

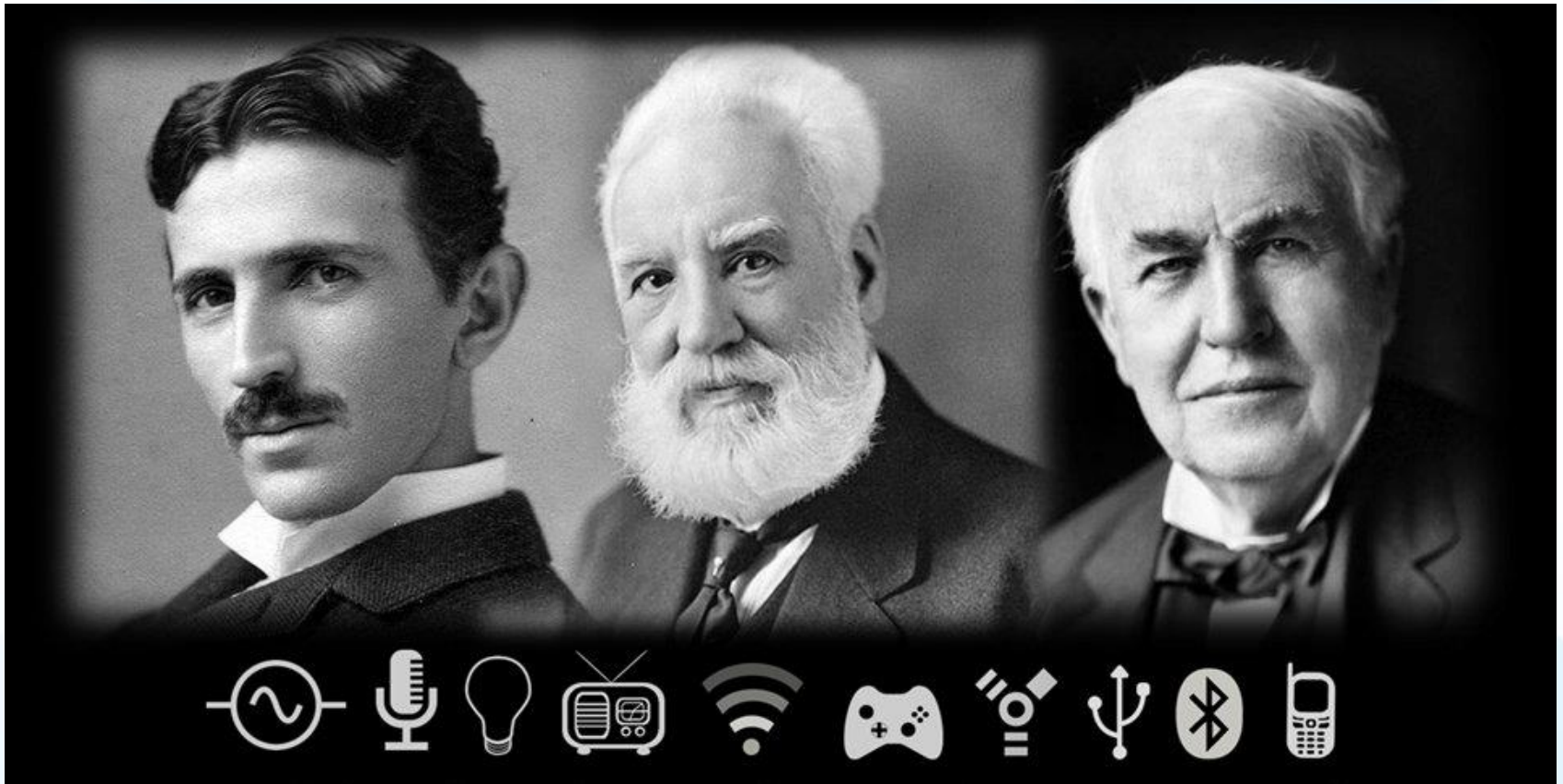
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Eszter Lukács

e.lukacs@ieee.org

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2 of the top 5 journals in Computer Science, Cybernetics

