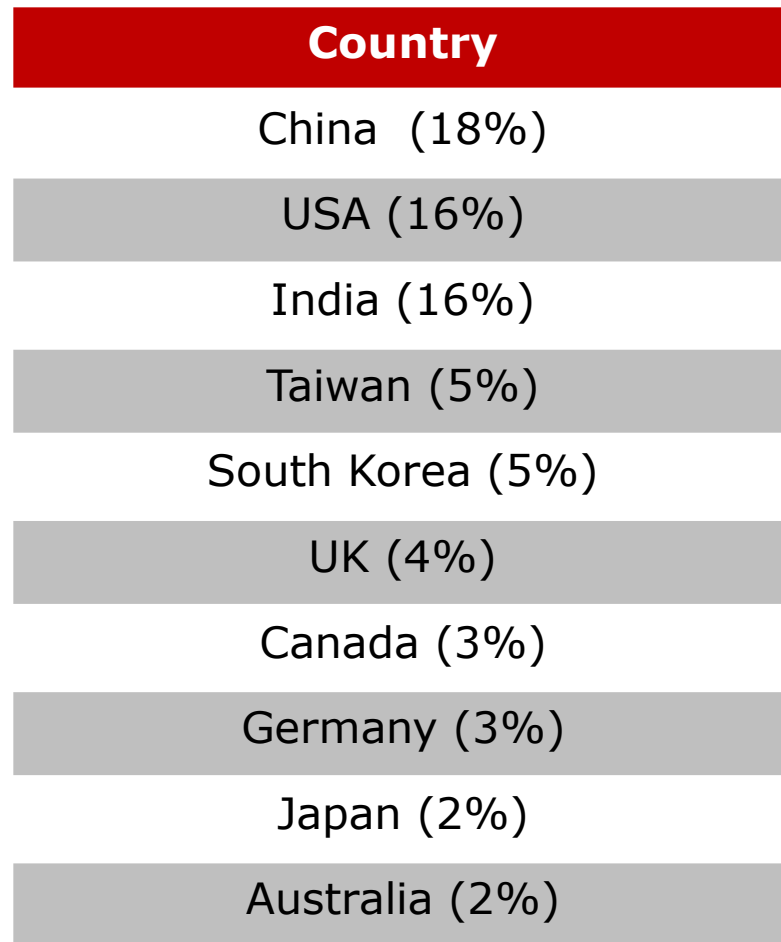
Agronomía

nanotecnología

Computación inalámbrica

Banda ancha

Número de descargas: IEEE Xplore



% of 103.9 million downloads

Biblioteca Digital IEEE Xplore: revisión profesional (“peer review”)

- Se somete todo documento a un proceso riguroso de revisión
- Asegura calidad de información
- Todos se benefician cuando la investigación es sólida, confiable, y coherente: autor y lector
- No siempre es el caso en otros sitios, blogs, noticias



"Membrecía" vs. Suscripción

La membrecía es Individual

- Formar parte de sociedades y grupos IEEE
- *Networking* y trabajos voluntarios
- Mantenerse al tanto de la innovación en su area y otros relacionados
- Disponer de recursos para su carrera
- Correo electrónico: tunombre@ieee.org
- La Revista Spectrum
- Descuentos en participación en conferencias/congresos

Las suscripciones son Institucionales y/o consortiales

- Acceso ilimitado a los documentos de la Biblioteca Digital Xplore para su institución: Conferencias, Revistas, Standards, etc.
- Herramienta fundamental para las investigaciones científicas-técnicas
- Visión panorámica de pensamiento y conocimiento

Conferencias y revistas: texto completo de las 39 sociedades de IEEE

IEEE Aerospace and Electronic Systems Society
IEEE Antennas and Propagation Society
IEEE Broadcast Technology Society
IEEE Circuits and Systems Society
IEEE Communications Society
IEEE Components, Packaging, and Manufacturing Technology Society
IEEE Computational Intelligence Society
IEEE Computer Society
IEEE Consumer Electronics Society
IEEE Control Systems Society
IEEE Dielectrics and Electrical Insulation Society
IEEE Education Society
IEEE Electron Devices Society
IEEE Electromagnetic Compatibility Society
IEEE Engineering in Medicine and Biology Society
IEEE Geoscience and Remote Sensing Society
IEEE Industrial Electronics Society
IEEE Industry Applications Society
IEEE Information Theory Society
IEEE Instrumentation and Measurement Society

IEEE Intelligent Transportation Systems Society
IEEE Magnetics Society
IEEE Microwave Theory and Techniques Society
IEEE Nuclear and Plasma Sciences Society
IEEE Oceanic Engineering Society
IEEE Photonics Society
IEEE Power Electronics Society
IEEE Power & Energy Society
IEEE Product Safety Engineering Society
IEEE Professional Communications Society
IEEE Reliability Society
IEEE Robotics and Automation Society
IEEE Signal Processing Society
IEEE Society on Social Implications of Technology
IEEE Solid-State Circuits Society
IEEE Systems, Man, and Cybernetics Society
IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
IEEE Vehicular Technology Society

Nuevas revistas: 2015, 2016, 2017

(2003 – 2014: 62 nuevas revistas) Todas incluidas en subscrip. IEL

2015






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

2016

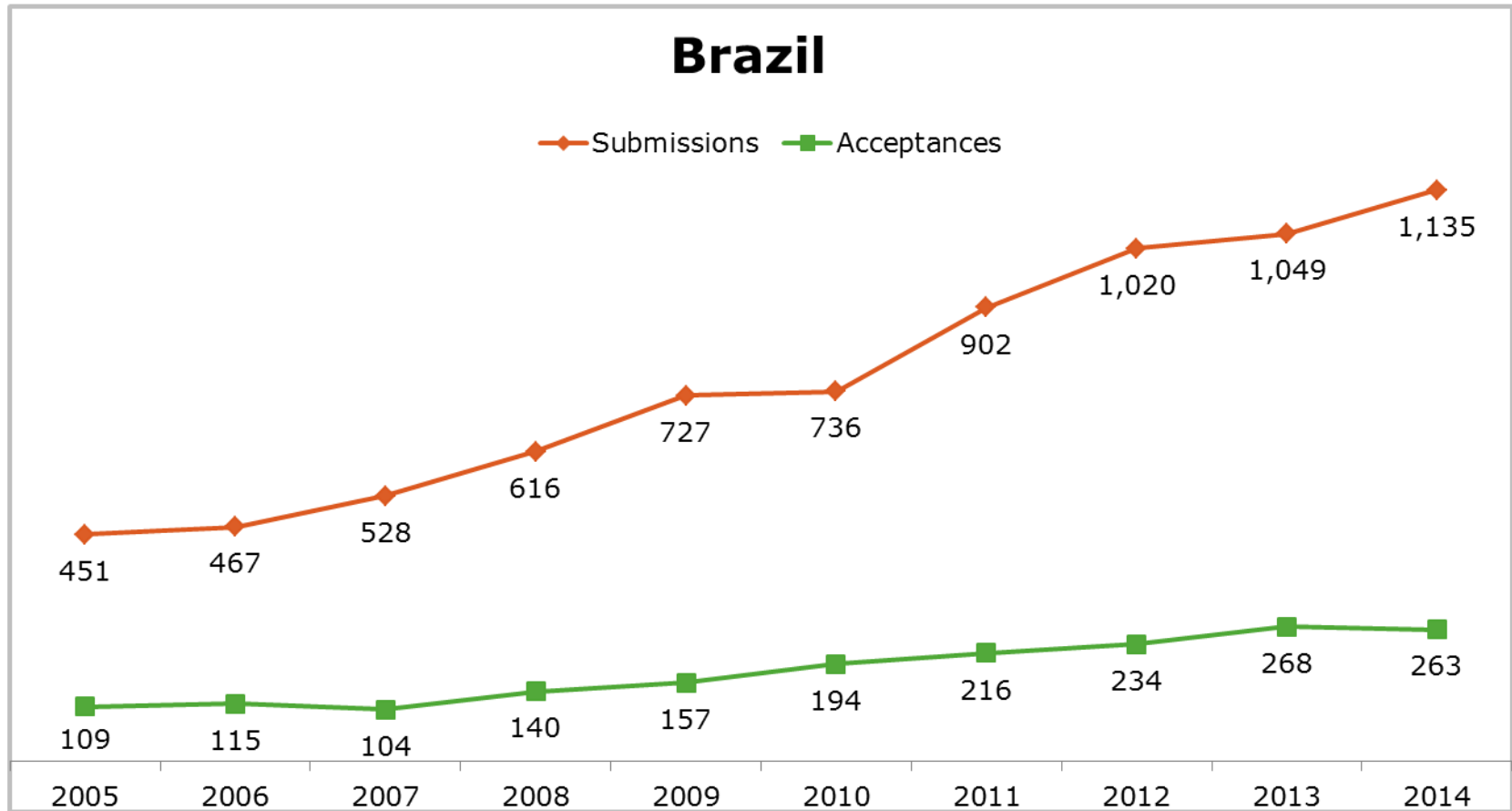
- *IEEE Transactions on Intelligent Vehicles*
- *IEEE Journal on Multi-scale and Multi-Physics Computational Techniques*
- *IEEE Robotics and Automation Letters*
- *IEEE Transactions on Sustainable Computing*

2017

- *IEEE Communications Standards Magazine*
- *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*
- *IEEE Transactions on Emerging Topics in Computational Intelligence*
- *IEEE Transactions on Green Communications and Networking*
- *IEEE Transactions on Radiation and Plasma Medical Sciences*
- *IEEE Journal of Radio Frequency Identification*

