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Eszter Lukács
IEEE Client Services Manager
Europe



**Peter the Great St. Petersburg State Polytechnic
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About the IEEE

- A not-for-profit society
- World's largest technical membership association with over 415,000 members in 160 countries
- Five core areas of activity
 - Publishing
 - Conferences
 - Standards
 - Membership
 - E-learning



IEEE's Mission

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity

Career Development Resources and Opportunities for student members

IEEE Job Sites and Career Alerts

- ❑ Locate career opportunities easily and confidentially
- ❑ Weekly email newsletter containing career advice

IEEE Xplore

- ❑ Learn to use IEEE Xplore for company, career, and job related searches

Awards, Fellowships & Scholarships

- ❑ Recognizes the accomplishments of IEEE members
- ❑ Enhance your resume with an IEEE award

Conferences

- ❑ Networking and Presenting Opportunities
- ❑ Student Paper Contests

Education Partners Program (EPP-IEEE)



IEEE Job Site FEATURED JOBS

Senior Research
Athlone, Ireland
Ericsson Ireland

Electrical Engineer
Palmetto, FL
ITW GSE Group -
Trilectron

**Electromagnetic
Research Scientist**
Champaign, IL
SAIC

**Automation/Controls
Engineer (Robotics)**
Carlsbad, CA 92008
Callaway Golf
Company

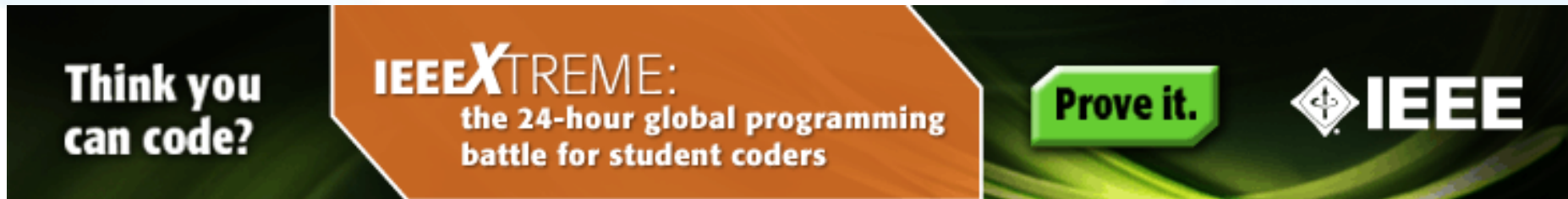
Aerospace Engineer
Hampton, VA
SAIC

**Cost Engineer/Cost
Manager**
Washington, DC
20560-0908
Smithsonian
Institution

**Staff Equipment
Engineer**
Santa Clara, CA
95128
Affymetrix, Inc.



Prestigious Student Competitions



Worldwide, 24-hour programming challenge
for IEEE Student Branches

Teams of student members, advised and proctored
by an IEEE Member, compete in a 24-hour time span against each
other to solve a set of programming problems.

Top prize is a trip
anywhere in the world
to the IEEE event of the top team's choice!

Teams registered in 2013:

1,838

IEEE covers all areas of technology

More than just electrical engineering & computer science

MACHINE LEARNING **BIG DATA**
OPTICS RENEWABLE ENERGY
SEMICONDUCTORS **SMART GRID**
IMAGING NANOTECHNOLOGY
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Full text content from all 38 IEEE Societies

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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

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IEEE Geoscience and Remote Sensing Society

IEEE Industrial Electronics Society

IEEE Industry Applications Society

IEEE Information Theory Society

IEEE Instrumentation and Measurement Society

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IEEE Microwave Theory and Techniques Society

IEEE Nuclear and Plasma Sciences Society

IEEE Oceanic Engineering Society

IEEE Photonics Society

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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



IEEE quality makes an impact

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IEEE publishes:

19 of the top 20 journals in Electrical and Electronic Engineering

18 of the top 20 journals in Telecommunications

7 of the top 10 journals in Automation & Control Systems

6 of the top 10 journals in Computer Science, Hardware & Architecture

4 of the top 5 journals in Cybernetics

3 of the top 5 journals in Artificial Intelligence

2 of the top 5 journals in Robotics

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Based on the 2013 study released June 2014