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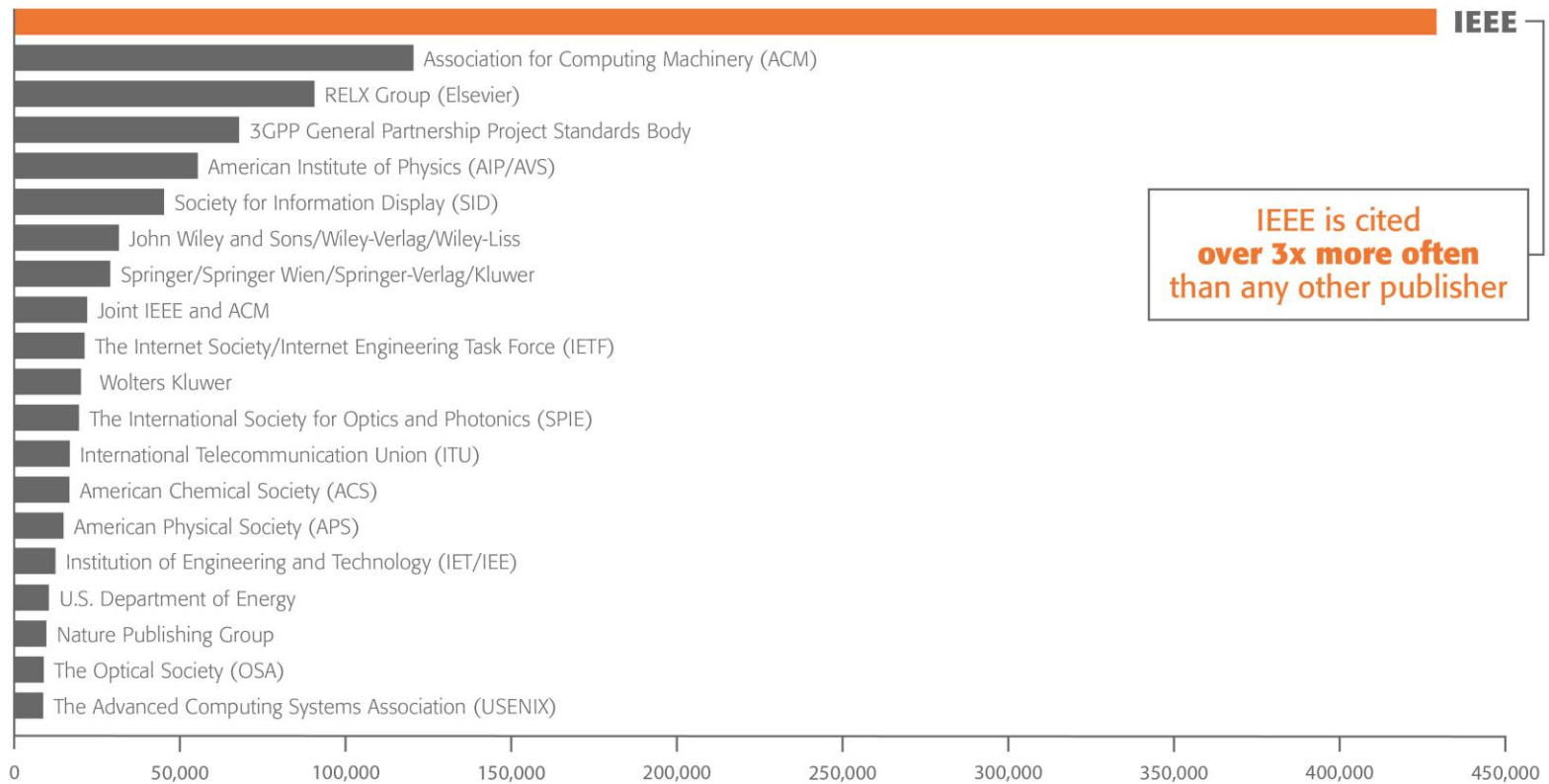
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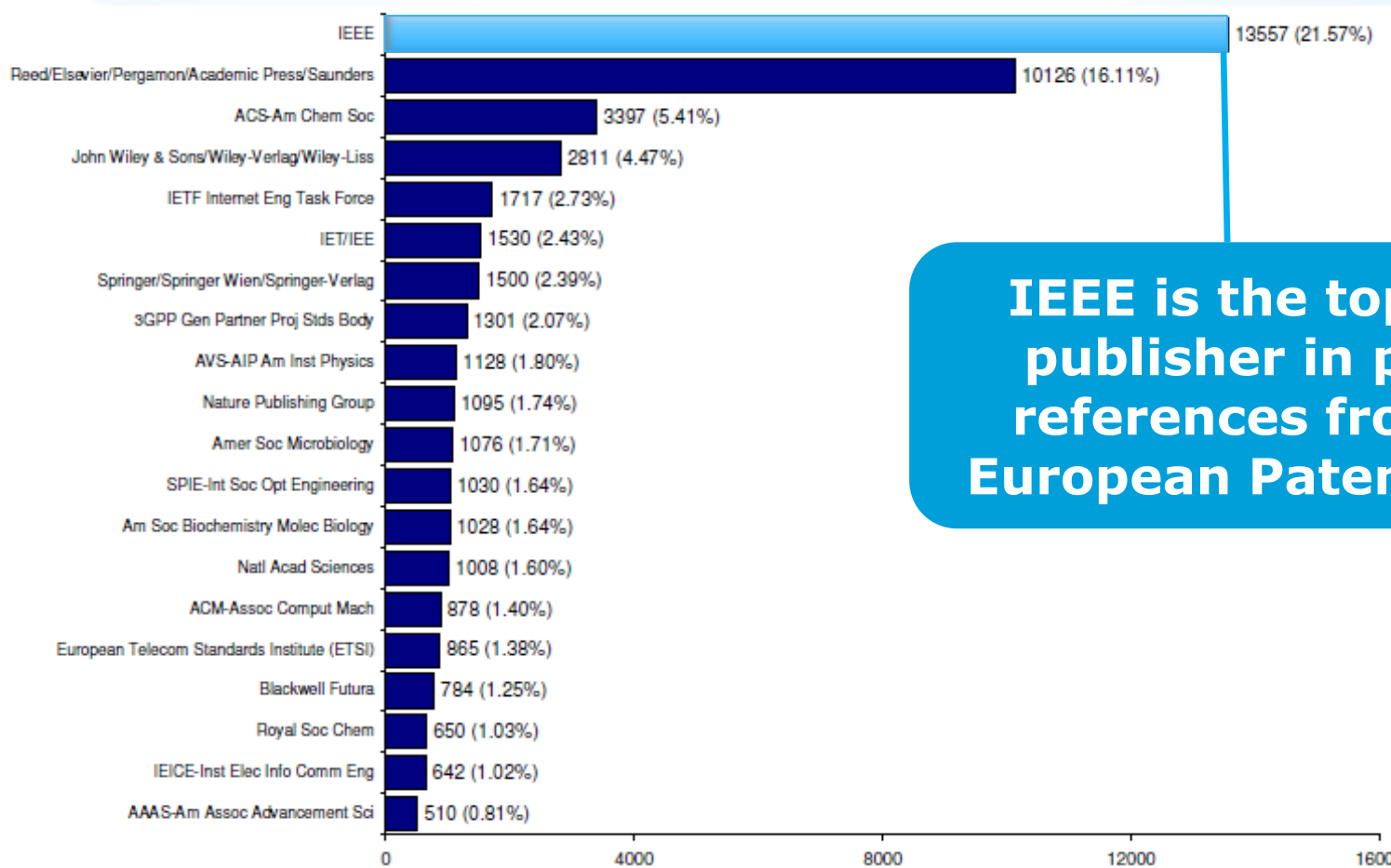
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IEEE is the top cited publisher in patent references from the European Patent Office