	México 	España 	Brasil 	Argentina 	Colombia 
Número de artículos de IEEE en IEEE Xplore: 2006	4,075 artículos en IEEE Xplore	18,541 artículos en IEEE Xplore	12,339 artículos en IEEE Xplore	1,101 artículos en IEEE Xplore	290 artículos en IEEE Xplore
Número de artículos de IEEE en IEEE Xplore: 2016	11,032 artículos en IEEE Xplore	59,102 artículos en IEEE Xplore	38,084 artículos en IEEE Xplore	3,537 artículos en IEEE Xplore	4,405 artículos en IEEE Xplore

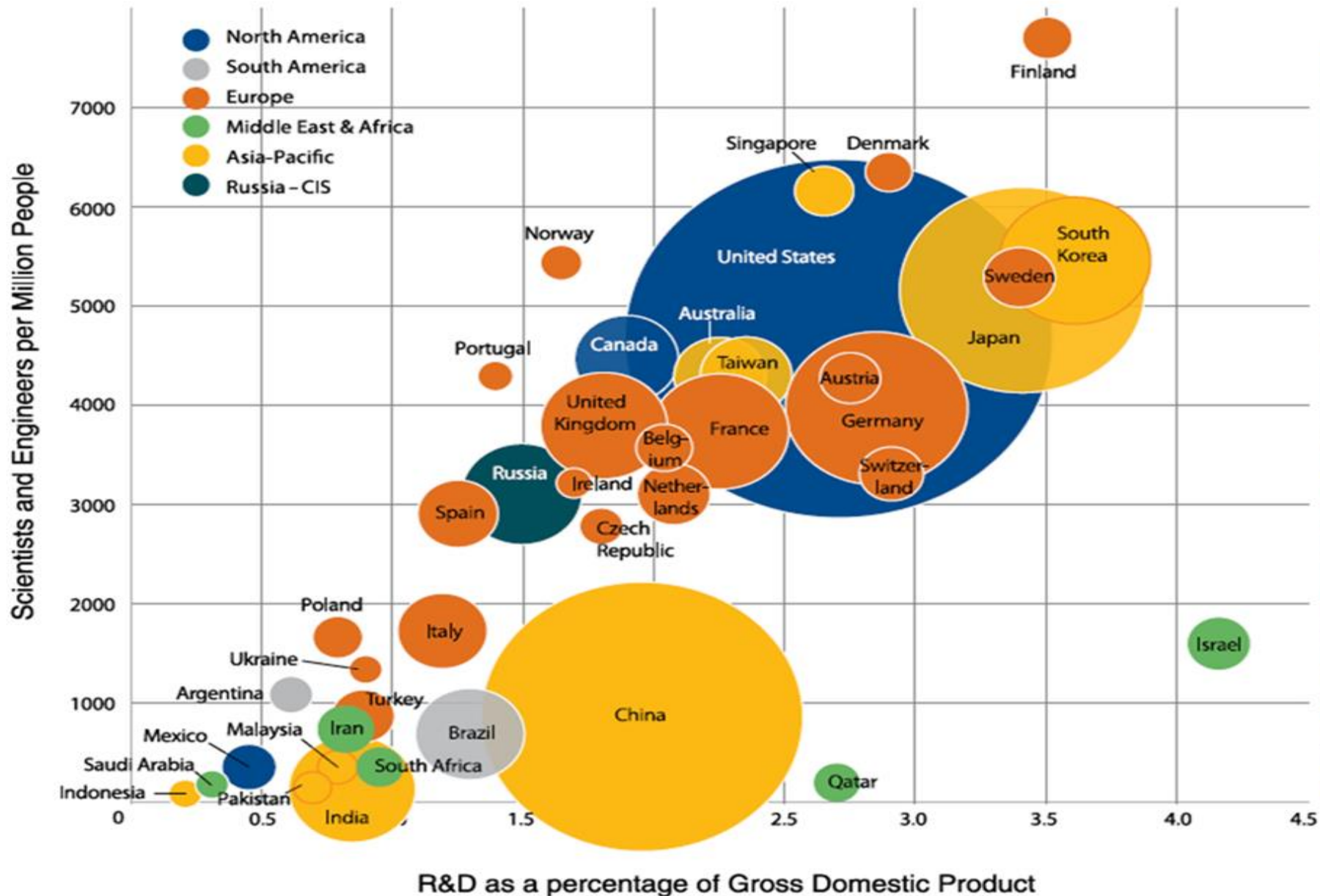
IEEE Journal Submissions and Acceptances Brazilian Authors (2005-2014)*



* Data as of Dec. 31 2014

WORLD OF R&D 2013

Size of circle reflects the relative amount of annual R&D spending by the indicated country



Acreditación de Facultades de Ingeniería (ABET, etc.)

- instrumentos que evalúan la calidad de diferentes facultades (ingeniería, ciencias computacionales, etc.) y sus respectivas instituciones
- Aseguran la “equivalencia substancial” entre diferentes programas e instituciones a nivel nacional e internacional
- Su suscripción de IEEE Xplore puede jugar un papel importante en la evaluación de acreditación

La suscripción IEEE IEL es un recurso imprescindible en el Siglo 21 para estudiantes, autores, investigadores, profesores, y la comunidad científica de un país o una institución

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

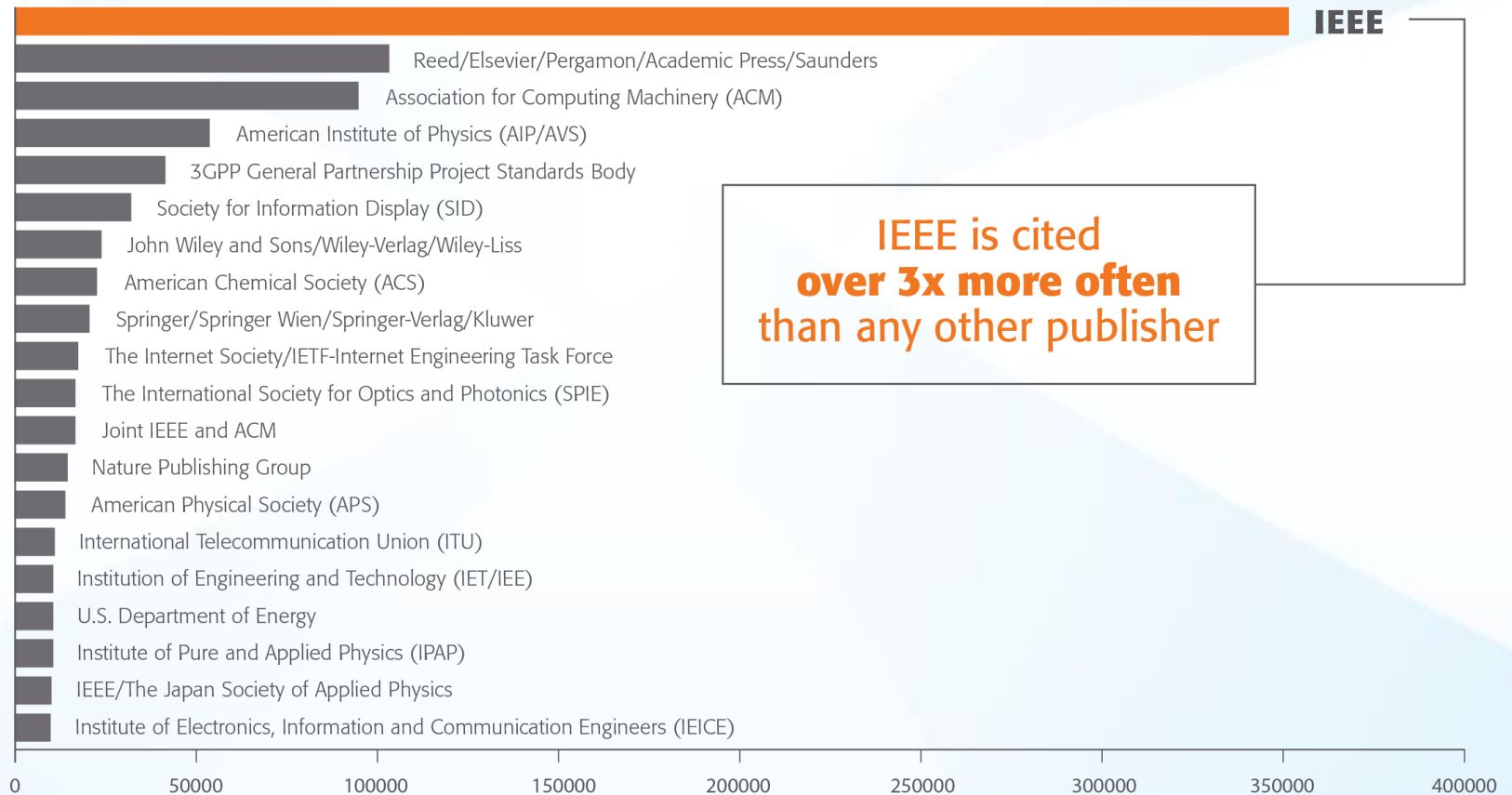
The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals.

Based on the 2014 study released June 2015

More info: www.ieee.org/citations

IEEE 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 Xplore: Ordenar sus resultados de búsqueda por los artículos más citados en patentes

FILTER THESE RESULTS

Search within results:

Search

- All Results
 Open Access

CONTENT TYPE

- Conference Publications (2,453,650)
 Books & eBooks (14,179)
 Early Access Articles (10,240)
 Standards (5,861)
 Education & Learning (374)

PUBLICATION YEAR

- Single Year Range



From:

To:

SEARCH RESULTS

You Refined by

Content Type: Journals & Magazines

Publisher: IEEE

840,616 Results returned

Results per page

Sort by:

Select All on Page | Deselect All

« First | 1 | 2 | 3 »



Set Search Alert



Download Citations



Save to Project



Email Selected Results

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

- A telemetry-instrumentation system for monitoring multiple subcutaneously implanted glucose sensors**

Shults, M.C. ; Rhodes, R.K. ; Updike, Stuart J. ; Gilligan, B.J. ; Reining, W.N.