More info: www.ieee.org/citations

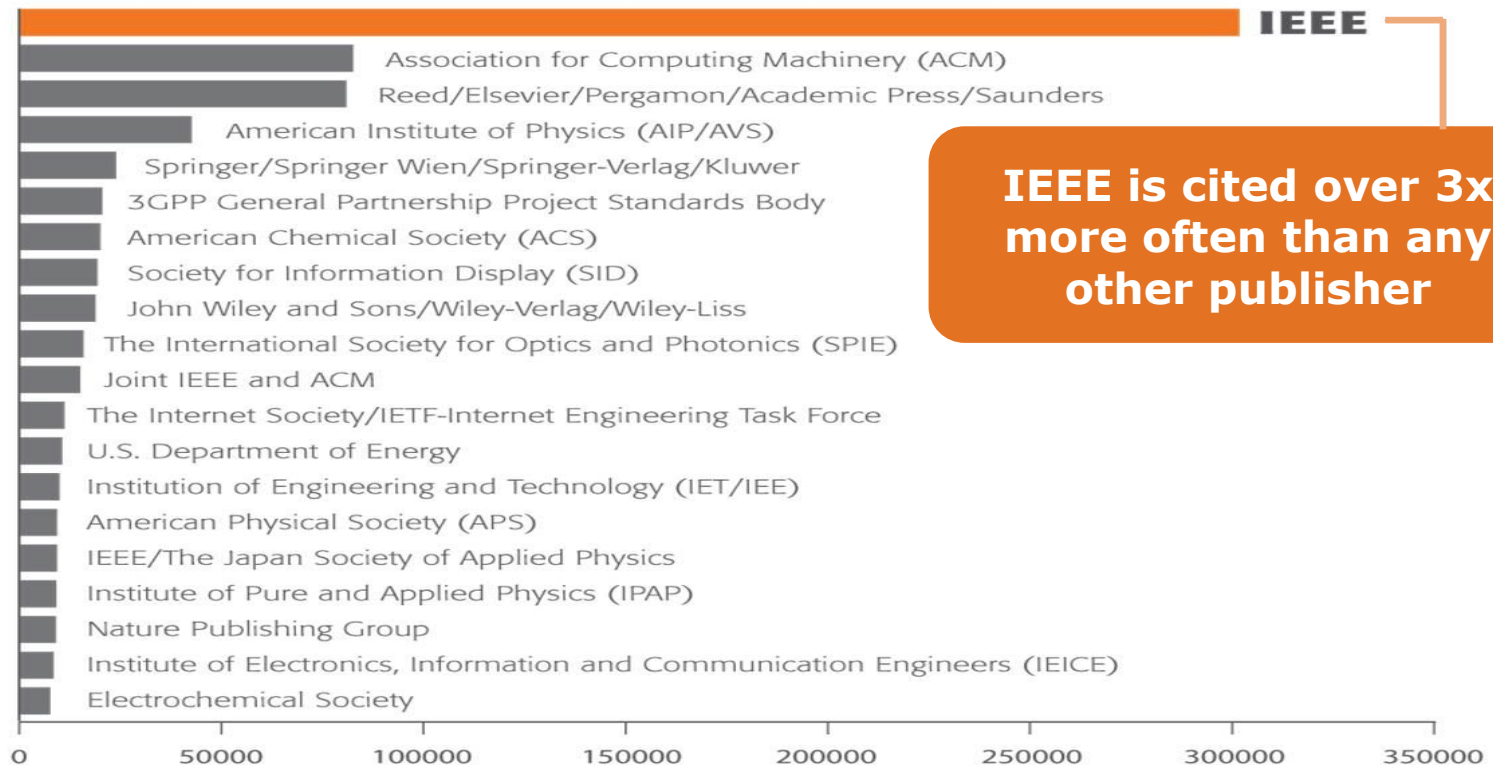


Full text access to IEEE/IET Electronic Library (IEL)

- More than 3,4 million full text documents
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- 20 IET conferences, 26 IET journals & magazines
- **NEW! Bell Labs Technical Journal (BLTJ) back to 1922**
- Inspec index records for all articles
- Backfile to 1988, select legacy data back to 1872

IEEE Leads US Patent Citations

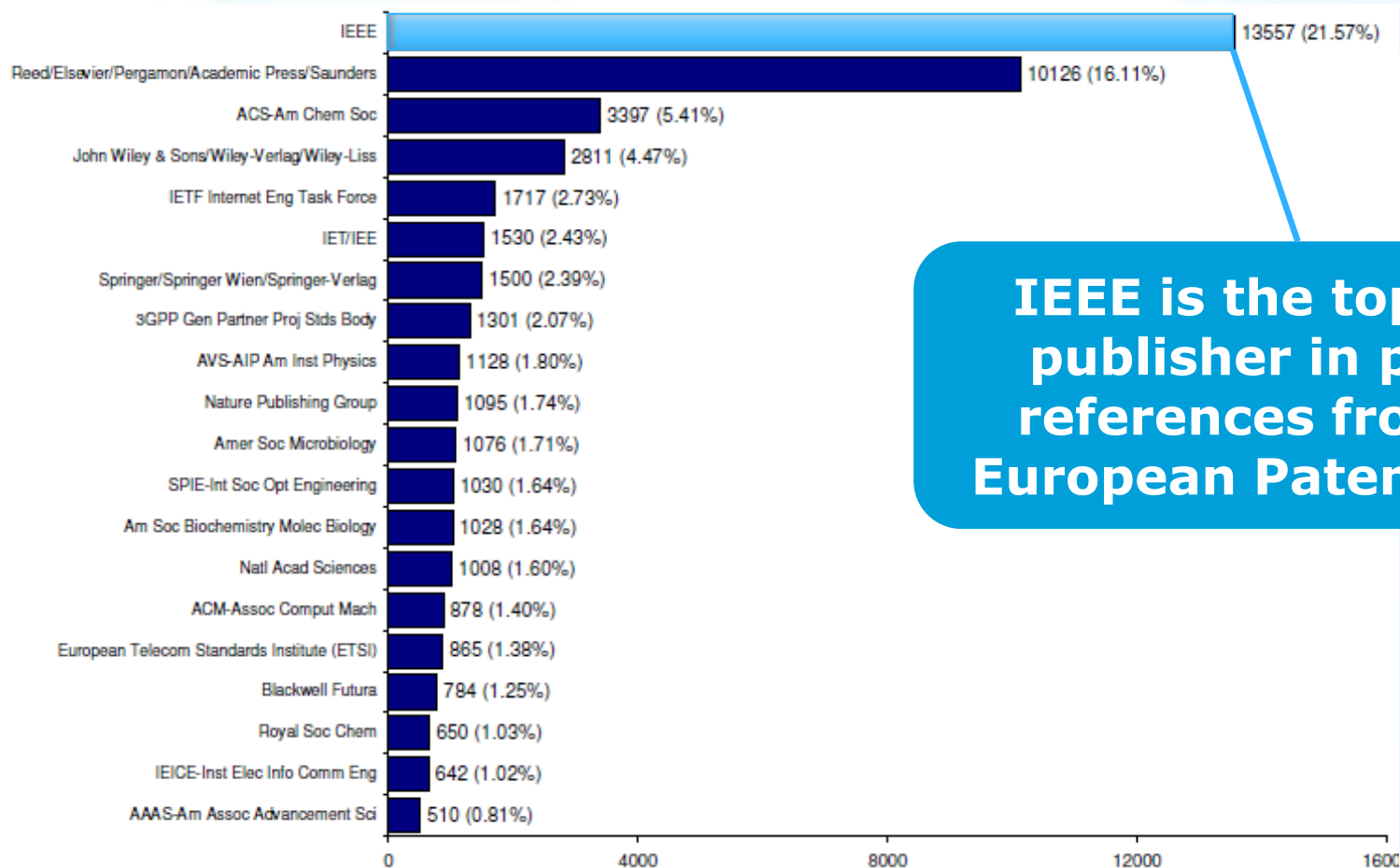
Top 20 Publishers Referenced Most Frequently by Top 40 Patenting Organizations