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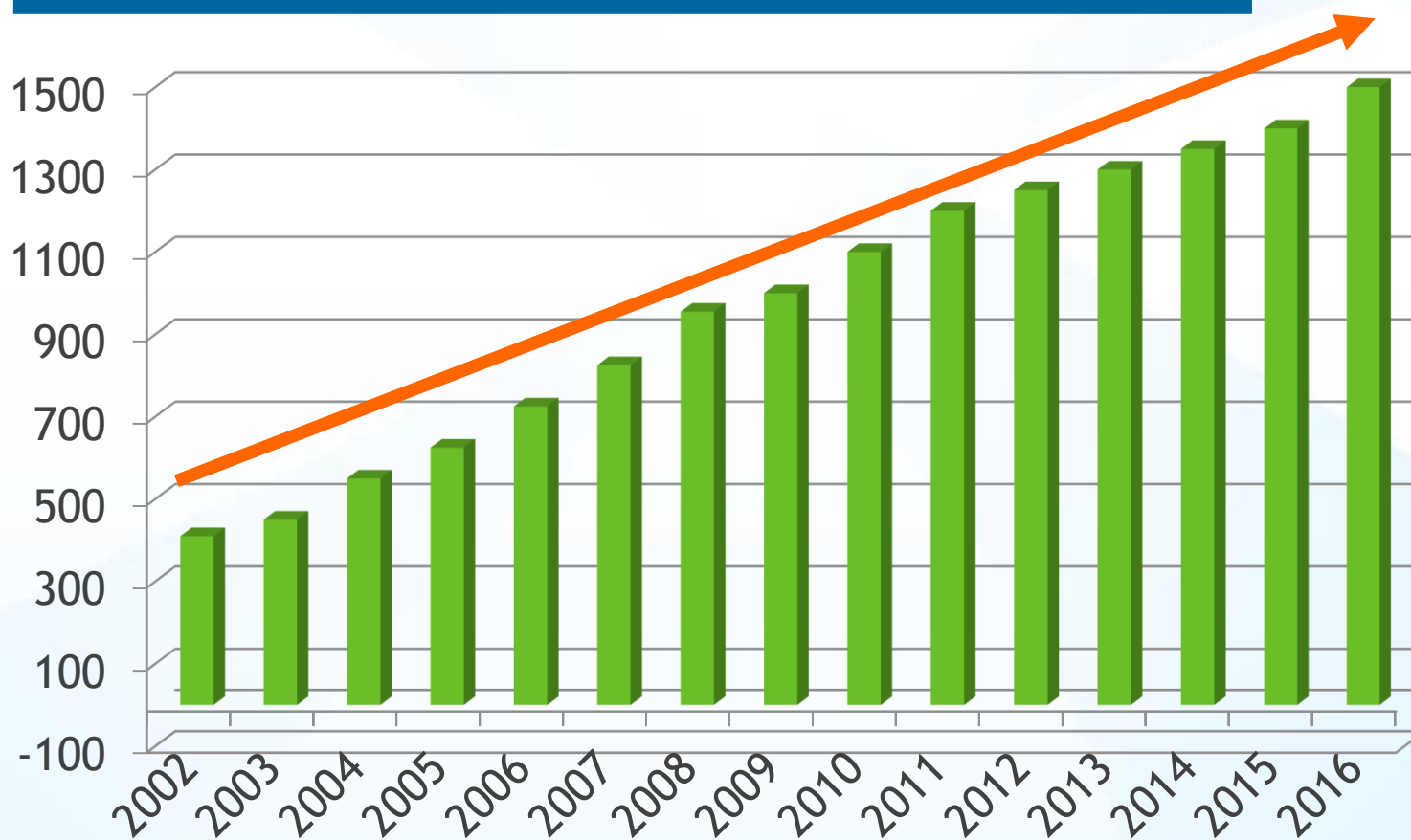
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Conference Title

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2016 IEEE/OES China **Ocean Acoustics** (COA)

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2016 International Forum **Big Data** Day Baku (BDDDB)

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2016 1st IEEE Intl Verification and **Security** Workshop (IVSW)

2016 IEEE Intl Conf on **Cloud Computing** and **Big Data** Analysis (ICCCBDA)

2016 IEEE Intl Conf on **Rebooting Computing** (ICRC)

2016 IEEE Intl Conf on **Intelligent Transportation** Engineering (ICITE)

2016 IEEE/CSAA International Conference on **Aircraft Utility** Systems (AUS)

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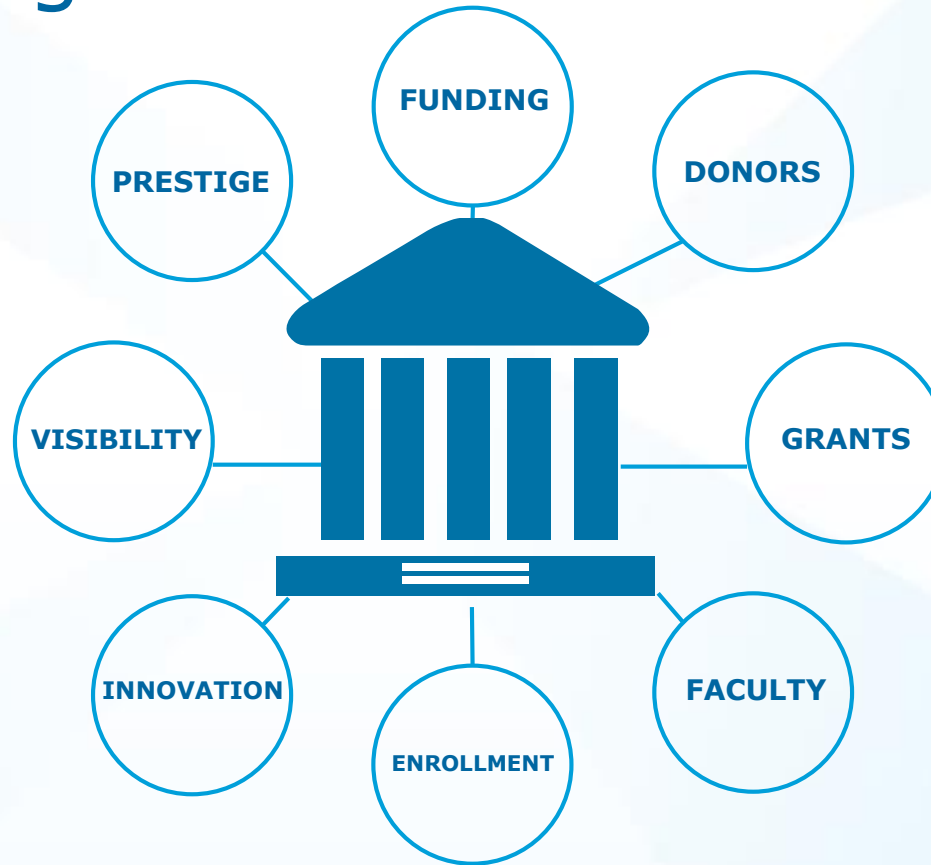
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The theory, design and application of Control Systems. It shall encompass components, and the integration of these components, as are necessary for the construction of such systems. The word 'systems' as used herein shall be interpreted to include physical, biological, organizational and other entities and combinations thereof, which can be represented through a mathematical symbolism. The Field of Interest: shall include scientific, technical, industrial or other activities that contribute to this field, or utilize the techniques or products of this field, subject, as the art develops, to additions, subtractions, or other modifications directed or approved by the IEEE Technical Activities Board.

