

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

**Dr. Carlos A. Coello Coello**

CINVESTAV-IPN

Av. IPN No. 2508

Col. San Pedro Zacatenco

México, D.F.

Email: [ccoello@cs.cinvestav.mx](mailto:ccoello@cs.cinvestav.mx)

# About the Keynote Speaker

## Dr. Carlos Artemio Coello Coello

Professor of the Computer Science Department with the Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico City, Mexico.



- **IEEE Fellow** for *contributions to multi-objective optimization and constraint-handling techniques*. Being a Fellow is the highest distinction granted by the IEEE to its members. No more than one tenth of the 1% of its voting members can obtain this distinction each year.
- Recipient of the **2013 IEEE Kiyo Tomiyasu Award**, "*for pioneering contributions to single- and multiobjective optimization techniques using bioinspired metaheuristics*"
- Currently Associate Editor for the following IEEE journals: *IEEE Transactions on Evolutionary Computation*
- Frequent author of many top-cited articles & conference papers
- Has been member of the Evaluating Committee of the National System of Researchers in Area VII (and presided it in 2009).

# Topics

- **IEEE Introduction and Background**
- **How to Write a Quality Technical Paper and Where to Publish within IEEE**
- **Next Steps: IEEE *Xplore*<sup>®</sup> and other author tools**

# About the IEEE

- World's largest technical membership association with over 430,000 members in over 160 countries
- Not for profit organization dedicated to “Advancing Technology For Humanity”
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- Publish the top-cited science and technology research in the field, most notably our journals, conferences and standards
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# IEEE quality makes an impact

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## IEEE publishes:

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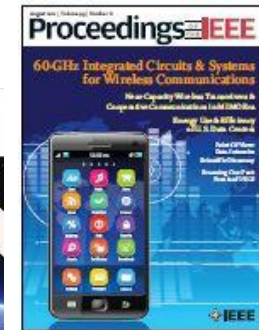
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- # 2 in Information Systems
- # 2 in Imaging Science

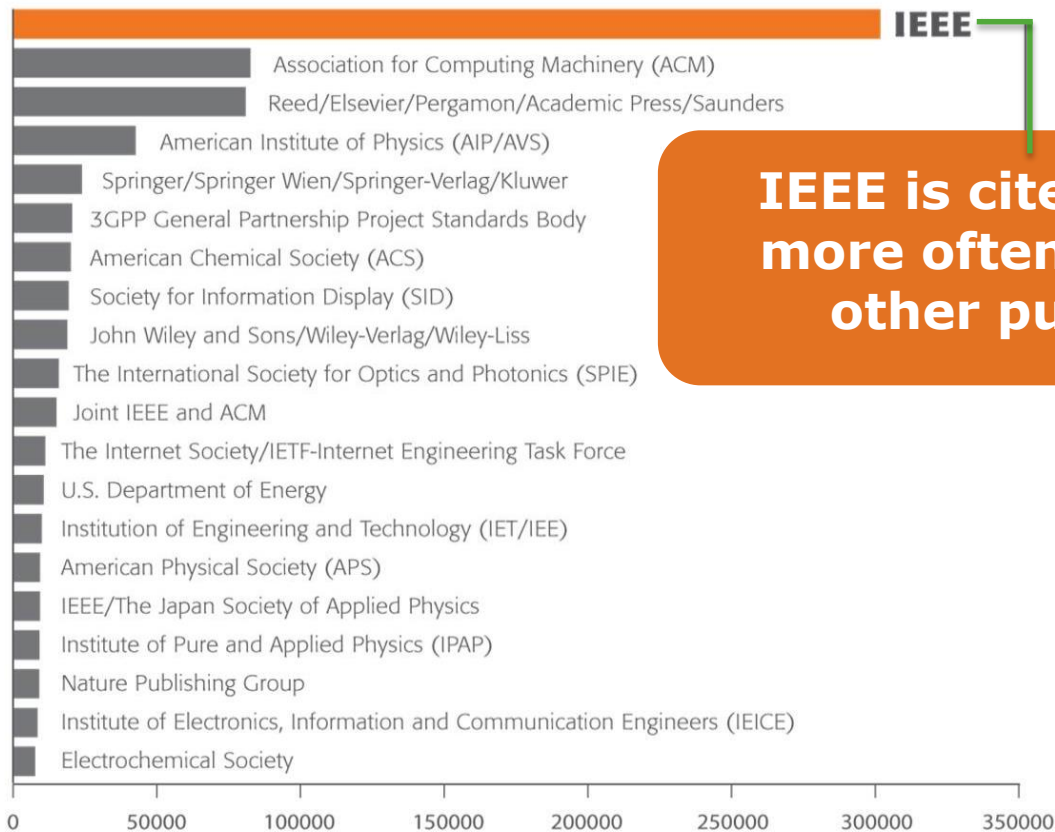
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# IEEE Leads in Patent Citations