IEEE is cited over 3x more often than any other publisher

IEEE Leads European Patent Citations

Top 20 Publishers Referenced Most Frequently in EPO Patents by Top 25 Patenting Organizations



IEEE is the top cited publisher in patent references from the European Patent Office

Source: 1790 Analytics LLC 2012, Science References from 1997-2011

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*



Examples of New IEEE Conferences in 2014



- **Internet of Things** (WF-IoT), 2014 IEEE World Forum on
- **Humanitarian Technology** Conference, (IHTC), 2014 IEEE Canada International
- Aerospace Electronics and Remote Sensing Technology (ICARES), 2014 IEEE International Conference on
- Antenna Measurements & Applications (CAMA), 2014 IEEE Conference on
- Consumer Electronics, Taiwan (ICCE-TW), 2014 IEEE International Conference on
- Energy Conversion (CENCON), 2014 IEEE Conference on
- Ethics in Science, Technology and Engineering, 2014 IEEE International Symposium on
- **Transportation Electrification** Asia-Pacific (ITEC Asia-Pacific), 2014 IEEE Conference and Expo
- **Intelligent Energy** and Power Systems (IEPS), 2014 IEEE International Conference on
- Quantum Optics Workshop (QOW), 2014
- Sensor Systems for a Changing Ocean (SSCO), 2014 IEEE
- Wireless and Mobile, 2014 IEEE Asia Pacific Conference on
- Industrial Engineering and Information Technology (IEIT), 2014 International Conference on
- Guidance, Navigation and Control Conference (CGNCC), 2014 IEEE Chinese

Examples of New IEEE Standards in 2014

IEEE 802®–2014—IEEE Standard for **Local and Metropolitan Area Networks**: Overview and Architecture

IEEE 1127™–2013—IEEE Guide for the Design, Construction, and Operation of **Electric Power Substations** for Community Acceptance and Environmental Compatibility

IEEE 1361™–2014 —IEEE Guide for Selecting, Charging, Testing, and Evaluating Lead-Acid Batteries Used in Stand-Alone **Photovoltaic (PV) Systems**

IEEE 1609.0™–2013 - IEEE Guide for **Wireless Access in Vehicular Environments** (WAVE) – Architecture

IEEE 1683™ –2014 - IEEE Guide for Motor Control Centers Rated up to and including 600 V AC or 1000 V DC with Recommendations Intended to Help **Reduce Electrical Hazards**

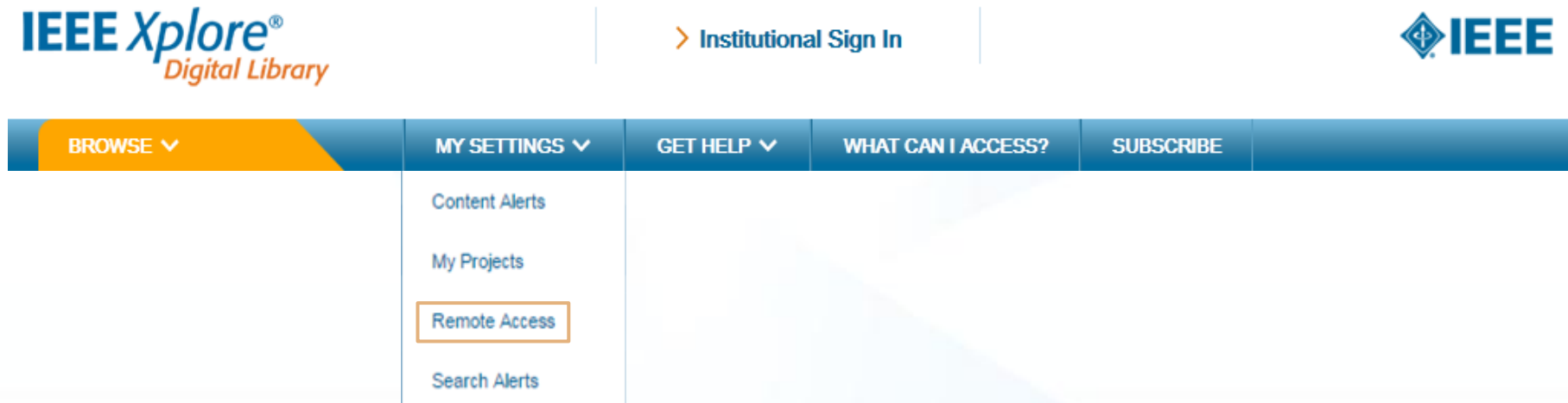
IEEE 1716™ –2014 - IEEE Recommended Practice for **Managing Natural Disaster Impact** on Key Electrical Systems and Installations in Petroleum and Chemical Facilities

IEEE 1782™–2014 - IEEE Guide for Collecting, Categorizing, and Utilizing Information Related to **Electric Power Distribution Interruption Events**

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User set up via IEEE *Xplore* “MY SETTINGS”

- New “**Remote Access**” menu item (based on customer opt-in)
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IEEE Xplore Home page



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GET HELP ▾

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Author Search

Publication Search

Advanced Search

Other Search Options ▾



IEEE Access wins the 2015 PROSE Award

IEEE Access wins the subject category of "Journal/Best New STM (Scientific, Technical, and Medical)" in the PROSE Awards, which annually recognize the very best in publishing by bringing attention to distinguished books, journals, and electronic content.