Biomedical Engineering, IEEE Transactions on
Volume: 41 , Issue: 10

DOI: 10.1109/10.324525

Publication Year: 1994 , Page(s): 937 - 942

Cited by

IEEE JOURNALS & MAGAZINES



Quick Abstract | PDF (733 KB)

IEEE Xplore: Ordenar sus resultados de búsqueda por los artículos más citados en patentes

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- Publication Title Z - A

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IEEE JOURNALS & MAGAZINES



Quick Abstract | PDF (733 KB)

InnovationQ PLUS

POWERED BY IEEE AND IP.COM

**Programa Especializado en
Búsquedas, Innovación y Analítica
de Patentes**

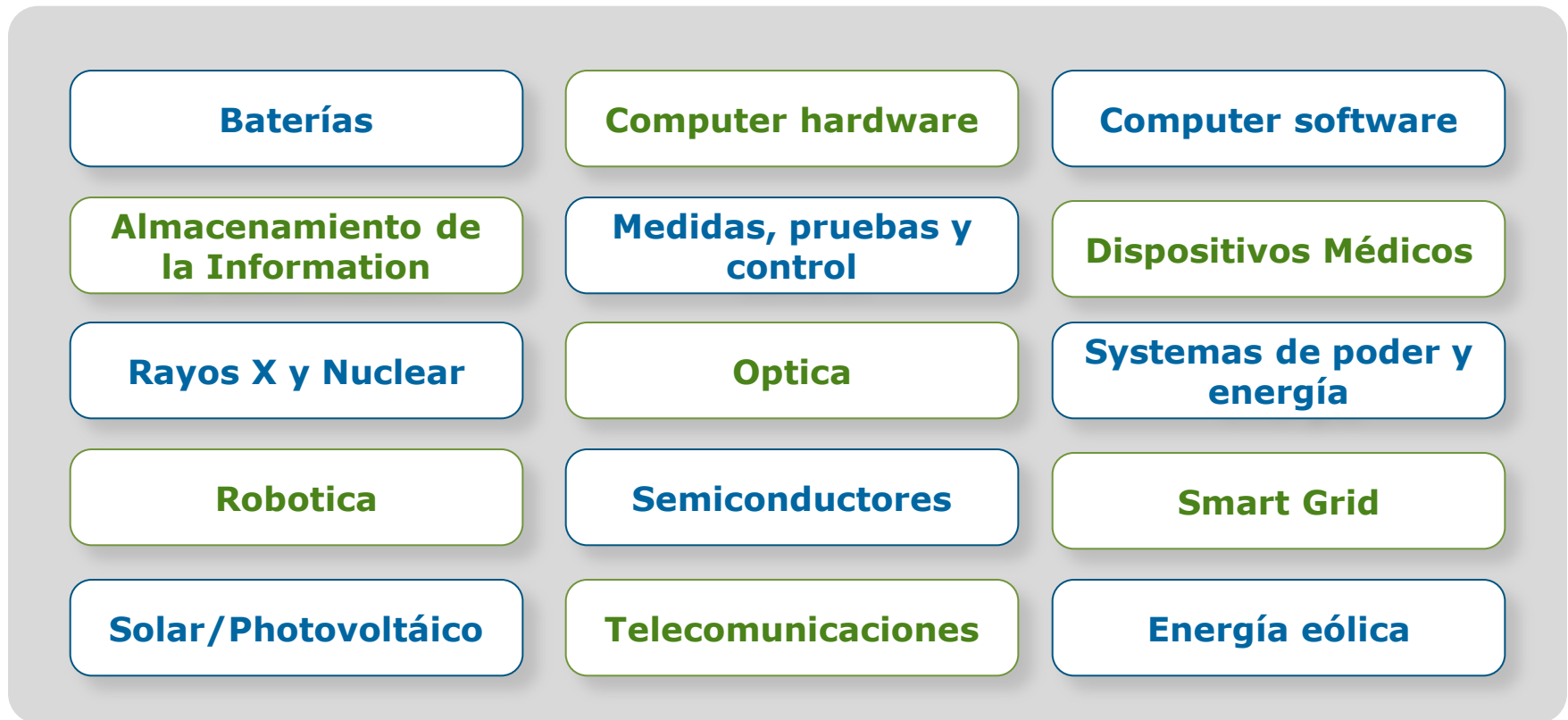


Una mini-lección sobre patentes

- Una patente tiene que ser:
 - **Util** = Una innovación patentable tiene que poder resolver un problema
 - **Novedosa** = Una innovación patentable tiene que resolver un problema de una forma nueva
 - **No obvia** = Una innovación patentable no puede ser obvia a una persona que trabaje en esta industria



Áreas tecnológicas de IEEE más citadas en patentes



Source: 1790 Analytics LLC 2015

Desafíos en la Búsqueda de Patentes

Cambiar eso...

Búsqueda:

ALL= (ubiquitous OR pervasive OR universal) AND resonant AND (((wireless OR microwave OR electromagnetic OR induction OR inductive) NEAR5 (power OR energy)) SAME (transmission OR trans*)) AND (remote OR distance*1) AND DP>=(19930101) AND IC=(H01L 39/02 OR H01L 39/12 OR H01F 38/14)

Lenguaje Natural

...a eso

Búsqueda:

Modes of ubiquitous, highly resonant wireless power transfer that are effective over long distances

Discover Unreturned Results Through InnovationQ Plus

Boolean:

Autonomous vehicle

Concept Search:

Autonomous vehicle

Car

Automobile

Driver

Truck

Robot

GPS

Transport

Satellite

Navigation

Network

Locomotive

Fuel

Transport

Route

Passenger

Brake

Engine

Accelerator

Van

Pilot

Self driving

Wheels

Tram

Train

Bus

Taxi

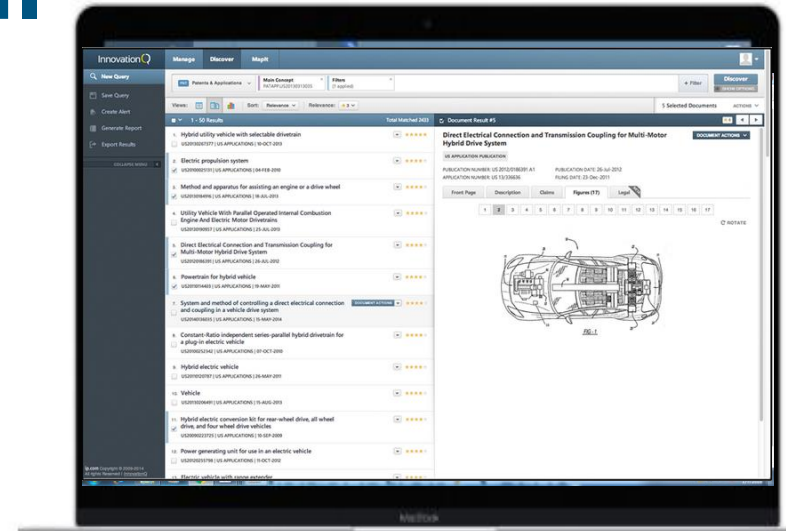
Analítica profesional

■ Plataforma de Búsqueda semántica

El motor patentado de búsquedas de IQ+ permite a los usuarios encontrar contenidos técnicos obfuscados para mejorar su productividad