## Top 20 Publishers Referenced Most Frequently by Top 40 Patenting Organizations



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

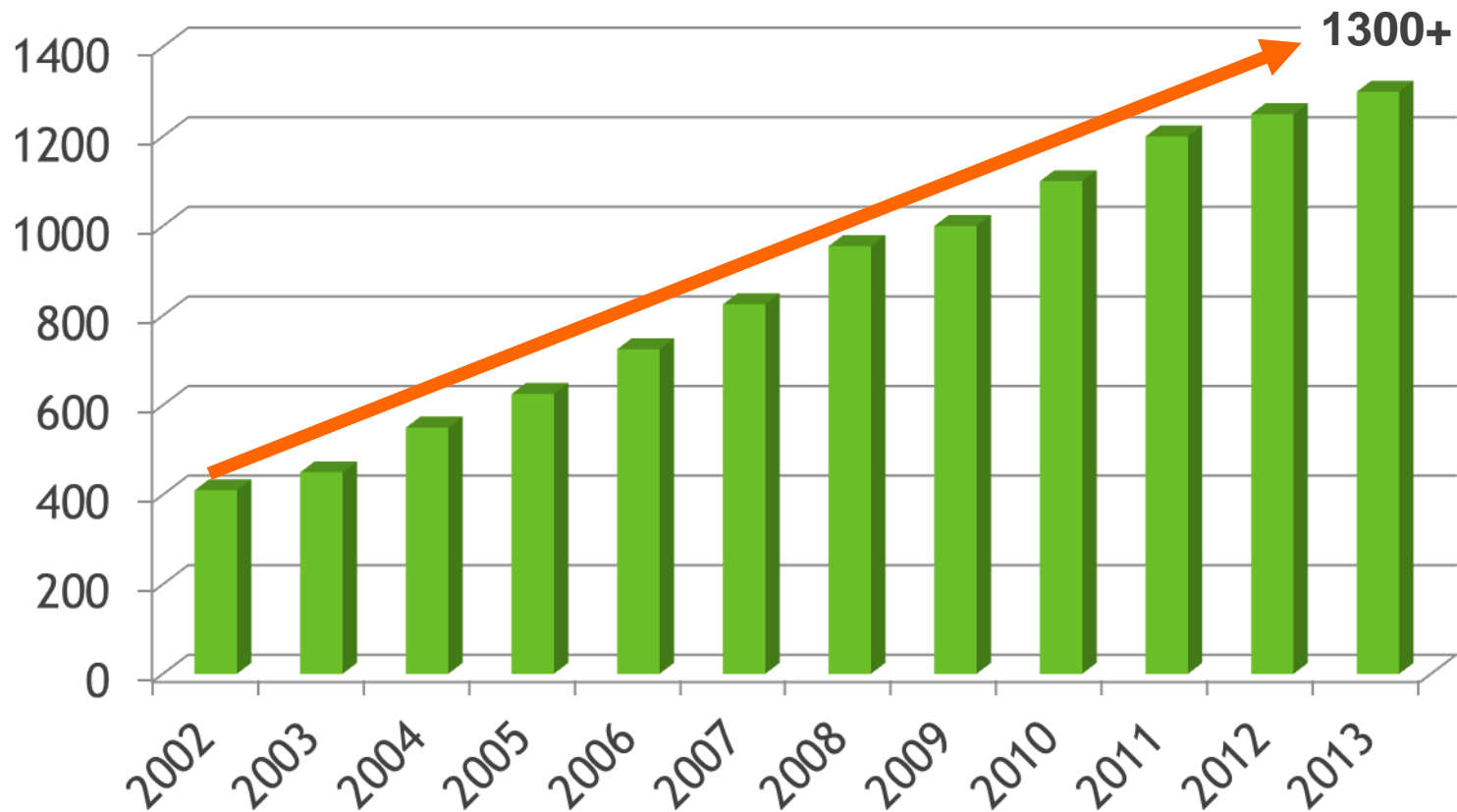
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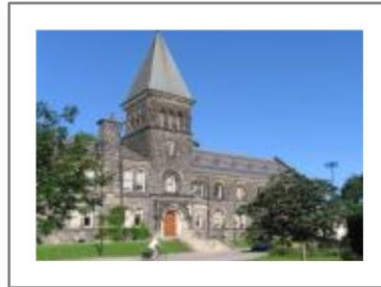
# The world's most successful technology organizations rely on IEEE information