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Basic Search Bar



The screenshot shows the IEEE Basic Search Bar interface. At the top, there is a navigation bar with five tabs: "BROWSE" (highlighted in orange), "MY SETTINGS", "FILE CABINET", "GET HELP", and "WHAT CAN I ACCESS?". Below this, a large blue banner displays "Search 3.613.289 items" in white text. Underneath the banner is a search input field with the placeholder text "Enter Search Term". To the right of the input field is an orange "Search" button with a magnifying glass icon. Below the input field, there are four tabs: "Basic Search" (highlighted in dark blue), "Author Search", "Publication Search", and "Advanced Search". To the right of these tabs is a link for "Other Search Options" with a dropdown arrow.

- ANDs search terms
- Use quotes (“”) for an exact phrase
- Searching **metadata only**
- Automatic stemming
- Case insensitive
- Type-ahead (aka auto suggest) functionality

Type ahead from Basic Search

[BROWSE ▾](#)[MY SETTINGS ▾](#)[FILE CABINET ▾](#)[GET HELP ▾](#)[WHAT CAN I ACCESS?](#)

Search **3.613.289** items

cloud

Search

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other researchers,

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Cloud Computing

Clouds

Cloud

Cloud Services

Cloud Storage

Cloud Environment

Cloud Computing Environment

Cloud Computing And Intelligent Systems (CCIS), 2012 IEEE 2nd International Conference On

Cloud Service

Cloud Security

Cloud Infrastructure

Cloud Model

Cloud Providers

Search Results and refinements

FILTER THESE RESULTS ?

Search results:

Search

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

CONTENT TYPE

- ☐ Conference Publications (16,992)
- ☐ Journals & Magazines (1,530)
- ☐ Early Access Articles (209)
- ☐ Books & eBooks (40)
- ☐ Education & Learning (3)
- ☐ Standards (1)

PUBLICATION YEAR

- ☐ Single Year
- ☒ Range

SEARCH RESULTS

You searched for: "cloud computing"

18.775 Results returned

Results per page 25

Sort by: Relevance

Select All on Page | Deselect All

« First | 1 2 3 »



Set Search Alert



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Email Results



Realization of open cloud computing federation based on mobile agent

Zehua Zhang ; Xuejie Zhang

Intelligent Computing and Intelligent Systems, 2009. ICIS 2009. IEEE International Conference on

Volume: 3

DOI: 10.1109/ICICISYS.2009.5358085

Publication Year: 2009 , Page(s): 642 - 646

Cited by: Papers (12)

IEEE CONFERENCE PUBLICATIONS



Quick Abstract



PDF (151 KB)



HTML

Save Search

FILTER THESE RESULTS

Search within results:

Search

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▼ CONTENT TYPE

☐ Conference Publications (3,922)

☐ Journals & Magazines (3,075)

☐ Early Access Articles (3)

▼ PUBLICATION YEAR

☐ Single Year ☒ Range

1931

2013

From:

To:

SEARCH RESULTS

You searched for: (((**"Author Affiliations":boeing**) OR **"Author Affiliations":raytheon**) OR **"Author Affiliations":lockheed**)

Results per page

Select All on Page | Deselect All

 Set Search Alert

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**A network-cent
airspace securi**
Stamm, R.J. ; Mc
Aerospace Confe
Digital Object Ide
Publication Year:
Cited by 1
IEEE CONFEREN

 |  Quick

☐ **Real-time performance or fusion algorithms for computer aided detection and classification of bottom mines in the littoral environment**
Ciany, C.M. ; Zurawski, W.C. ; Dobeck, G.J. ; Weilert, D.R.
OCEANS 2003. Proceedings
Volume: 2

SEARCH HISTORY

...y is
g your

TERMS

ards

SAVED SEARCH

Address shown is from information saved in your preferences.

Saved Search Name *:

Query: You searched for: (((**"Author Affiliations":boeing**) OR **"Author Affiliations":raytheon**) OR **"Author Affiliations":lockheed**)

Email Address: saws824@yahoo.com

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You will receive email alerts whenever new content that matches your saved search is added to IEEE Xplore. If you don't wish to receive such email alerts, please uncheck this box.

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Abstract Plus

In Fig. 10, we know that if \mathcal{C} should have issued a query $X_B = \hat{e}(g^\gamma, sk_B)$ to the random oracle H_2 , where $sk_B = ((g^\beta)^{\rho_B})^\alpha$, then

$$X_B^{(\rho_B)^{-1}} = \hat{e}(g^\gamma, ((g^\beta)^{\rho_B})^\alpha)^{(\rho_B)^{-1}} = \hat{e}(g, g)^{\alpha\beta\gamma}.$$

▼ TeX Source

```


$$X_B^{(\rho_B)^{-1}} = \hat{e}(g^\gamma, ((g^\beta)^{\rho_B})^\alpha)^{(\rho_B)^{-1}} = \hat{e}(g, g)^{\alpha\beta\gamma}.$$


```

It is the answer of the BDH instance $\langle g, g^\alpha, g^\beta, g^\gamma \rangle$.

In order to determine the advantage in (1), we use the technique in [5]. Suppose the adversary \mathcal{C} has advantage $\epsilon_{\mathcal{C}}(k)$. Then the adversary against the BDH problem has following advantage:

$$\epsilon_{\text{BDH}}(k) = \frac{\epsilon_{\mathcal{C}}(k)}{e(q_p + q_v + 1)},$$

▼ TeX Source

```


$$\epsilon_{\text{BDH}}(k) = \frac{\epsilon_{\mathcal{C}}(k)}{e(q_p + q_v + 1)},$$


```

Results
Next

3.