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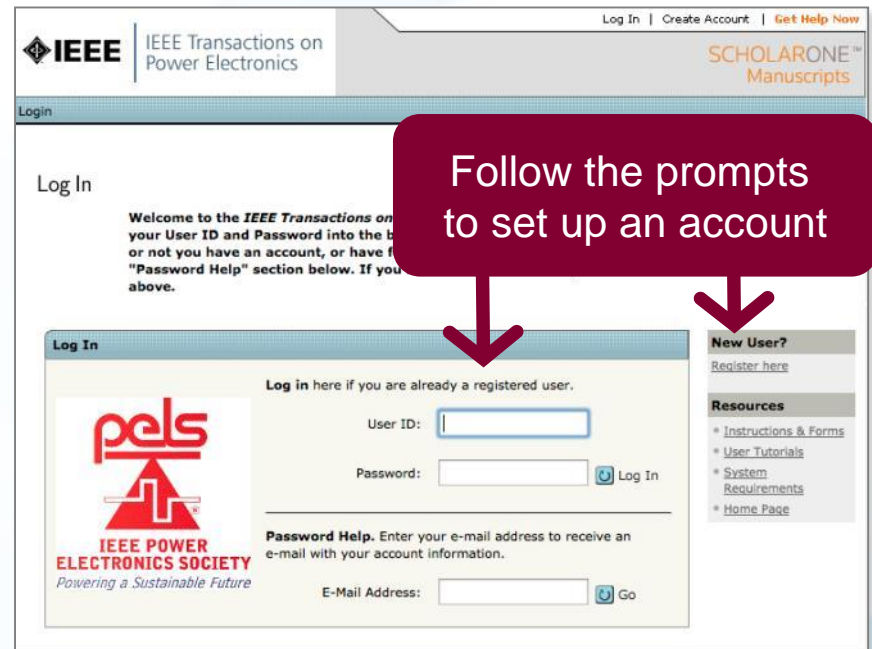
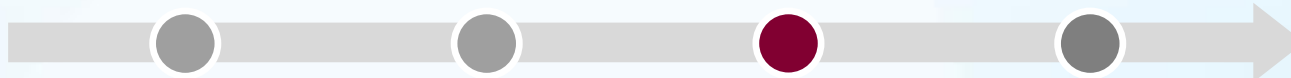


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Conference Details

Dates	09 Oct - 12 Oct 2012
Location	Seoul Olympic Parktel Seoul, Korea (South)
Web site	www.vppc2012.org
Contact	Min Jung Kim Room 901, Science & Technology Building, 635-4, Yucksam-Dong, Kangnam-Ku Korea (South) Seoul 135-703 +82 70 8222 3371 +82 10 9156 3571 +82 2 3412 8723 (fax) secretariat@vppc2012.org
Conference #	20159
Attendance	450