## Technology Companies

- 7 out of top 10 Telecommunications companies
- 24 out of top 25 Semiconductor companies
- Top 10 Aerospace companies
- 9 of top 10 Auto & Truck Manufacturers
- 9 of top 10 Communications Equipment companies
- 4 of top 5 Electronics companies
- 4 of top 5 Computer Hardware

(Forbes Global 2000 Rankings, June 2014)



## Universities

- All of the top 100 engineering schools in US
- 49 of the Top 50 Technical Universities Worldwide

(US News and World Report 2013, (Study based on 2012) Times Higher Education Top Technology Universities)



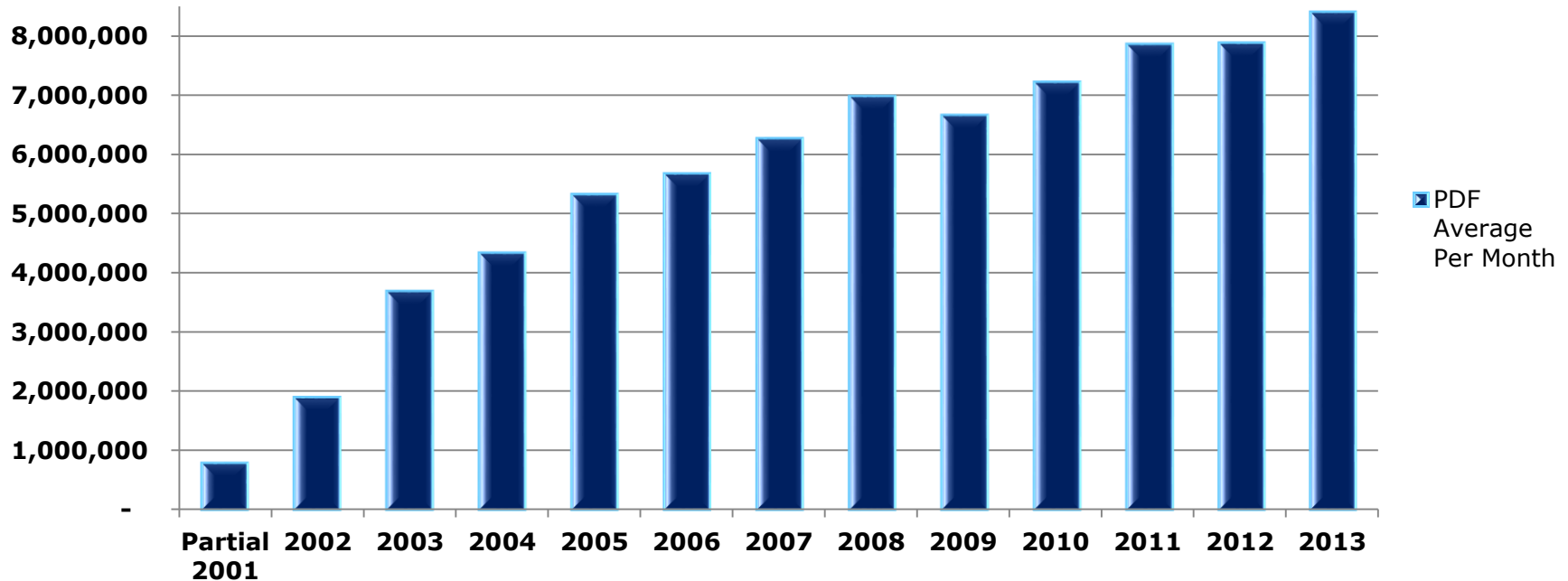
## Government

- 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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# 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

## 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.
- SNI requires papers in journals that are included in the *Journal Citations Reports* (JCR). Most IEEE journals are included in the JCR.