Back Preview

ures



References & Citing Documents

4

Author(s)

Hyejin Son ; Sch. of Electr. Eng., Korea Univ., Seoul, South Korea ; Tae Yoon Kang ; Hwangnam Kim ; Jae Hyung Roh

Abstract

Authors

References

Cited By

Keywords

Metrics

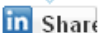
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Citation Map

1. Mokhtari, G.; Zare, F.; Nourbakhsh, G.; Ghosh, A. "A new DER coordination in LV network based on the concept of distributed control", *Power Electronics for Distributed Generation Systems (PEDG), 2012 3rd IEEE International Symposium on*, On page(s): 1 - 8
[Abstract](#) | Full Text: [PDF](#) (1825KB)
2. Hong Liu; Huansheng Ning; Yan Zhang; Guizani, M. "Battery Status-aware Authentication Scheme for V2G Networks in Smart Grid", *Smart Grid, IEEE Transactions on*, On page(s): 99 - 110 Volume: 4, Issue: 1, March 2013
[Abstract](#) | Full Text: [PDF](#) (5064KB)
3. Hong Liu; Huansheng Ning; Yan Zhang; Yang, L.T. "Aggregated-Proofs Based Privacy-Preserving Authentication for V2G Networks in the Smart Grid", *Smart Grid, IEEE Transactions on*, On page(s): 1722 - 1733 Volume: 3, Issue: 4, Dec. 2012
[Abstract](#) | Full Text: [PDF](#) (3894KB)
4. Taeyoon Kang; Hwangnam Kim "Preserving privacy with anonymity for customer collaboration in smart grid", *Communications (APCC), 2012 18th Asia-Pacific Conference on*, On page(s): 724 - 729
[Abstract](#) | Full Text: [PDF](#) (157KB)

IEEE

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This wizard will NOT build your expression. View examples of how to write a boolean search string

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Enter e-mail address & password

The e-mail address provided here will be the username of your account

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*Password:

*Confirm Password:

What is a valid password?
Password Strength

Set security questions ?

For your security, IEEE Accounts are required to have two security questions and answers.

*Security question 1:

*Type Your Answer:

*Security question 2:

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Add or Confirm E-mail Address (Your New Username)

Choose an existing e-mail address or add a new one.

Select an e-mail address on file:

Add another e-mail address ▼

* E-mail address:

demotest3@ieee.org

* Confirm e-mail address:

demotest3@ieee.org

Add or Confirm Password

Enter your current password or create a new one.

* Password:

••••••••••••••••

* Confirm Password:

••••••~••••••••••

What is a valid password?

Great password!

Set security questions

* Security question 1:

What are the last 4 digits of your Social Security Nu ▼

* Type your answer:

1234

* Security question 2:

What city were you born in? ▼

* Type Your Answer:

piscataway

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January 2015 | Volume 103 | Number 1

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☐ The design framework

Tao Zhang ;
Congcong Shi
Power Systems
International
Digital Object
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The design of information security protection framework to support Smart Grid

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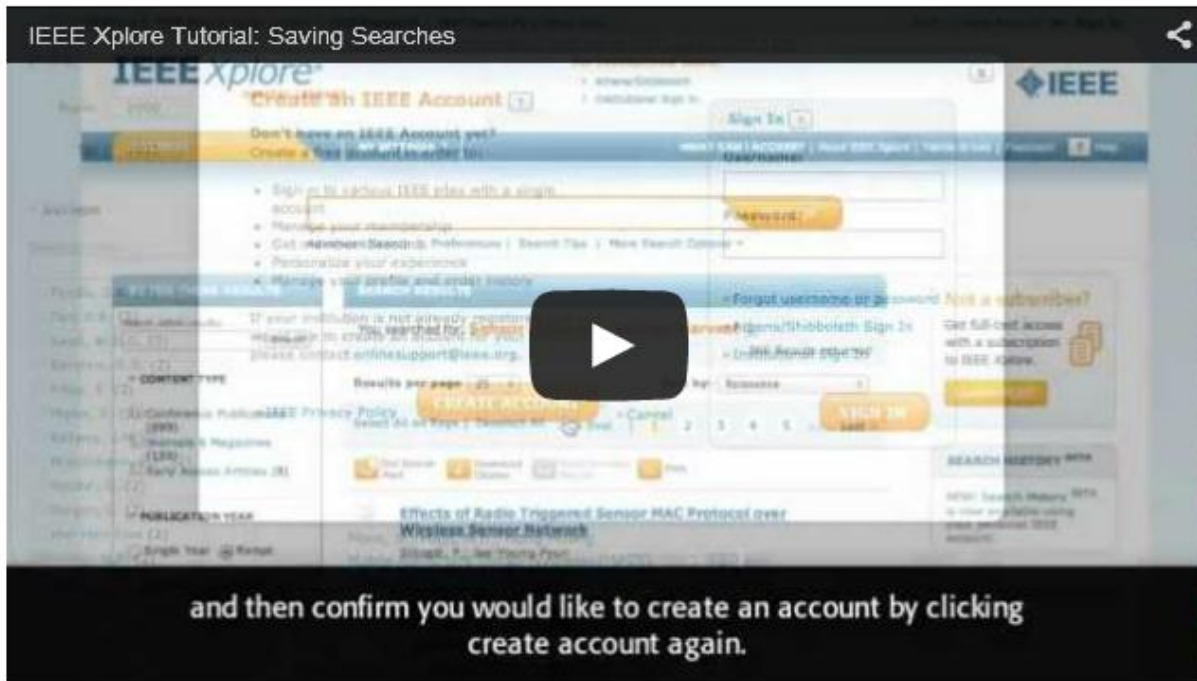
procter and gamble (3)
smart grid (3)
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mems (1)
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Eszter Lukács