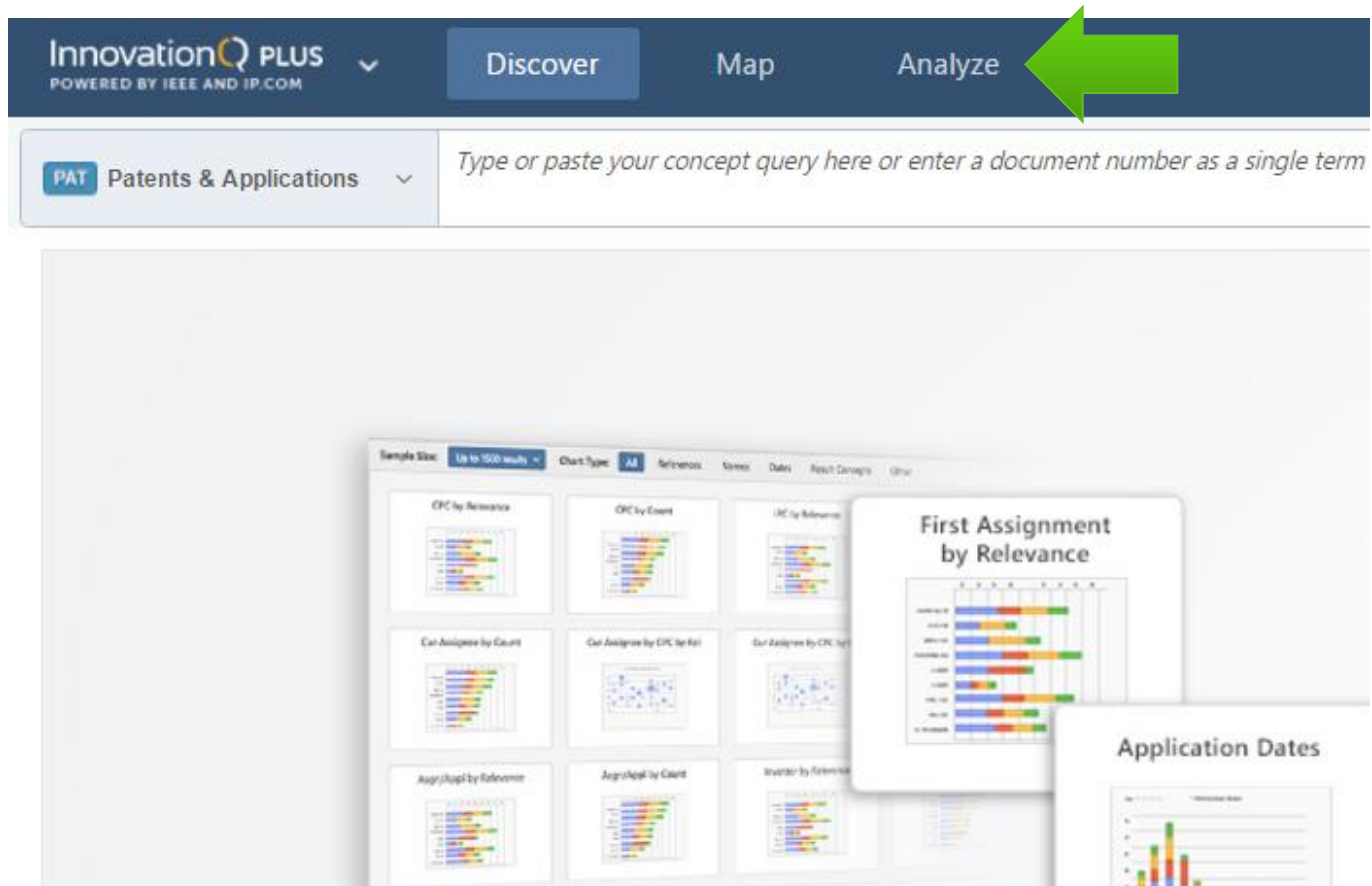
Conceptos Visualizados con MapIt

MapIt provee a los usuarios una representación gráfica de documentos críticos tanto de patentes y otras literaturas basados en los conceptos y significados extraídos. Esto ayuda a encontrar “espacios en blanco” a través de una visualización de los documentos más importantes.



“Workspaces”

InnovationQ Plus offers three workspaces:
Discover, Map and Analyze



Workspaces: Map Tool

Presents the IP landscape at a glance

The screenshot displays the Innovation PLUS Map Tool interface. At the top, there are navigation tabs for 'Discover', 'Map', and 'Analyze'. The 'Map' tab is active. Below the navigation, there is a search bar with the text 'Main Concept Text: A surgical cannula with curved segments used to g...'. To the right of the search bar are buttons for '+ Filter' and 'Map'. Below the search bar, there are dropdown menus for 'Actions: Query', 'Results', 'Sort: Relevance', and 'Cut-off: None'. A status bar indicates '0 Selected Documents'. The main area is a word cloud visualization of patent terms, with 'laparoscopic' and 'inflow' being prominent. On the right side, there is a 'Customize' panel with a dropdown menu set to 'Current Assignees by Total Count'. Below this is a table with columns for 'CURRENT ASSIGNEES', 'TOP RELEVANCE', and 'TOTAL COUNT'. The table lists various companies and their corresponding relevance and count. At the bottom right of the interface, there are buttons for 'Color Top 20' and 'Clear Colors', along with a help icon.

CURRENT ASSIGNEES	TOP RELEVANCE	TOTAL COUNT
TYCO HEALTHCARE GROU..	★ 3	97
INTUITIVE SURGICAL OPE..	★ 3	96
CAMBRIDGE ENDOSCOPL..	★ 3	55
CANNUFLOW INC	★ 3	33
SENORX INC	★ 3	27
WARSAW ORTHOPEDIC L..	★ 3	27
NICO CORP	★ 3	21
ETHICON ENDO SURGERY..	★ 3	20
ZIMMER SPINE INC	★ 3	18
DVL ACQUISITION SUB IN...	★ 3	17
ENDOEVOLUTION LLC	★ 3	17
ETHICON INC	★ 3	16
INTUITIVE SURGICAL INC	★ 3	16
INNOV SPINE LLC	★ 3	15
RUBICOR MEDICAL INC	★ 3	15
COOK MEDICAL TECH LLC	★ 3	14

Discover: Visualizations

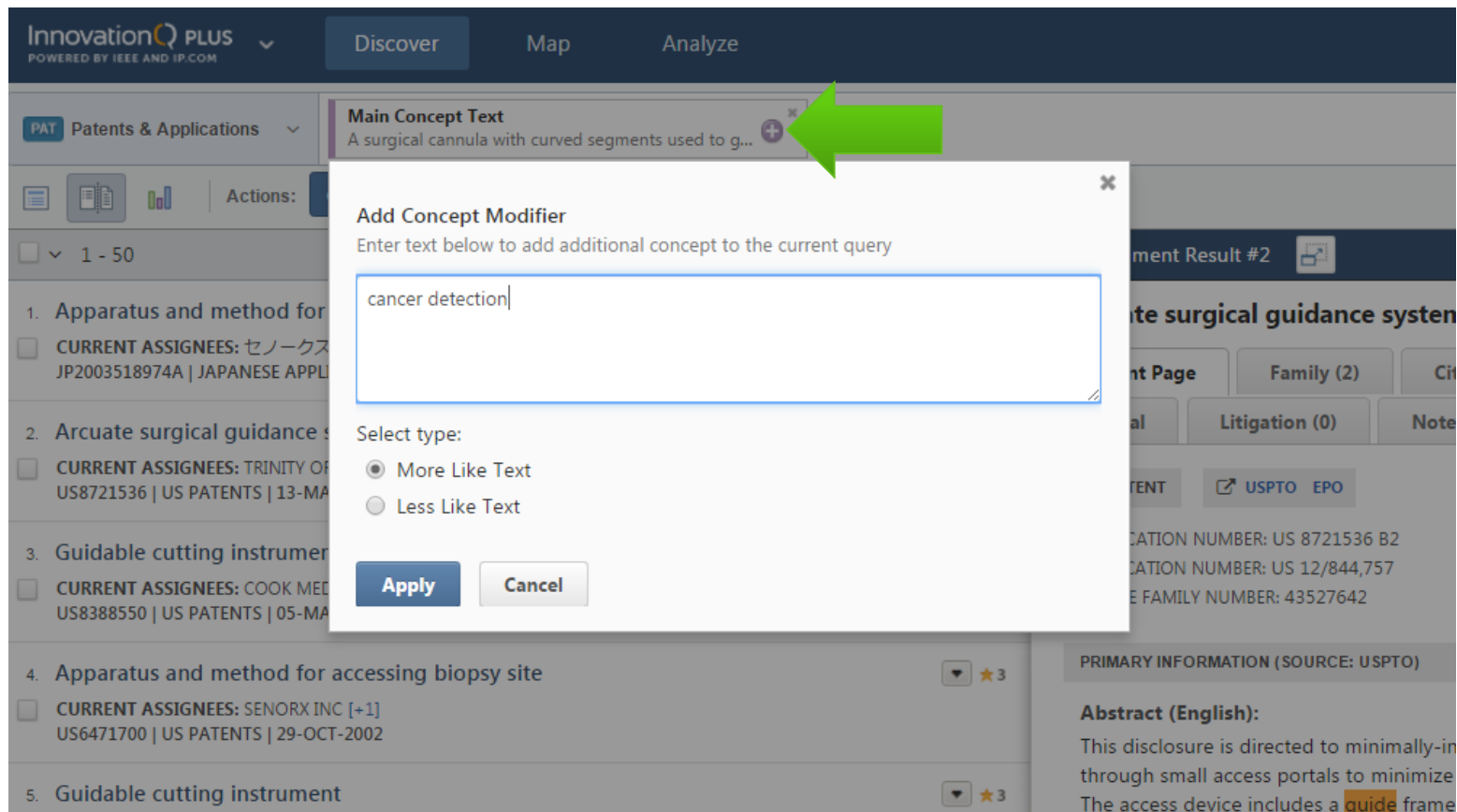
The screenshot displays the 'Discover' interface of Innovator Plus. The top navigation bar includes 'Discover', 'Map', and 'Analyze'. The main search area shows a query for 'Main Concept Text' with the snippet 'A surgical cannula with curved se...'. The interface is configured with 'Sample Size: Top 1500 results' and 'Chart Type: All'. Below the navigation, there are ten visualization options arranged in a 2x5 grid:

- CPC by Relevance
- CPC by Count
- IPC by Relevance
- IPC by Count
- Cur Assignee by Relevance
- Cur Assignee by Count
- Cur Assignee by CPC by Rel
- Cur Assignee by CPC by Cnt
- Cur Assignee by IPC by Rel
- Cur Assignee by IPC by Cnt

Each visualization is represented by a small thumbnail image showing a bar chart or a bubble chart. A large green arrow points to the 'Discover' button in the top left corner of the interface.

Add Concept Modifiers

Add terms and phrases to your concept and refine result set with "More Like This" and "Less Like This"



The screenshot shows the Innovation PLUS interface with the 'Discover' tab selected. A search result for 'Main Concept Text' is visible, with a green arrow pointing to a plus icon next to the text. An 'Add Concept Modifier' dialog box is open, prompting the user to enter text to add to the current query. The text 'cancer detection' is entered in the input field. Below the input field, there are two radio buttons: 'More Like Text' (selected) and 'Less Like Text'. At the bottom of the dialog box, there are 'Apply' and 'Cancel' buttons.

Discover: Content Coverage

Over 92 million patents and applications from 40 authorities

The screenshot displays the 'Discover' interface with a modal window for 'Query Results'. The modal has two tabs: 'Collections' and 'Query Results'. Below the tabs are links for 'CHECK ALL', 'CLEAR ALL', and 'VIEW COVERAGE'. The main content area is divided into four columns, each with a checked checkbox and a category name: 'North America', 'Europe', 'Asia', and 'Other'. Each category lists specific patent types and applications for that region, all with checked checkboxes. At the bottom of the modal is a checkbox labeled 'Save as defaults for this group'. Below the modal are 'Apply' and 'Cancel' buttons. The background shows a sidebar with 'Innovation PLUS' branding and a 'Discover' button.