## 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

## Publish

# Finding the right IEEE publication or IEEE conference

IEEE has **170 unique publications** covering a wide range of technical areas

- Review the journal listings
  - Who reads it
  - What they publish
  - What kinds of articles they want

IEEE publishes **1,200+** leading-edge **conference proceedings** every year

- Review the conference calendar
  - Find a good match for your research subject matter
  - Ensure you are available to present

# Audience

## Audience

# Basic Questions

1. Are you writing this paper for the sake of writing a paper?
2. Or do you want to make a difference in your technical community?

## Audience

# Scientific research publishing

- Who writes scientific papers?
  - Whoever solves a new and important problem in their field
  - Engineers, scientists, educators and researchers from:
    - Corporations
    - Academia
    - Government
  - Students typically write and present conference papers before submitting journal articles





## 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

# Structure

# Paper Structure

## Elements of a manuscript

Title

Abstract

Keywords

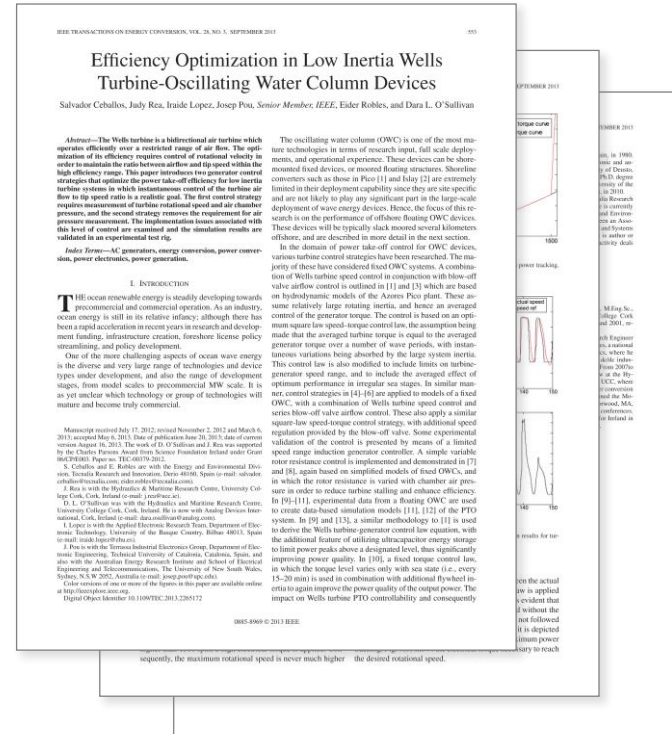
Introduction

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

## 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**

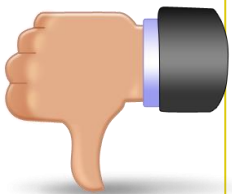
## Paper Structure

# 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.

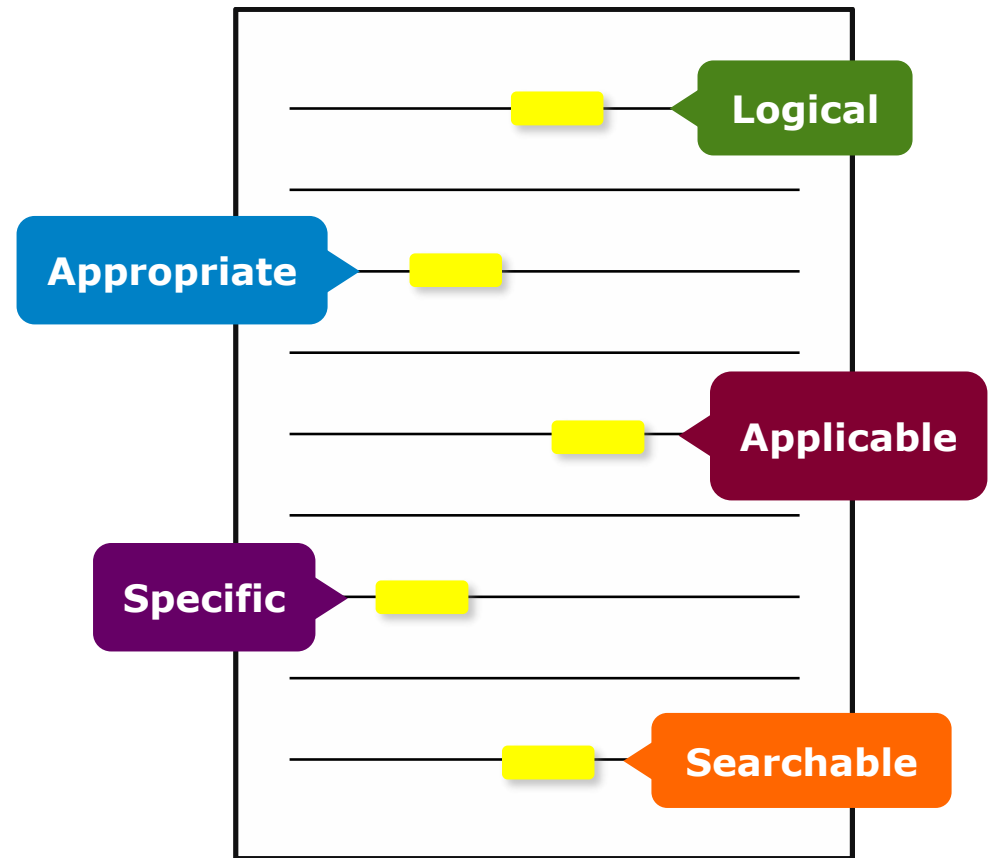
***First person, present tense***

***No actual results, only describes the organization of the paper***



# Paper Structure Keywords

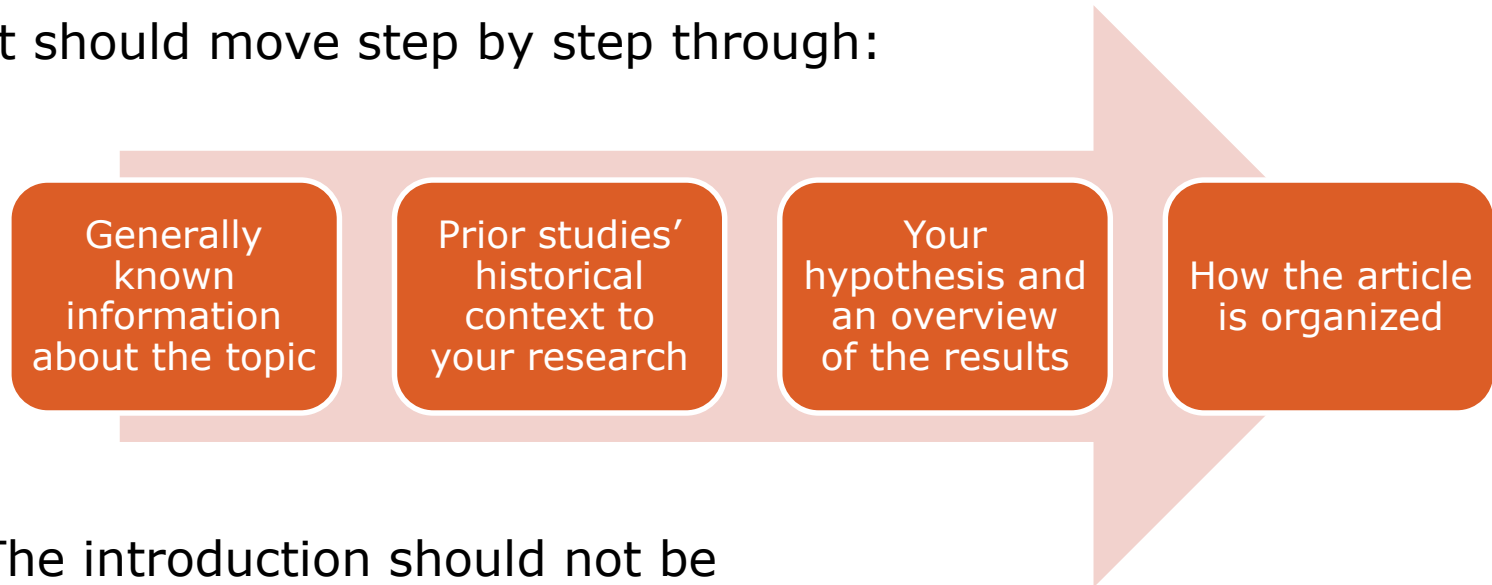
Use in the Title and  
Abstract for enhanced  
Search Engine Optimization