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 - 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

Audience

What IEEE editors and reviewers are looking for

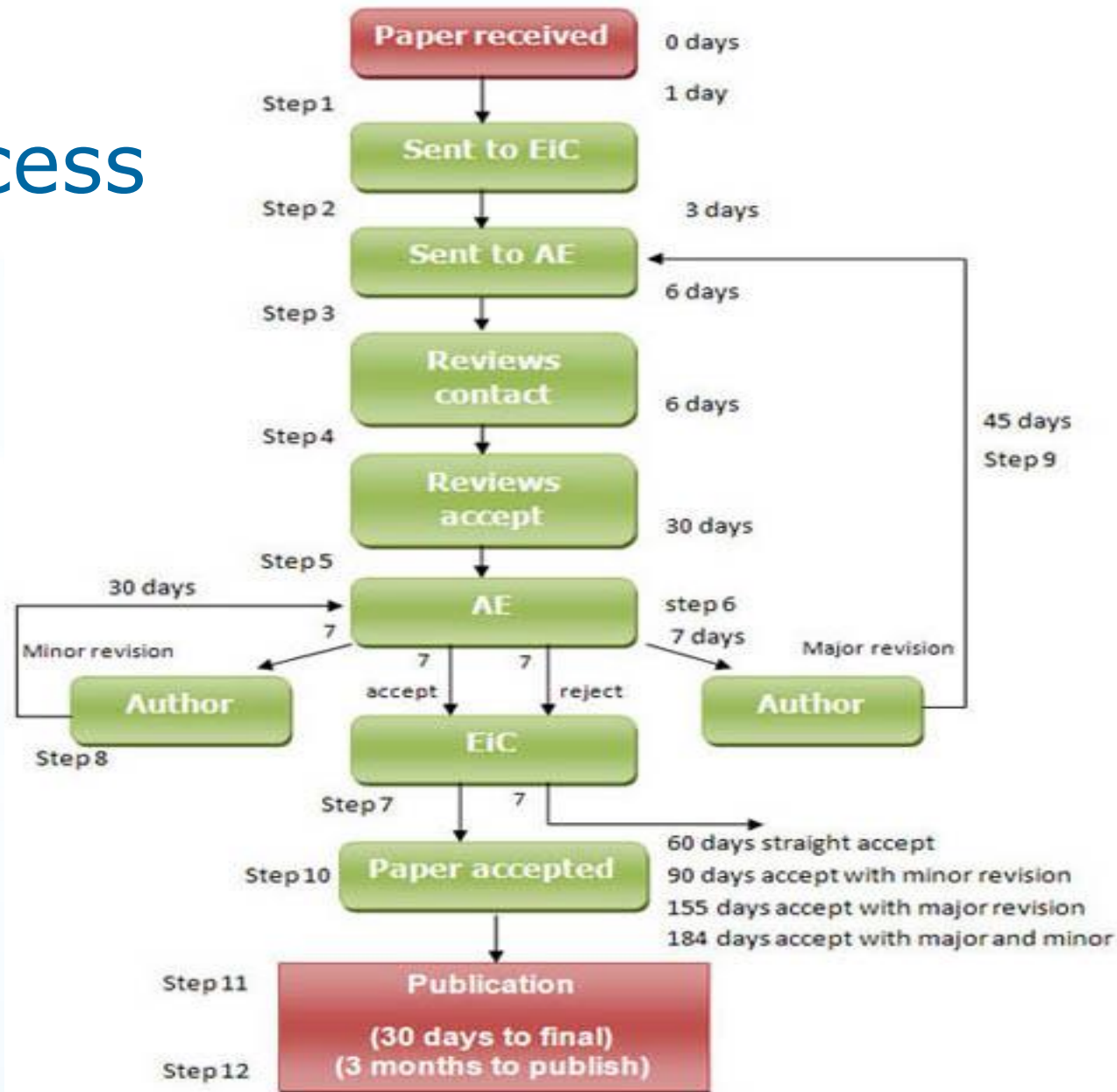
- Content that is **appropriate, in scope and level, for the journal**
- Clearly written **original material that addresses a new and important problem**
- Valid methods and rationale
- Conclusions that make sense
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject

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**

Review Review Process



e.g. IEEE
Transactions on
Information
Technology in
Biomedicine

Review

Possible review decisions

- **ACCEPT:** Congratulations! The paper now is entered into a production process.
- **ACCEPT WITH MINOR CORRECTIONS:** One or more of the referees have made suggestions for improvement.
- **RESUBMIT:** The paper has major deficiencies that could be repaired by the author.
- **REJECT:** If you have a rejection from a top publication, you can try submitting the paper to a less-selective publication.



Author Processing

Once accepted...

- Bills are sent to the author, if open access.
- Article production is initiated.
- Articles are posted online and included in the print version, if available.