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2019 20th International Conference on Solid-State Sensors, Actuators and Microsystems & Eurosensors XXXIII (TRANSDUCERS & EUROSENSORS XXXIII) Abstract submission deadline: 04 Dec 2018	23 Jun - 27 Jun 2019	Estrel Hotel & Congress Center Sonnenallee 225 Berlin, Germany
2018 IEEE Visualization Conference (VIS)	21 Oct - 26 Oct 2018	Germany
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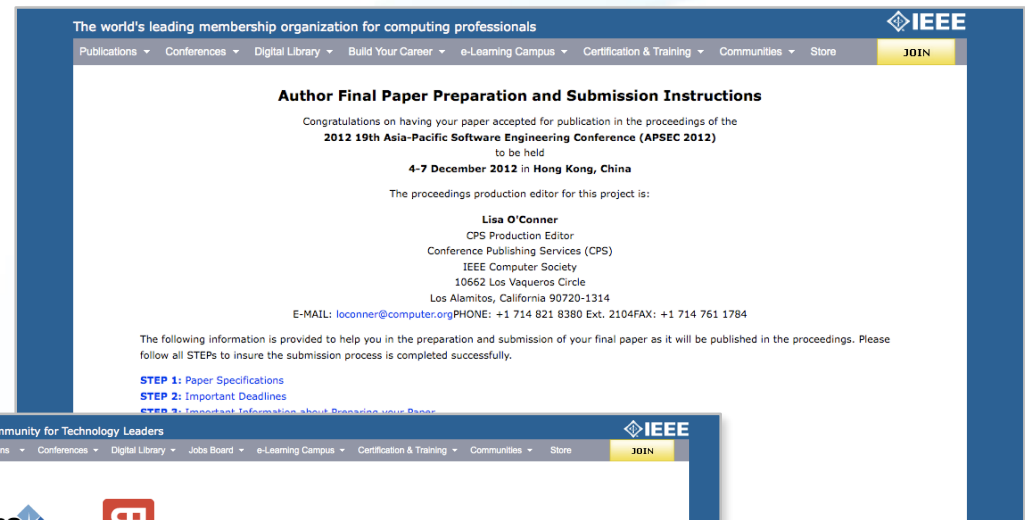
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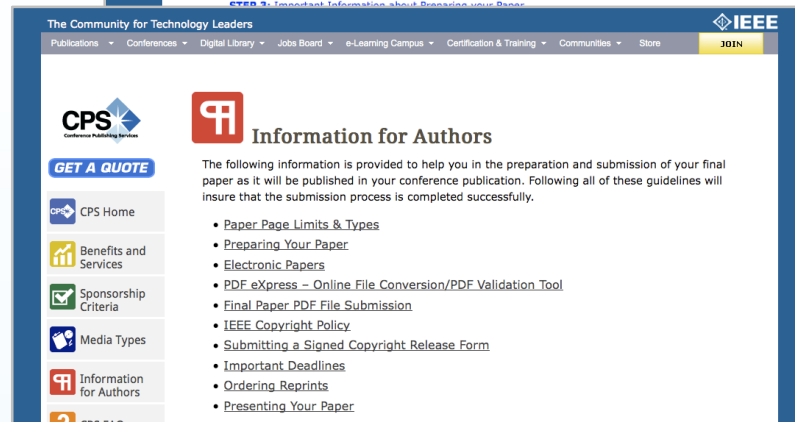
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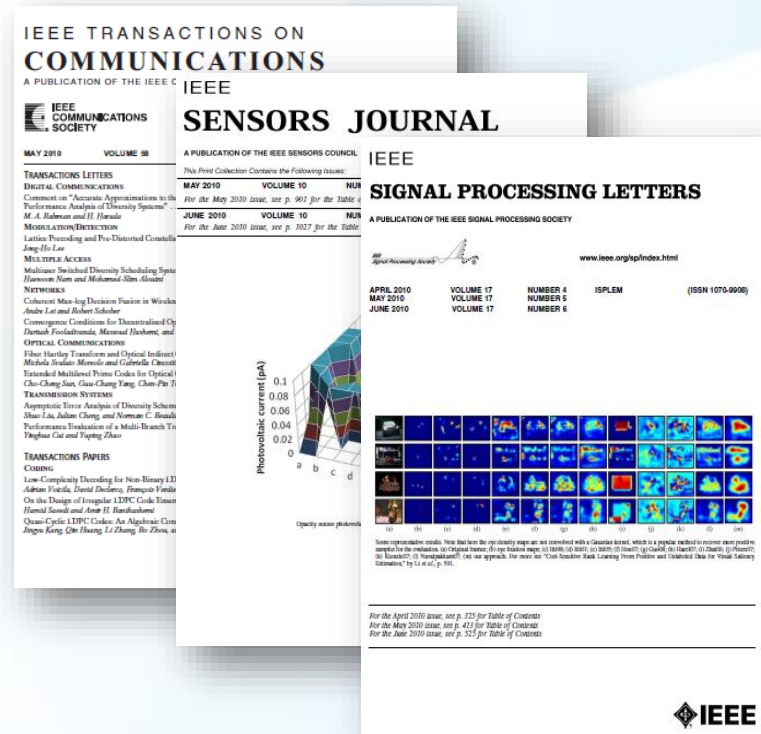
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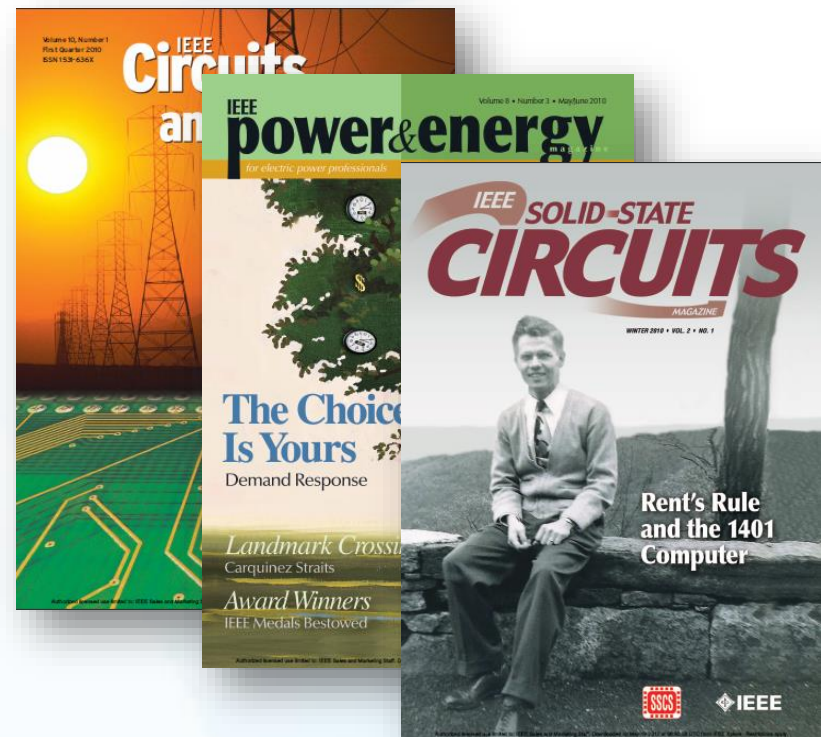
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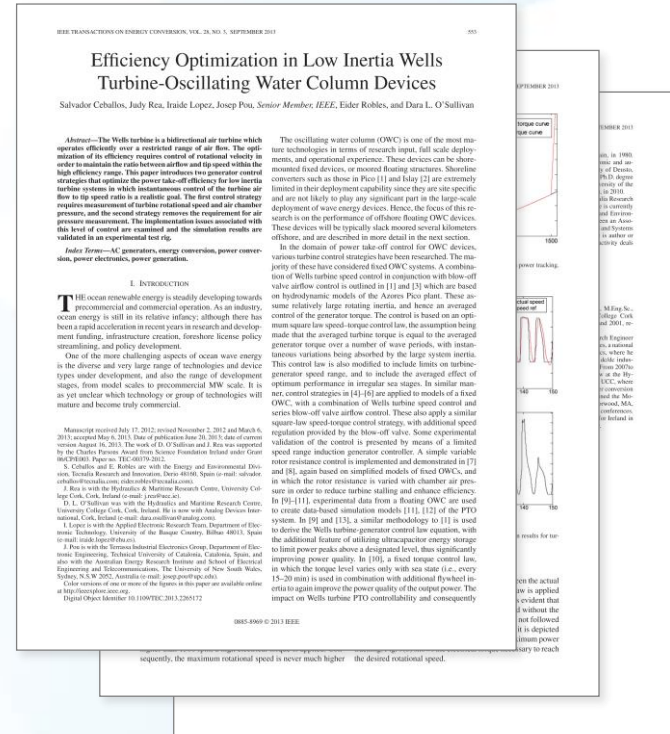
Introduction