# 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

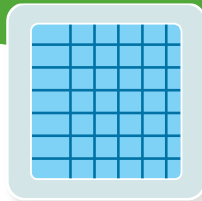
# Paper Structure

## 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

## 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

## Discussion

## Results

the SC algorithm over the whole range of  $\omega$  values increase to 3–4 K, except for the TIGR<sub>1+11</sub> database, with an RMSE of 2 K. This last result is explained by the  $\omega$  distribution, which is biased toward low values of  $\omega$  in this database. When only atmospheric profiles with  $\omega$  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  $\omega$  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 the “ground-truth” algorithm, is assumed to be a “ground-truth” algorithm because the information about the surface and  $L_{\text{at}}$  is accurate enough. The SC algorithm in this letter is a combination of the previous SC algorithm developed for Landsat-4 and Landsat-5 TIR 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  $\tau$ ,  $L_{\text{at}}$ , and  $L_{\text{g}}$  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  $\omega$  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-Munoz [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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# 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
  - Author name, *article title*, publication name, publisher, year published, volume, chapter and page number
  - IEEE journals generally follow a citation numbering system

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We then have

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

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

$$c_{g|w}(P_t^{g+}, P_t^{g-}) < c_{g|w}(P_t^{h+}, P_t^{h-}). \quad (33)$$

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

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Peng Yang (S'11) received the B.Sc. degree in electrical engineering from University of Science and Technology, Anhui, China in 2009, and the M.Sc. and Ph.D. degrees in electrical engineering from Washington University in St. Louis, St. Louis, MO, USA, in 2011 and 2014, respectively. His Ph.D. advisor is Dr. Arye Nehorai.

His research interests include statistical signal processing, optimization, machine learning, and compressive sensing, with applications to smart grids.



Arye Nehorai (S'70-M'83-SM'90-F'94) received the B.Sc. and M.Sc. degrees from the Technion, Haifa, Israel, and the Ph.D. degree from Stanford University, Stanford, CA, USA.

He is the Eugene and Martha Lehman Professor and Chair of the Preston M. Green Department of Electrical and Systems Engineering (ESE) at Washington University in St. Louis (WUSTL), St. Louis, MO, USA. Earlier, he was a faculty member at Yale University and the University of Illinois at Chicago.