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Structure

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

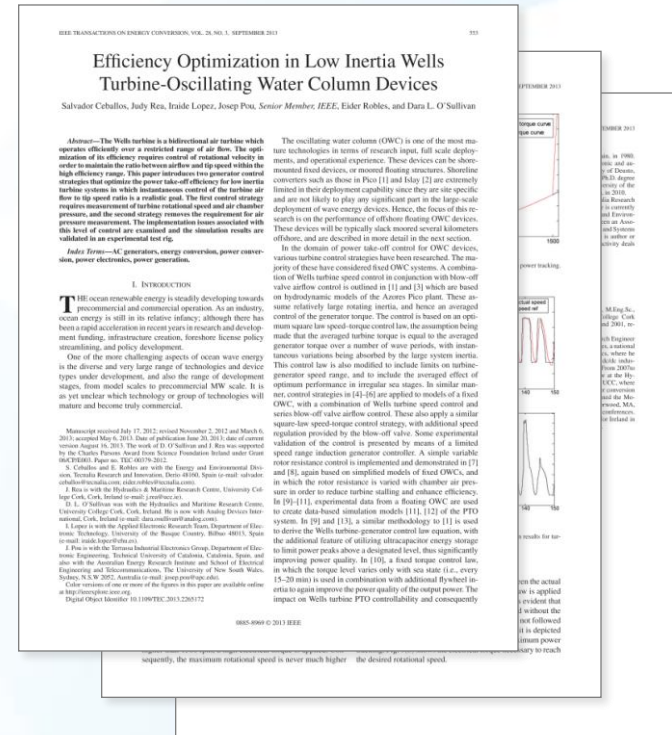
Introduction

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

Good vs. Better Title

An Investigation into the Effects of Residential Air-Conditioning Maintenance in Reducing the Demand for Electrical Energy

VS

"Role of Air-Conditioning Maintenance on Electric Power Demand"

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 you did it

What you did

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

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

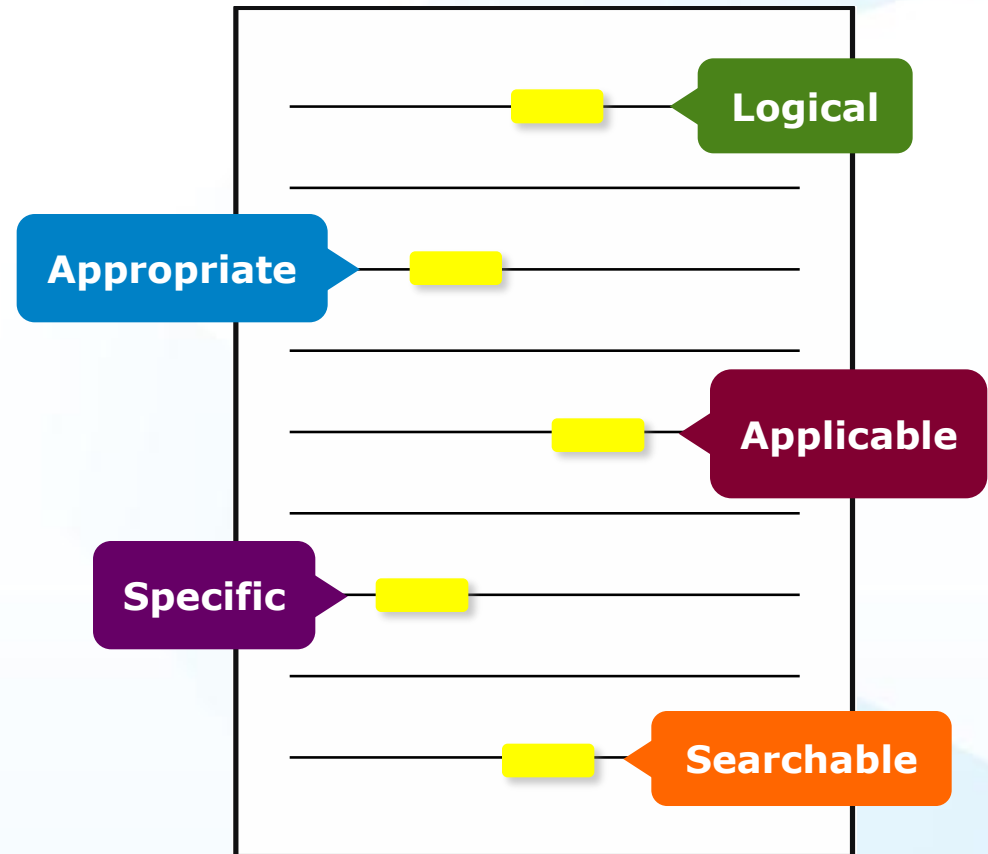
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe** 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

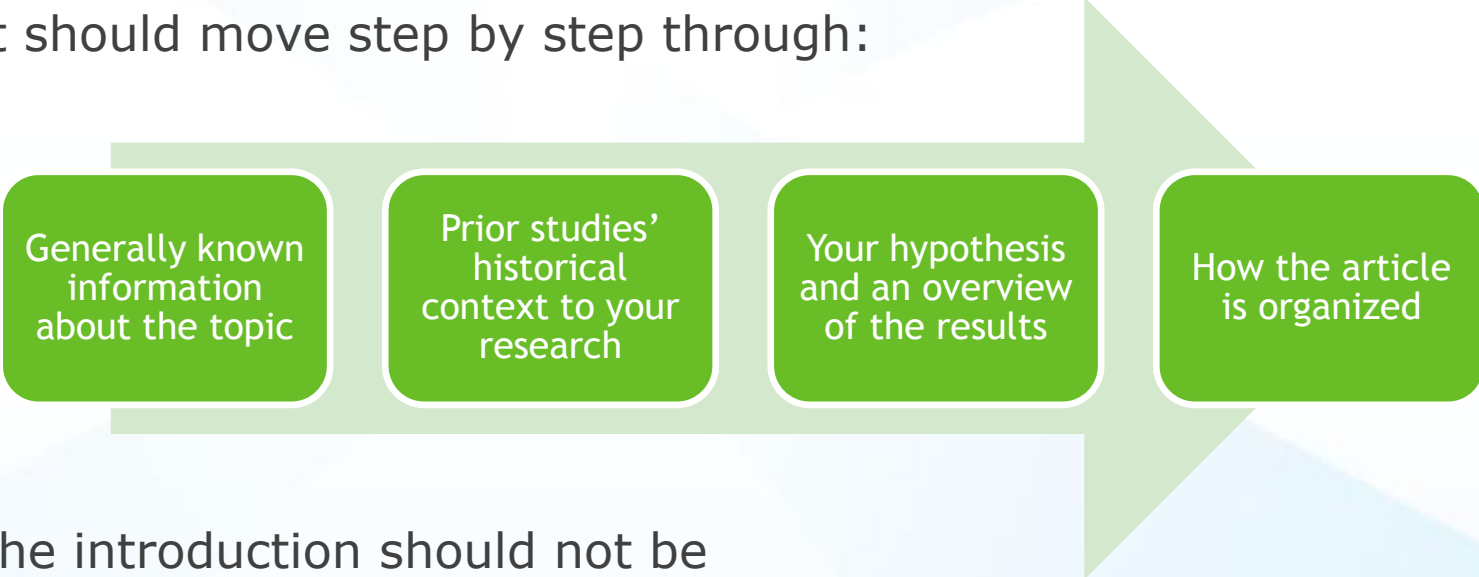
Use in the Title and
Abstract for enhanced
Search Engine Optimization