North America

- US Patents
- US Designs
- US Applications
- Canadian Patents
- Canadian Applications

Europe

- European Patents
- European Applications
- French Patents
- French Applications
- German Patents
- German Applications
- Great Britain Patents
- Great Britain Applications
- Netherlands Patents
- Netherlands Applications
- Luxembourg Patents
- Denmark Patents
- Denmark Applications
- Finnish Patents
- Finnish Applications
- Sweden Patents
- Sweden Applications
- Switzerland Patents
- Switzerland Applications

Asia

- Chinese Patents
- Chinese Applications
- Indian Patents
- Indian Applications
- Japanese Patents
- Japanese Applications
- Korean Patents
- Korean Applications
- Taiwanese Patents
- Taiwanese Applications

Other

- Australian Patent Documents
- Brazil Patents
- Brazil Applications
- Russian Patents
- Russian Applications
- WIPO Applications

Save as defaults for this group

Apply **Cancel**

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
 - Journals and conference proceedings are included in IEL subscriptions – over 200,000 articles!
- IEEE *Xplore* now hosts select content from other leading society publishers:
 - IBM Journal of Research and Development
 - Tsinghua Science and Technology Journal
 - Journal of Systems Engineering and Electronics from the Beijing Institute of Aerospace Information
 - VDE Conference Proceedings
 - Bell Labs Technical Journal
 - IEEE-Wiley eBooks Library
 - MIT Press Journals and eBooks Library
 - Morgan & Claypool*

* Available in select markets



And 3 Leading eBooks Collections now in IEEE Xplore

■ IEEE-Wiley eBooks Library

- More than 700 eBook titles from the Wiley-IEEE Press
- Backfile to 1974



■ MIT Press eBooks Library-Computing & Engineering Collection

- Nearly 600 eBook titles from the MIT Press with a focus on computer science
- Backfile to 1943



■ Morgan & Claypool Synthesis eBooks Library*

- Access nearly 700 peer-reviewed titles focusing on computer science
- Backfile to 2006



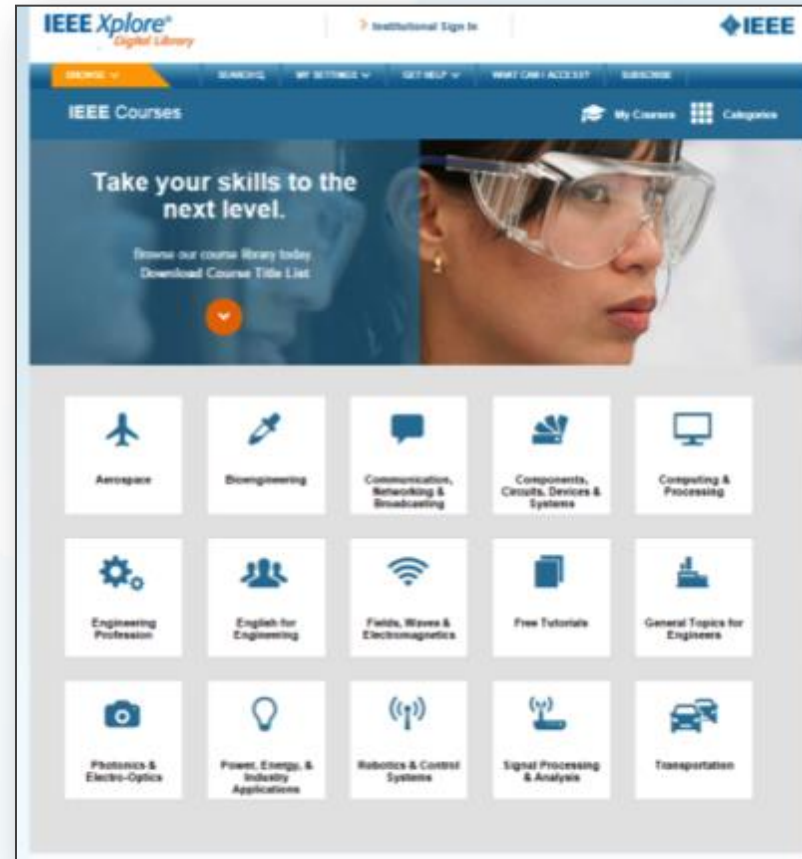
New front list titles and perpetual access options available for all

* Available in select markets

IEEE eLearning Library Now in IEEE Xplore

All eLearning content now delivered via IEEE Xplore

- Over 400 interactive courses
- Seamless authentication using existing IEEE Xplore credentials.
- Access all the powerful features of IEEE Xplore
- Same great content with many new courses in 2014/2015 on hot topics such as cloud computing.
- Courses are **peer-reviewed**, updated and developed by experts.
 - Courses range from 1-3 hours in length
 - Subscription and perpetual access options



Now available as Course Series Packages



Cloud Computing

34 courses in all

- Cloud Security and Data Protection
- Cloud Construction
- Cloud Software as a Service
- 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



Fundamentals for Technical Professionals

9 courses in all

- 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

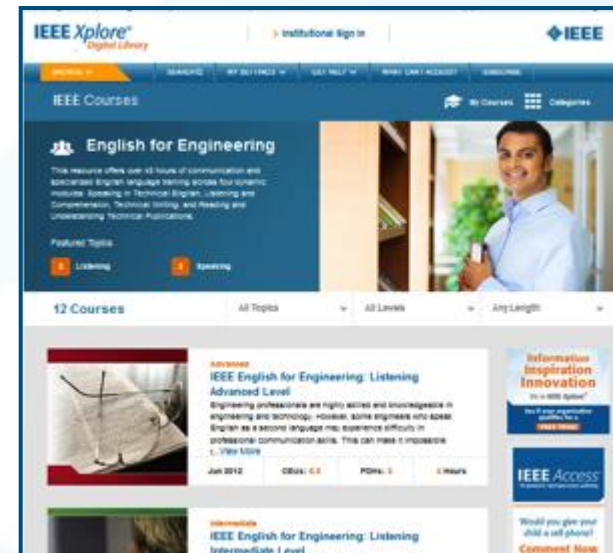
- Transportation Electrification: Appl. of Electric Drive Trains
- Transportation Electrification: Electric Machines in Electric Drive Trains
- Transportation Electrification: Intro. to Power Electronics in Electric Drive Trains
- Transportation Electrification: Power Semiconductors Used in Electric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

IEEE English for Engineering

Now also available in IEEE Xplore

Develop the communications skills and knowledge engineers need to succeed:

- Develop key skills:
 - Speaking in technical English
 - Listening and comprehension
 - Technical writing
 - Reading and understanding
- More than 45 hours of training content in a dynamic and interactive online learning experience
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- Excellent for self-study, or easily adaptable for group training
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“Noticieero” Publicación de la Región 9 en América Latina (<http://sites.ieee.org/r9/>)

The IEEE Latin America and the Caribbean Magazine

noticieero

Volume 31, Number 4, Jul/Aug 2016 [102] ISSN 2157-8354
English | Portuguese | Spanish

#102

**Student Contest:
Deadlines
extended!**

**Actividades en
IEEE Sección
Paraguay**

**Reunión Regional
de Ramas
2016**

Nomination of Candidates for the IEEE-
R9 Director Elect 2018-2019 position

IEEE
Advancing Technology
for Humanity

**TEMS Chapters – IEEE Trinidad and
Section (IEEEtt)'s Report**

Ramas Estudiantiles IEEE

Invitado especial: Prof. Heyder Páez Logreira, Barranquilla, Colombia

Cada Rama Estudiantil está compuesto de un mínimo de doce (12) miembros IEEE estudiantiles

- Llevar la misión, los beneficios, y las oportunidades de IEEE a sus miembros estudiantiles;
- Patrocinar actividades profesionales y humanitarias
- Competencias



Today's Author Workshop

Topics Covered

1. **Publishing choices**
2. **Choose an Audience**
3. **Paper Structure**
4. **Ethics**
5. **Where to Publish**
6. **Open Access**
7. **Impact Factor**
8. **Next Steps**



Choices

Finding Collaborators

- Decide if you want to “go it alone”
- Look for others whose skills may differ from yours: writing, research, technical
- Geography doesn't matter
- Your friends may or may make the best collaborators
- Looks for people who are reliable, don't invite headaches
- Think of collaborations as an opportunity to grow and network (whose work you respect?)

Publish

IEEE journal or IEEE conference?

- A **journal article** is a fully developed presentation of your work and its final findings
 - Original research results presented
 - Clear conclusions are made and supported by the data
- A **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

Publish

IEEE journal or IEEE conference?

IEEE Journals



- IEEE journals are cited 3 times more often in patent applications than other leading publisher's journals



- A high percentage of articles submitted to any professional publication are rejected

IEEE Conferences

- IEEE Conference proceedings are recognized worldwide as the most vital collection of consolidated published articles in EE, computer science, related fields
- Per IEEE Policy, if you do not present your article at a conference, it may be suppressed in IEEE *Xplore* and not indexed in other databases

Contenidos en IEEE Xplore: Punto de vista del autor

Revistas: Presentación de resultados acabados

- El estado del arte:
 - Magazines
 - Journals & Transactions
 - Letters



Conferencias:

- -Enfoque: Aplicaciones específicas y “feedback” (comentarios)
- -Resultados preliminares, en proceso
- -Desarrollo de comunidades con tecnologías emergentes
- -Más de 2.7 millones de documentos



Contenido en IEEE Xplore: Punto de vista del investigador



Revistas: Presentación de resultados acabados

- El estado del arte:
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Normas (*Standards*)

- Un ciclo:
 - Publicados y activos
 - Borradores
 - Activos
 - Archivados
 - Retirados
 - Redline, etc.