Dr. Nehorai served as Editor-in-Chief of *IEEE Transactions on Signal Processing* 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 2004. 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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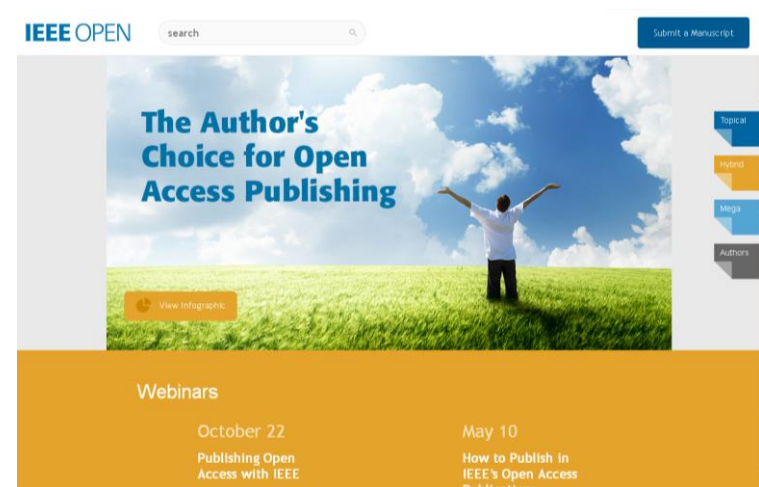
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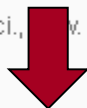
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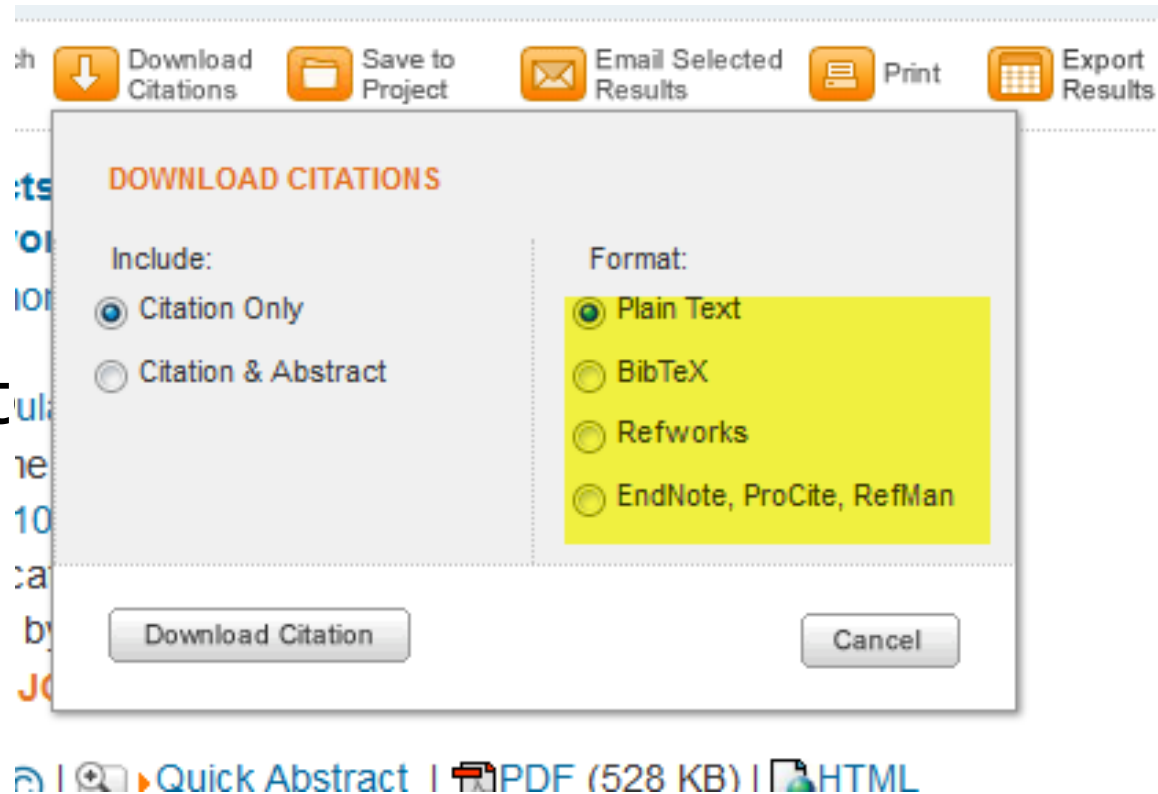
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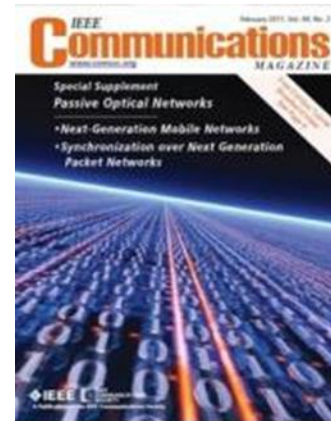
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- Cognitive Radio and Networking Research at Virginia Tech**  
MacKenzie, A.B. ; Reed, J.H. ; Athanas, P. ; Bostian, C.W. ; Buehrer, R.Michael ; DaSilva, L.A. ; Ellingson, S.W. ; Hou, Y.T. ; Hsiao, M. ; Jung-Min Park ; Patterson, C. ; Raman, S. ; da Silva, C.  
Proceedings of the IEEE  
Volume: 97 . Issue: 4