Paper Structure

Introduction

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



Generally known
information
about the topic

Prior studies'
historical
context to your
research

Your hypothesis
and an overview
of the results

How the article
is organized

- 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



Figures

Quickly show ideas/conclusions that
would require detailed explanations



Graphs

Show relationships
between data points
or trends in data



Paper Structure

Results/discussion

Demonstrate that you solved the problem or made significant advances

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

Results

Discussion

the SC algorithm over the whole range of w values increase to 3–4 K, except for the TIGRA₁₁₁ 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 g 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, due the SC underestimates the LST). In contrast, when only w values higher than 3 g cm^{-2} are considered, the SC algorithm provides RMSEs higher than 5 K. In these cases, it is preferable to calculate the atmospheric fractions 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-2 TIR bands allow the unique comparison of two LST retrieval methods based on different physical assumptions, such as the SC (only one TIR band required) and the ETM algorithm (two TIR bands required). Direct inversion of the transfer equation, which can be considered as the "ground-truth" method, is assumed to be a "ground-truth" method and the condition that the information about the surface emissivity and T_{atm} is accurate enough. The SC algorithm in this letter is a combination of the previous SC algorithm for Landsat-2 TIR bands and the ETM algorithm for the ETM-5 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., $> 3 \text{ g cm}^{-2}$). This problem can be partly solved by computing the atmospheric fractions directly from τ , L_w , and L_g values (see [5]), or also by including 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 input parameters; however, 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 TIR band, since previous TM/ETM sensors only had one TIR band.

The LST algorithm presented in this letter was 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 u values below 5 g 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-Muñoz (18). Although an extensive validation exercise from *in situ* measurements is required to assess the performance of the two LST algorithms, the results obtained in the simulated data, the simulated data, as well as the previous findings for algorithms with the same mathematical structure give confidence in the algorithm accuracies estimated here.

REFERENCES

- # 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



Paper Structure

References

- Support and validate the hypothesis your research proves, disproves or resolves
- There is no limit to the number of references
 - But use only those that directly support our work
- Ensure proper author attribution
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IEEE TRANSACTIONS ON SMART GRID, VOL. 5, NO. 4, JULY 2014

We then have

$$\begin{aligned} (P_t^{k+} + P_t^{k-})^2 &= (P_t^{k+} - P_t^{k-})^2 + 4P_t^{k+}P_t^{k-} \\ &< (P_t^{k+} - \hat{P}_t^{k-})^2 + 4\hat{P}_t^{k+}\hat{P}_t^{k-} \\ &= (\hat{P}_t^{k+} + \hat{P}_t^{k-})^2 \end{aligned} \quad (32)$$

Since $P_t^{k+} - P_t^{k-} = \hat{P}_t^{k+} - \hat{P}_t^{k-}$, we then have $\hat{P}_t^{k+} < P_t^{k+}$, and $\hat{P}_t^{k-} < P_t^{k-}$. Because the operational cost is an increasing function of $\{P_t^{k+}, P_t^{k-}\}$, we obtain that

$$c_{0/1n}(\hat{P}_t^{k+}, \hat{P}_t^{k-}) < c_{0/1n}(P_t^{k+}, P_t^{k-}). \quad (33)$$

Therefore the optimal pair $\{P_t^{k+}, P_t^{k-}\}$ must satisfy that $P_t^{k+}P_t^{k-} = 0$, i.e., only one of P_t^{k+}, P_t^{k-} can be non-zero. ■

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Dr. Nehorai served as Editor-in-Chief of *IEEE Transactions on Signal Processing* from 2000 to 2002. From 2003 to 2005 he was the Vice President of the IEEE Signal Processing Society (SPS), the Chair of the Publications Board, and a member of the Executive Committee of this Society. He was the founding Editor of the special column on Leadership Reflections in *IEEE Signal Processing Magazine* from 2003 to 2006. He has been a Fellow of the IEEE since 1994, the Royal Statistical Society since 1996, and the AAAS since 2012.

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- Does the same material appear more than ones?
- Can it be clearer?
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Ethics

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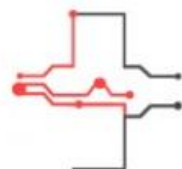


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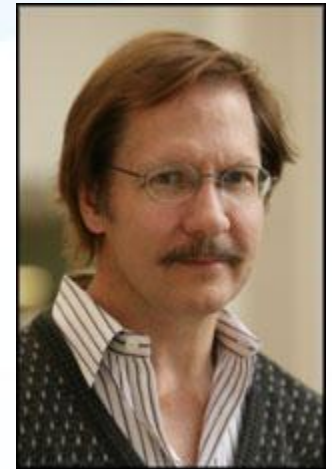
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