	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 Sight
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

- La más conocida, 802.11 (comunicación inalámbrica)

Otros contenidos:

- eBooks (3 colecciones)
 - IEEE-Wiley
 - MIT Press
 - Morgan & Claypool
- Cursos: eLearning and English for Engineering
- Revistas de MIT Press, IBM
- InnovationQ Plus

Disponibles como complementos

Publish

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Audience

Why IEEE editors and reviewers reject papers

- The content is not a good fit for the publication
- There are serious scientific flaws:
 - Inconclusive results or incorrect interpretation
 - Fraudulent research
- It is poorly written
- It does not address a big enough problem or advance the scientific field
- The work was previously published
- The quality is not good enough for the journal
- Reviewers have misunderstood the article

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

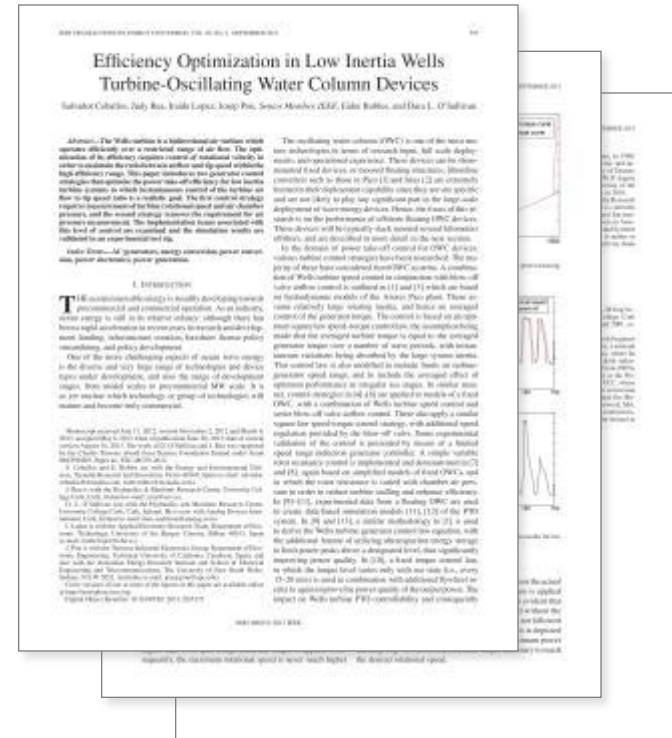
Introduction

Methodology

Results/Discussions/Findings

Conclusion

References



Paper Structure

Title

An effective title should...

- Answer the reader's question:
"Is this article relevant to me?"
- Grab the reader's attention
- Describe the content of a paper using the fewest possible words
 - Is crisp, concise
 - Uses keywords
 - Avoids jargon

Good
Title

VS.

Bad
Title

Paper Structure

Good vs. Bad Title

A Human Expert-based Approach to Electrical Peak Demand Management

VS

A better approach of managing environmental and energy sustainability via a study of different methods of electric load forecasting

Paper Structure

Abstract

A “stand alone” condensed version of the article

- No more than 250 words; written in the past tense
- Uses keywords and index terms

Why they're useful & important & move the field forward

Why you did it

What you did

How the results were useful, important & move the field forward

Good vs. Bad Abstract

The objective of this paper was to propose a human expert-based approach to electrical peak demand management. The proposed approach helped to allocate demand curtailments (MW) among distribution substations (DS) or feeders in an electric utility service area based on requirements of the central load dispatch center. Demand curtailment allocation was quantified taking into account demand response (DR) potential and load curtailment priority of each DS, which can be determined using DS loading level, capacity of each DS, customer types (residential/commercial) and load categories (deployable, interruptible or critical). Analytic Hierarchy Process (AHP) was used to model a complex decision-making process according to both expert inputs and objective parameters. Simulation case studies were conducted to demonstrate how the proposed approach can be implemented to perform DR using real-world data from an electric utility. Simulation results demonstrated that the proposed approach is capable of achieving realistic demand curtailment allocations among different DSs to meet the peak load reduction requirements at the utility level.

Vs

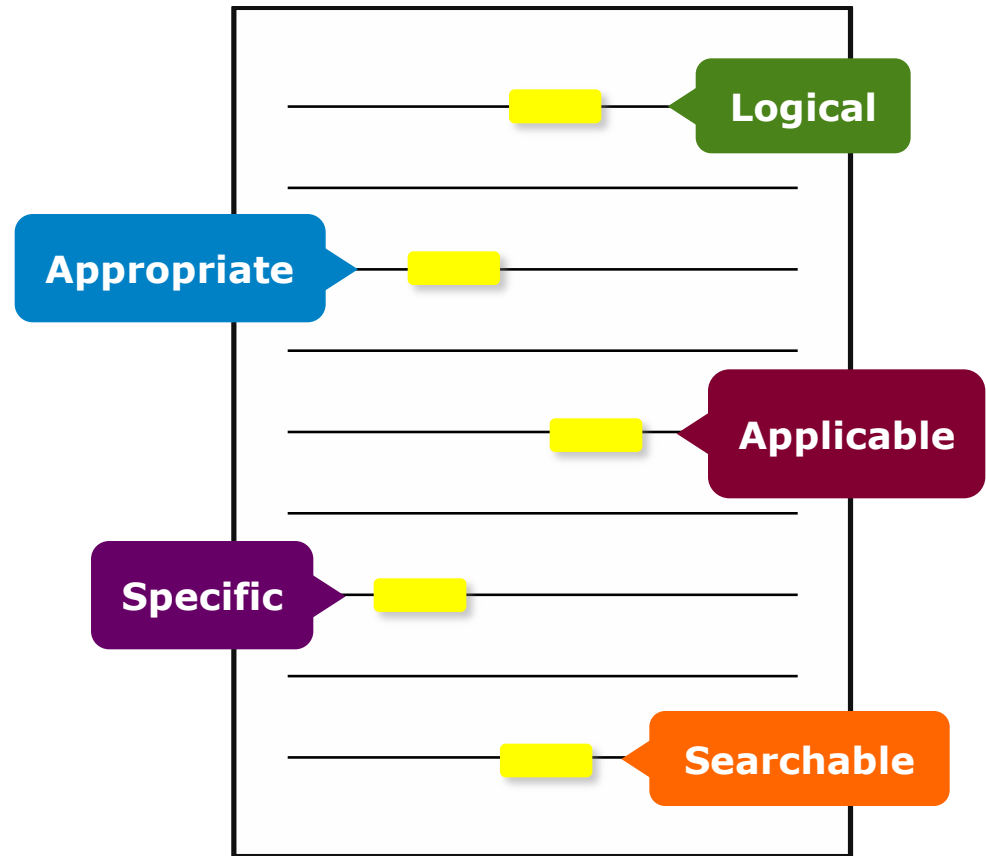
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe** a way to administer and execute the capstone design experience including design workshops and lead engineers. **We describe the importance** in assessing the capstone design experience and report recent assessment results of our framework. **We comment** specifically on what students thought were the most important aspects of their experience in engineering capstone design and provide quantitative insight into what parts of the framework are most important.

First person, present tense

No actual results, only describes the organization of the paper

Paper Structure Keywords

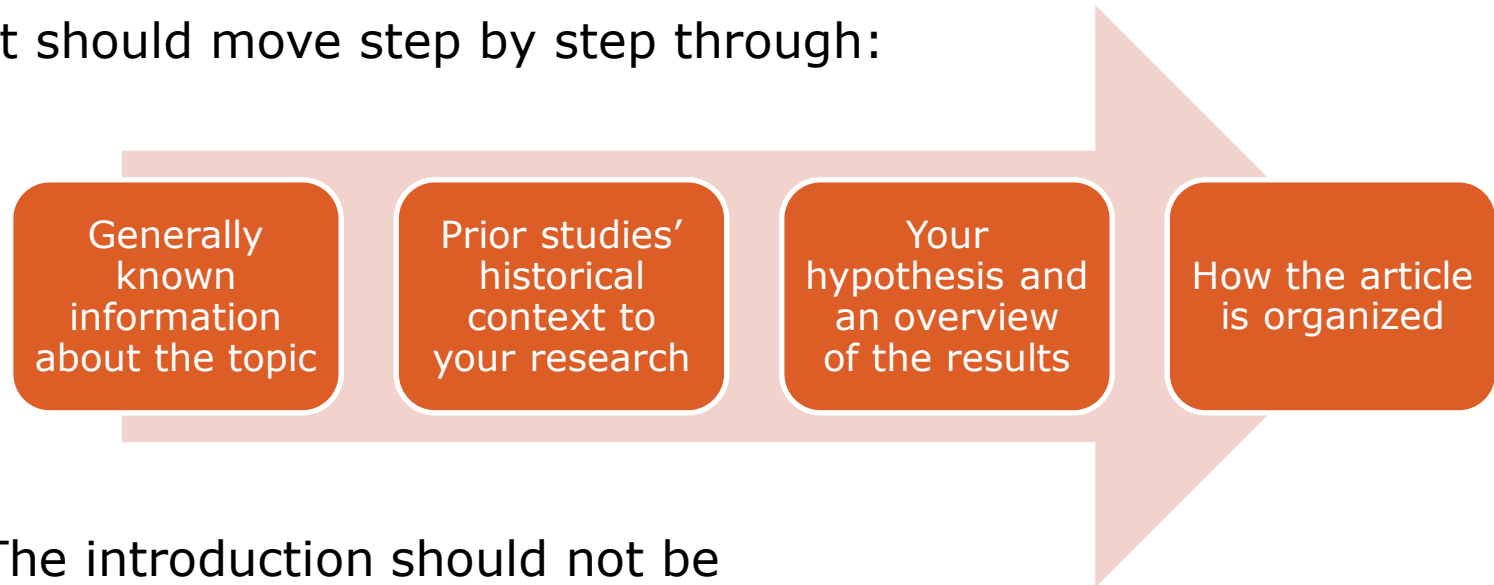
Use in the Title and
Abstract for enhanced
Search Engine Optimization