Methodology

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Paper Structure

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- 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

What you did

Why you did

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

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

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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

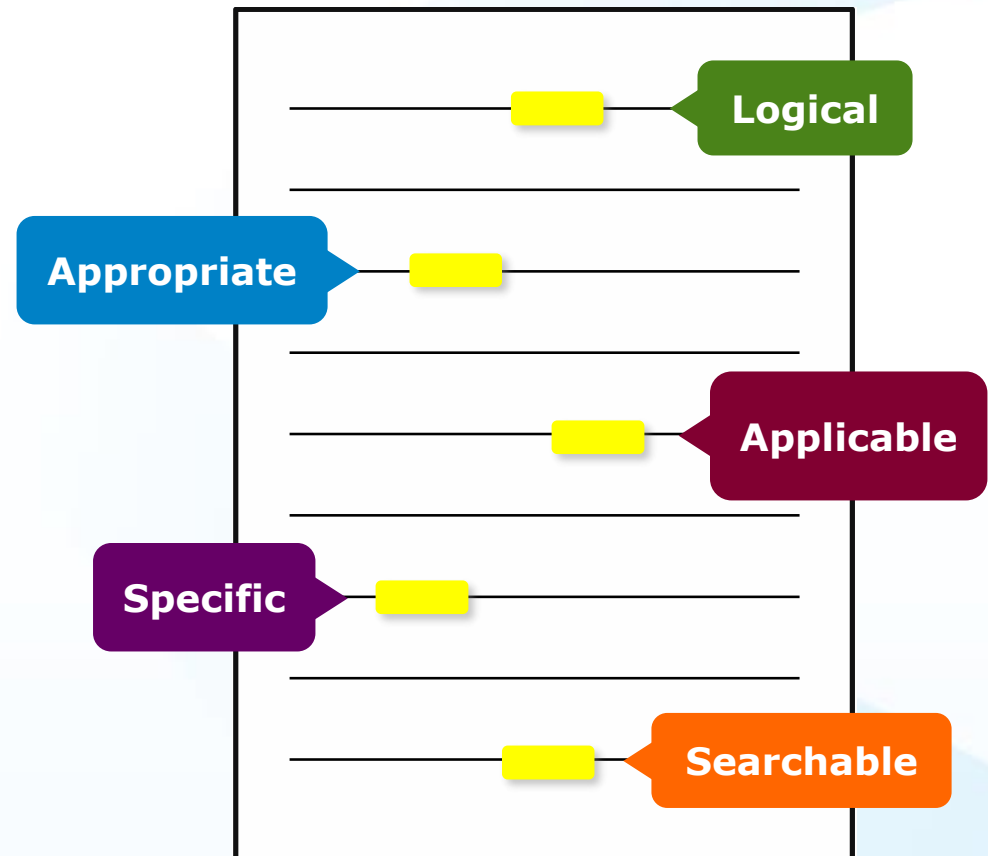
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe**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



IEEE Keywords

Bit rate, Decoding, Encoding, Parallel processing, Video coding

Authors Keywords

High Efficiency Video Coding (HEVC), parallel programming, video coding

INSPEC: Controlled Indexing

parallel processing, video coding

INSPEC: Non-Controlled Indexing

12-core system, H.264-advanced video coding, HEVC parallelization approaches, OWF, WPP, frequency 3.33 GHz, high efficiency video coding, overlapped wavefront, parallel efficiency, parallel friendliness, parallel scalability, parallelization proposals, tiles, wavefront parallel processing

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Paper Structure

Introduction

- A description of the problem you researched
- It should move step by step through, should be written in present tense:

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

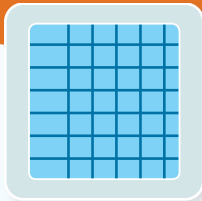
Paper Structure

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



Types of Graphics

■ ***Color/Grayscale figures***

Figures that are meant to appear in color, or shades of black/gray. Such figures may include photographs, illustrations, multicolor graphs, and flowcharts.

■ ***Lineart figures***

Figures that are composed of only black lines and shapes. These figures should have no shades or half-tones of gray. Only black and white.

■ ***Tables***

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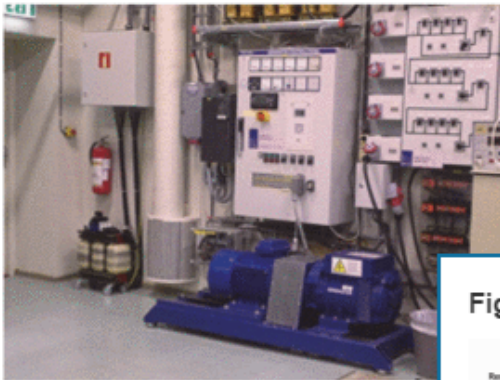
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Metrics

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Fig.1.



Distributed generation system emulator set with control system in the laboratory

Fig. 2.

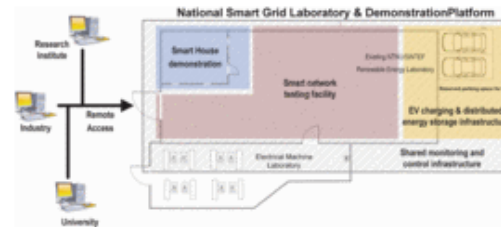
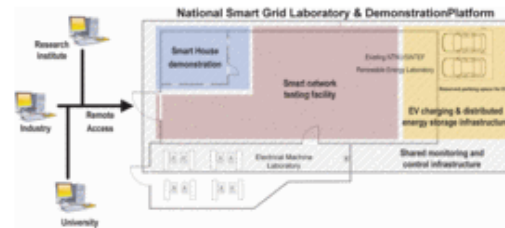


Fig. 2.