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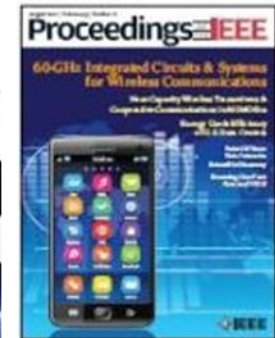
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P. J. Antsaklis  
Dept. Electrical Engineering  
University of Notre Dame  
Notre Dame, IN 46556 46556 USA  
[antsaklis.1@nd.edu](mailto:antsaklis.1@nd.edu)  
Phone: +1 574-631-5792  
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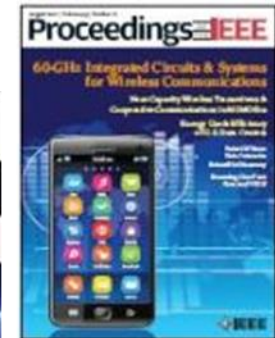
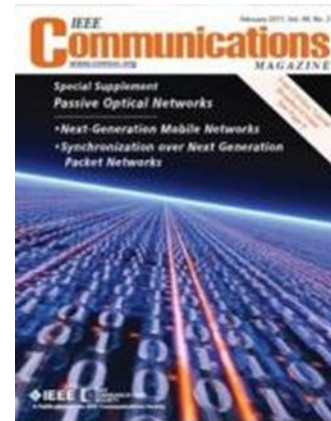
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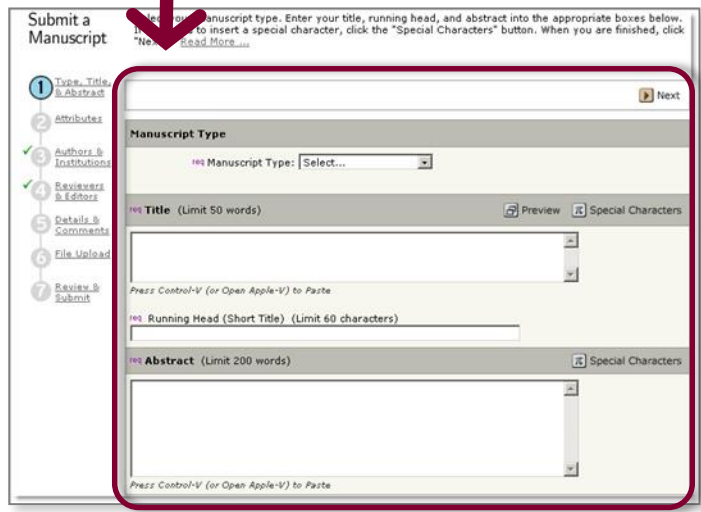
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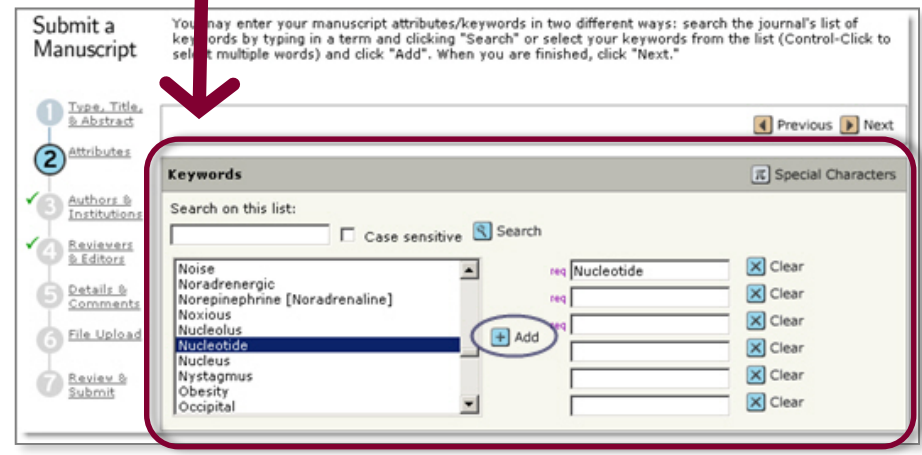
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