Paper Structure

Introduction

- A description of the problem you researched
- It should move step by step through:



- The introduction should not be
 - Too broad or vague
 - More than 2 pages
 - Written in the present tense

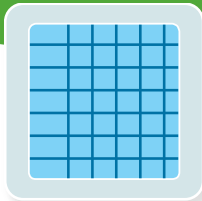
Paper Structure

Methodology

- Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis
- Use illustrations to clarify ideas, support conclusions:

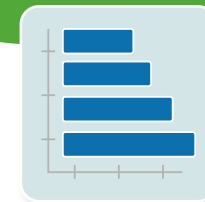
Tables

Present representative data or when exact values are important to show



Graphs

Show relationships between data points or trends in data



Figures

Quickly show ideas/conclusions that would require detailed explanations



Paper Structure

Results/discussion

Demonstrate that you solved the problem or made significant advances

Discussion

Results: Summarized Data

- Should be clear and concise
- Use figures or tables with narrative to illustrate findings

Discussion: Interprets the Results

- Why your research offers a new solution
- Acknowledge any limitations

the SC algorithm over the whole range of w values increase to 3–4 K, except for the TIGR₁₊₁₁ database, with an RMSE of 2 K. This last result is explained by the w distribution, which is biased toward low values of w in this database. When only atmospheric profiles with w values lower than $3 \text{ g} \cdot \text{cm}^{-2}$ are selected, the SC algorithm provides RMSEs around 1.5 K, with almost equal values of bias and standard deviation, around 1 K in both cases (with a negative bias, thus the SC underestimates the LST). In contrast, when only w values higher than $3 \text{ g} \cdot \text{cm}^{-2}$ are considered, the SC algorithm provides RMSEs higher than 5 K. In these cases, it is preferable to calculate the atmospheric functions of the SC algorithm directly from (3) rather than approximating them by a polynomial fit approach as given by (4).

V. DISCUSSION AND CONCLUSION

The two Landsat-8 TIR bands allow the intercomparison of two LST retrieval methods based on different physical assumptions, such as the SC (only one TIR band required) algorithms (two TIR bands required). Direct inversion of the transfer equation, which can be considered a “ground-truth” algorithm, is assumed to be a “ground-truth” algorithm because the information about the r and L_s is accurate enough. The SC algorithm in this letter is a combination of the previous SC algorithm developed for Landsat-4 and Landsat-5 TM sensors, and the ETM+ sensor on board the Landsat-7 platform [9], and it could be used to generate consistent LST products from the historical Landsat data using a single algorithm. An advantage of the SC algorithm is that, apart from surface emissivity, only water vapor content is required as input. However, it is expected that errors on LST become unacceptable for high water vapor contents (e.g., $> 3 \text{ g} \cdot \text{cm}^{-2}$). This problem can be partly solved by computing the atmospheric functions directly from r , L_s , and L_w values (see [5]), or also by including the air temperature as input [15]. A main advantage of the SW algorithm is that it performs well over global conditions and, thus, a wide range of water vapor values; and that it only requires water vapor as input (apart from surface emissivity at the two TIR bands). However, the SW algorithm can be only applied to the new Landsat-8 TIRS data, since previous TM/ETM sensors only had one TIR band.

The LST algorithms presented in this letter were tested with simulated data sets obtained for a variety of global atmospheric conditions and surface emissivities. The results showed RMSE values of typically less than 1.5 K, although for the SC algorithm, this accuracy is only achieved for w values below $3 \text{ g} \cdot \text{cm}^{-2}$. Algorithm testing also showed that the SW errors are lower than the SC errors for increasing water vapor, and vice versa, as demonstrated in the simulation study presented in Sobrino and Jimenez-Munido [18]. Although an extensive validation exercise from *in situ* measurements is required to assess the performance of the two LST algorithms, the results obtained for the simulated data, the sensitivity analysis, as well as the previous findings for algorithms with the same mathematical structure give confidence in the algorithm accuracies estimated here.

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Results

Paper Structure

Conclusion

- Explain what the research has achieved
 - As it relates to the problem stated in the Introduction
 - Revisit the key points in each section
 - Include a summary of the main findings, important conclusions and implications for the field
- Provide benefits and shortcomings of:
 - The solution presented
 - Your research and methodology
- Suggest future areas for research



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We then have

$$\begin{aligned} (P_1^{h+} + P_1^{h-})^2 &= (P_1^{h+} - P_1^{h-})^2 + 4P_1^{h+}P_1^{h-} \\ &< (P_1^{h+} - P_1^{h-})^2 + 4P_1^{h+}P_1^{h-} \\ &= (P_1^{h+} + P_1^{h-})^2 \end{aligned} \quad (32)$$

Since $P_1^{h+} - P_1^{h-} = P_1^{h+} - P_1^{h-}$, we then have $P_1^{h+} < P_1^{h+}$, and $P_1^{h-} < P_1^{h-}$. Because the operational cost is an increasing function of $\{P_1^{h+}, P_1^{h-}\}$, we obtain that

$$c_{opt}(\{P_1^{h+}, P_1^{h-}\}) < c_{opt}(\{P_1^{h+}, P_1^{h-}\}). \quad (33)$$

Therefore the optimal pair $\{P_1^{h+}, P_1^{h-}\}$ cannot satisfy that $P_1^{h+}P_1^{h-} = 0$, i.e., only one of P_1^{h+}, P_1^{h-} can be non-zero. ■

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 - Redline, etc.
- Best known IEEE Standard, 802.11 (wireless communication)

	802.11	802.11a	802.11e
Spectrum	10 - 66 GHz	2 - 11 GHz	<6 GHz
Configuration	Line of Sight	Non- Line of Sight	Non- Line of Sight
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 802.11a
Mobility	Fixed	Fixed	<75 MPH
Channel Bandwidth	20, 25, 28 MHz	Selectable	5 MHz (Planned)
Typical Cell Radius	1-3 miles	3-5 miles	1-3 miles
Completed	Dec, 2001	Jan, 2003	2nd Half of 2005

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The vector field histogram-fast obstacle avoidance for mobile robots

Borenstein, J. ; Koren, Y.
Robotics and Automation, IEEE Transactions on
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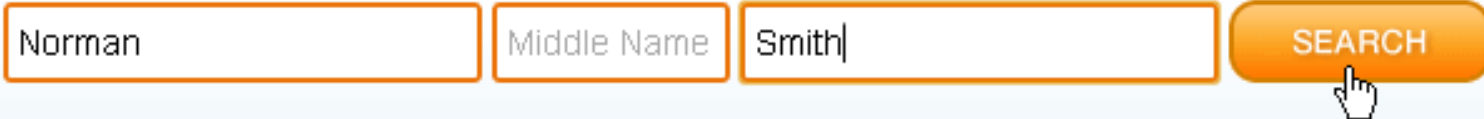
The Impact of Charging Plug-In Hybrid Electric Vehicles on a Residential Distribution Grid

Clement-Nyns, K. ; Haesen, E. ; Driesen, J.
Power Systems, IEEE Transactions on
Volume: 25 , Issue: 1
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The effects of signal layer positions in multi-layer PCB designs 

Jun Fan ; Knighten, J.L. ; **Smith**, N.W. ; Alexander, R. ; Dressier, D.

Electromagnetic Compatibility, 2002. EMC 2002. IEEE International Symposium on

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1. Cadambe, V.R.; Jafar, S.A. "Interference Alignment and Degrees of Freedom of the -User Interference Channel", *Information Theory, IEEE Transactions on*, On page(s): 3425 - 3441 Volume: 54, Issue: 8, Aug. 2008
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2. Kim, D.; Torlak, M. "Optimization of Interference Alignment Beamforming Vectors", *Selected Areas in Communications, IEEE Journal on*, On page(s): 1425 - 1434 Volume: 28, Issue: 9, December 2010
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3. Chatzinotas, S.; Ottersten, B. "Cognitive interference alignment between small cells and a macrocell", *Telecommunications (ICT), 2012 19th International Conference on*, On page(s): 1 - 6
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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  

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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:

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Grant Date:

October 11, 2011

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2- IEEE Trans. Commun.



[3- Microstrip antennas with frequency agility and polarization diversity](#)



4- A reconfigurable leaky-wave/patch microstrip aperture for phased-array applications



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6- Design of reconfigurable slot antennas

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[DIVERSITY MEASUREMENTS OF A RECONFIGURABLE ANTENNA WITH SWITCHED POLARIZATIONS AND PATTERNS](#)

Poussot, B., Laheurte, J.-M., Cirio, L., Picon, O., Delcroix, D., Dussopt, L.,
[Antennas and Propagation, IEEE Transactions on](#), Volume: 56 [Issue: 1](#), Jan. 2008
On page(s): 31 - 38

Abstract

A reconfigurable parasitic patch array is designed to provide polarization and pattern diversities. The performance of the device is predicted using a commercial simulator including a pin diode modelling and an optimization procedure of the switched loads based on an equivalent flow graph. Measurements of the correlation factor and the diversity gain in an indoor environment are performed with a dedicated platform for two orientations of the antenna.