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Fig. 3.



Facilities of the demo network distributed across Norway



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Equations: Copy Source Code

The Test Case Prioritization Problem.

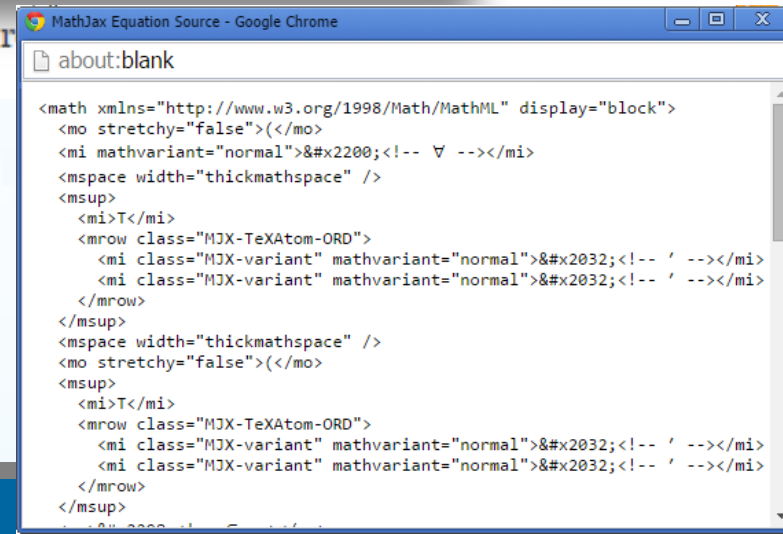
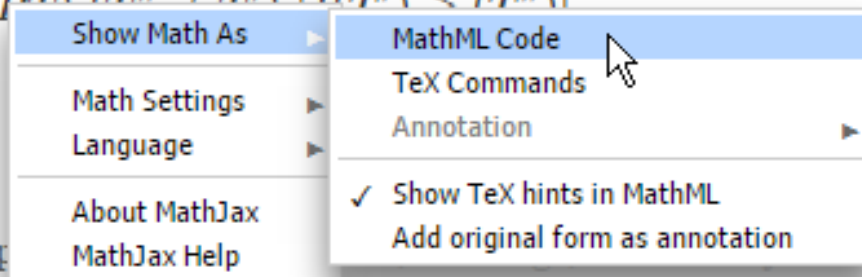
Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

Problem: Find $T' \in PT$ such that

$$(\forall T'' (T'' \in PT) (f(T'') > f(T') \rightarrow (T'' > T')))$$

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Here, PT represents the set of all permutations of T . The function f is a function that, applied to any such ordering, yields an award.



Equations: Zoom Function

The Test Case Prioritization Problem.

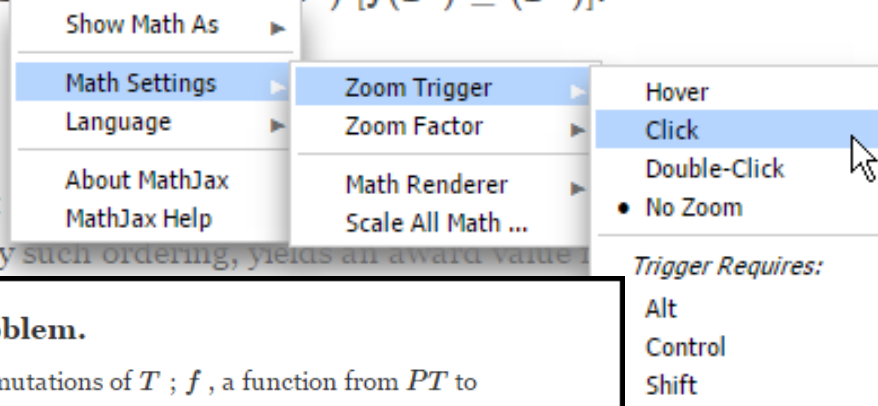
Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

Problem: Find $T' \in PT$ such that

$$(\forall T'' (T'' \in PT) (T'' \neq T') [f(T') \geq (T'')]).$$

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Here, PT represents the set of all possible prioritizations (orderings) of T and f is a function that, applied to any such ordering, yields an award value for that ordering.



The image shows a context menu for a MathJax equation. The menu is open, showing options for 'Show Math As', 'Math Settings', 'Language', 'About MathJax', and 'MathJax Help'. The 'Math Settings' submenu is also open, showing 'Zoom Trigger', 'Zoom Factor', 'Math Renderer', and 'Scale All Math ...'. The 'Zoom Trigger' submenu is further open, showing 'Hover', 'Click', 'Double-Click', and 'No Zoom'. The 'Click' option is selected. Below the 'Click' option, there is a section titled 'Trigger Requires:' with options for 'Alt', 'Control', and 'Shift'.

The Test Case Prioritization Problem.

Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

Problem: Find $T' \in PT$ such that

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Here, PT represents the set of all possible prioritizations (orderings) of T and f is a function that, applied to any such ordering, yields an award value for that ordering.

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 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 in this letter in the sense that the information about the τ and L_{a} 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 τ , L_{a} , and L_{w} 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 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-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

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We then have

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

Since $P_1^{n+} - P_1^{n-} = P_1^{n+} - \hat{P}_1^{n-}$, we then have $P_1^{n+} < P_1^{n+}$, and $P_1^{n-} < P_1^{n-}$. Because the operational cost is an increasing function of $\{P_1^{n+}, P_1^{n-}\}$, we obtain that

$$c_{opt}(P_1^{n+}, P_1^{n-}) < c_{opt}(\hat{P}_1^{n+}, \hat{P}_1^{n-}). \quad (33)$$

Therefore the optimal pair $\{P_1^{n+}, P_1^{n-}\}$ must satisfy that $P_1^{n+}P_1^{n-} = 0$, i.e., only one of P_1^{n+}, P_1^{n-} can be non-zero. ■