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Volume: 58 , Issue: 1
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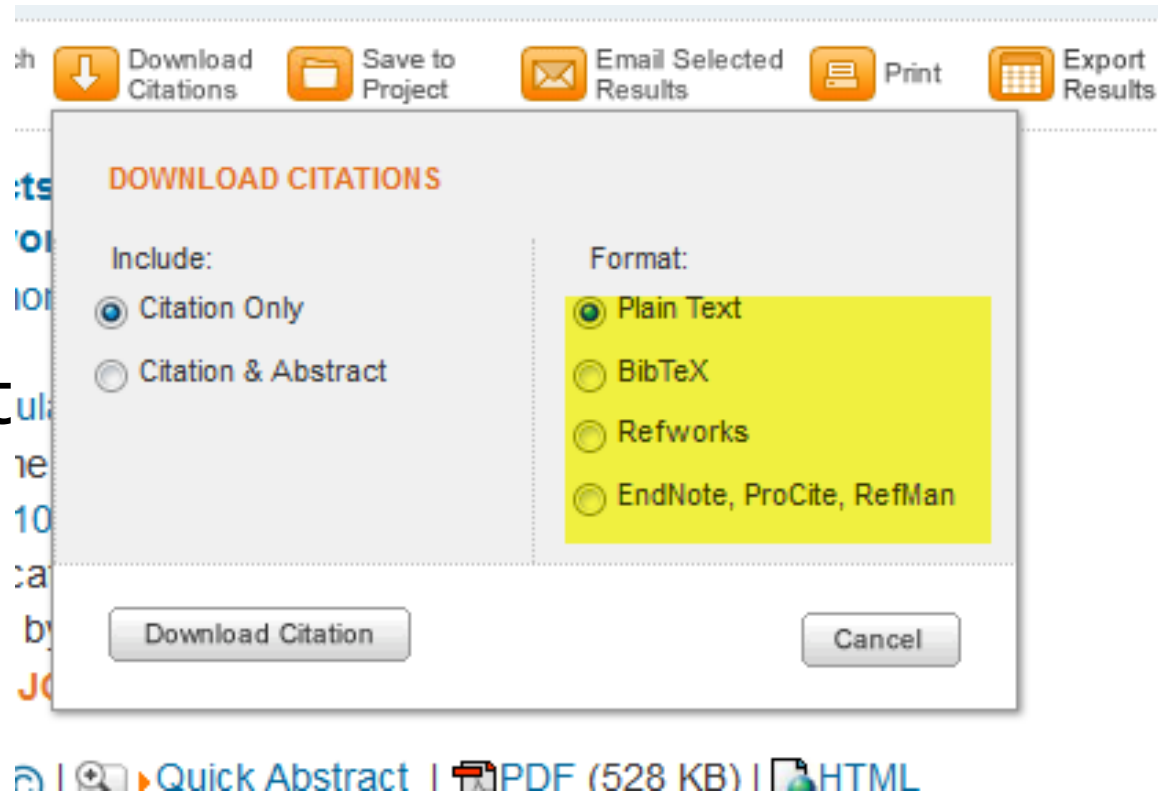
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Intrusion detection techniques in mobile ad hoc and wireless sensor networks

Bo Sun ; Osborne, L. ; Yang Xiao ; Guizani, S.
Wireless Communications, IEEE
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8	Secure and resilient clock synchr	Kun Sun; Peng Ning; C	Dept. of Comput. Sci., N	Selected Areas in Communica	Feb. 2006	2006	24
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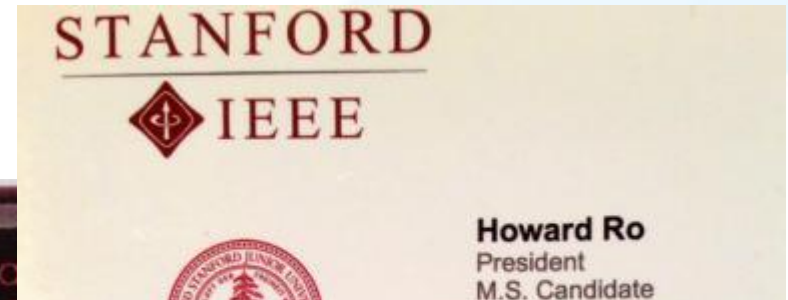
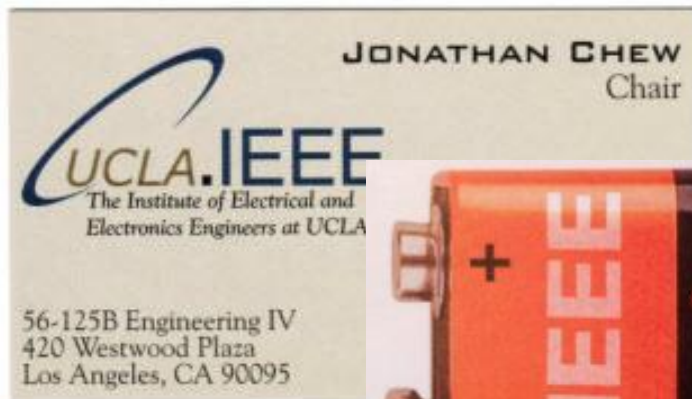
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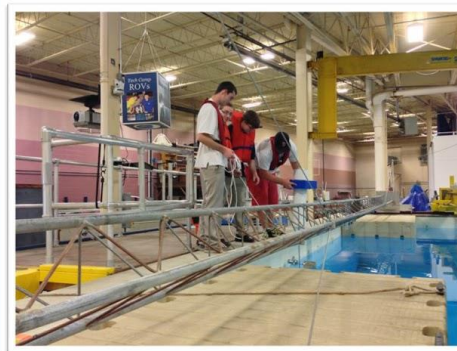


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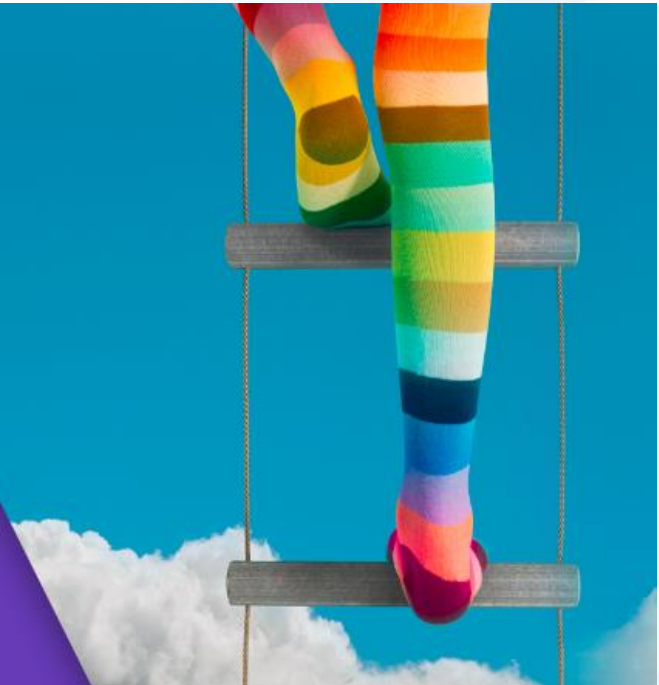
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IEEE Charles LeGeyt Fortescue Fellowship: This scholarship carries a stipend of approximately **US\$24,000** and is awarded to a first-year graduate student obtaining his or her master's degree in Electrical Engineering at an engineering school of recognized standing located in the United States.

IEEE Computational Intelligence Society Conference Travel Grant: This program offers a number of **travel grants** to assist IEEE Student members in presenting papers at IEEE NNS (Neural Networks Society) sponsored conferences.

IEEE Computational Intelligence Society Summer Research Grant: This program offers scholarships of **US\$1,000 to US\$4,000** for deserving graduate students who need financial support for their research during a summer.

IEEE Computer Society Merwin Scholarship: This scholarship recognizes and rewards active leaders in the IEEE Computer Society Student Branch Chapters. Up to **20 US\$2,000 scholarships** are available and awarded on an annual basis.

IEEE Dielectrics and Electrical Insulation Society Graduate Student Fellowship: This fellowship was designed to support graduate research in the area of insulation or dielectrics. **Two US\$7,500 or three US\$5,000** scholarships are awarded annually.

IEEE Electron Devices Society Graduate Student Fellowship: This fellowship promotes, recognizes, and **supports graduate-level study and research** in the field of EDS, with at least one fellowship awarded to students in each of the major geographic regions: Americas, Europe/Mid-East/Africa, Asia/Pacific.

IEEE Life Members' Fellowship in Electrical History: This fellowship in the history of electrical science and technology at a college or university of recognized standing, or up to one year of post-doctoral research for a scholar in this field who has received his or her Ph.D. within the past three years. The **stipend is US\$17,000, and a research budget of US\$3,000 is available.**

IEEE Life Member Graduate Study Fellowship in Electrical Engineering: This **renewable US\$10,000 fellowship** is awarded annually to a first-year, full-time graduate student obtaining his or her master's degree for work in the

♦ IEEE Societies Offering Grants



Below are some of the grants offered by IEEE Societies that are designated for Student Members only. To apply, you will need to follow the appropriate link to obtain eligibility and applications.

- › IEEE Circuits and Systems Society
- › IEEE Computational Intelligence Society
- › IEEE Communications Society
- › IEEE Information Theory Society
- › IEEE Instrumentation & Measurement Society
- › IEEE Microwave Theory and Techniques Society
- › IEEE Nuclear and Plasma Sciences Society
- › IEEE Power Electronics Society
- › IEEE Signal Processing Society
- › IEEE Solid-State Circuits Society

* Some scholarships not available to international students

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[2014 IEEE Region 10 Humanitarian Technology Conference \(R10-HTC\)](#)
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