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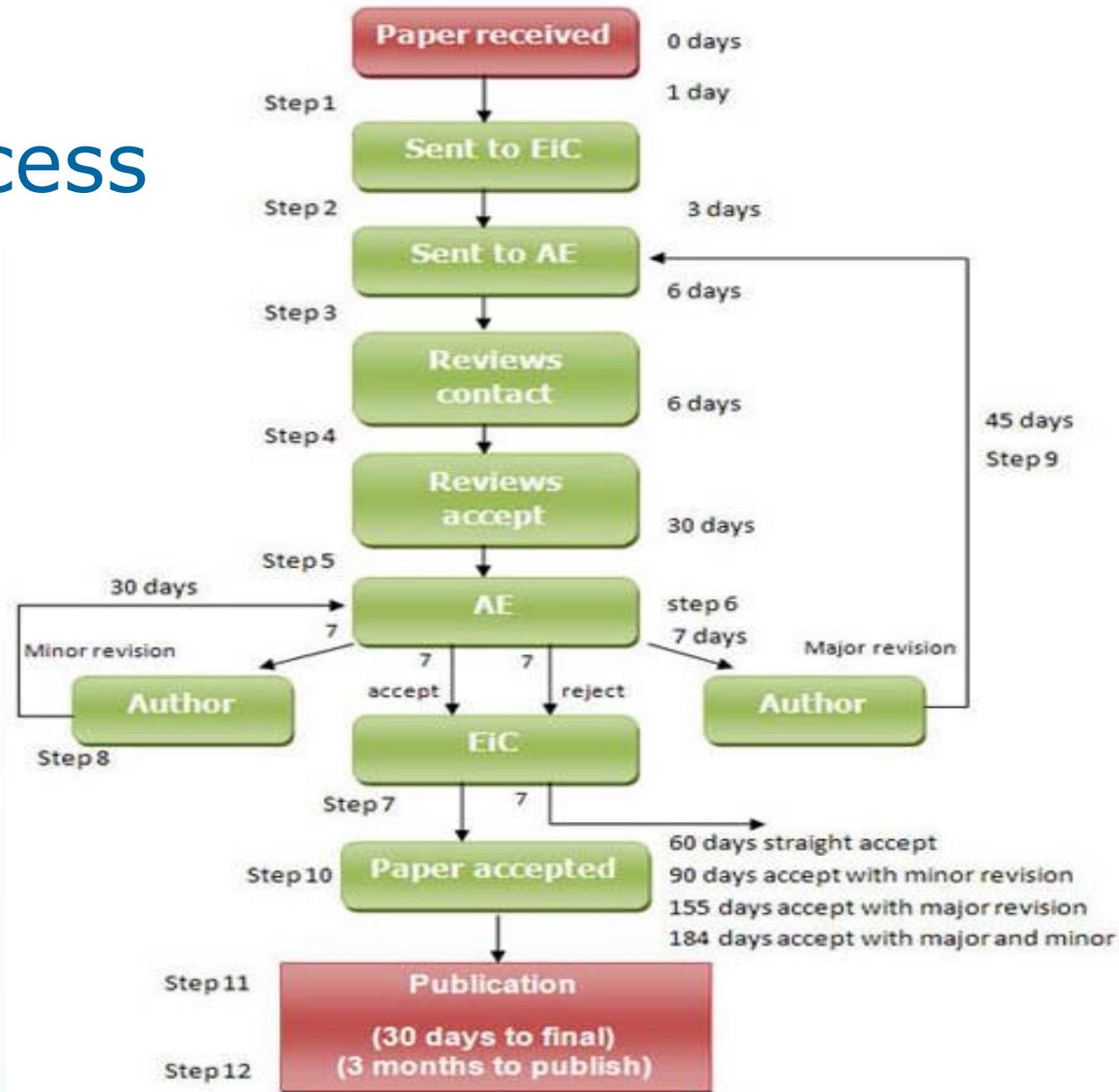
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Review Review Process



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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.
- **ACCEPT with MAJOR CORRECTIONS:** 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 an other journal.

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**
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- Present **new methods** of analysis or experimentation.
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- Be written in **clear and understandable language**.
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Two situations in which a paper should be returned to the author for revisions:

- If the paper is **not written in clear and understandable** language. In this case the authors should have the opportunity and the obligation to make the paper understandable. Returning a paper under these circumstances does not imply that the paper will eventually be accepted.
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Ethics

Ethics

Types of misconduct

Conflict of Interest

- A financial or other relationship with the publication at odds with the unbiased presentation of data or analysis

Plagiarism

- Copying another person's work word for word or paraphrasing without proper citation

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- Include any and all who have made a substantial intellectual contribution to the work
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Ethics

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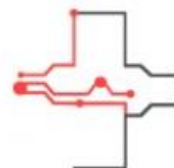


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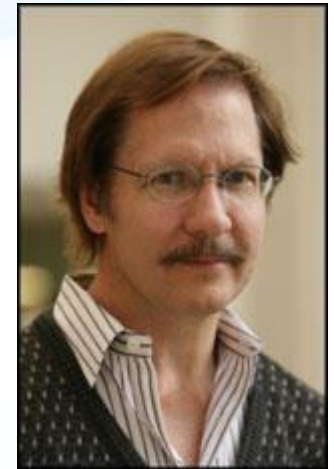
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S. B. Author, Jr. was with Rice University, Houston, TX 77005 USA. He is now with the Department of Physics, Colorado State University, Fort Collins, CO 80523 USA (e-mail: author@lamar.colostate.edu).

T. C. Author is with the Electrical Engineering Department, University of Colorado, Boulder, CO 80509 USA, on leave from the National Research Institute for Metals, Tsukuba, Japan (e-mail: author@nim.go.jp).

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Use one space after periods and colons. Hyphenate complex modifiers: "zero-field-cooled magnetization." Avoid dangling participles, such as, "Using (1), the potential was calculated." [It is not clear who or what used (1).] Write instead, "The potential was calculated by using (1)," or "Using (1), we calculated the potential."

Use a zero before decimal points: "0.25," not ".25." Use "cm²," not "cc." Indicate sample dimensions as "0.1 cm × 0.2 cm," not "0.1 × 0.2 cm²." The abbreviation for "seconds" is "s," not "sec." Use "W/m²" or "watts per square meter," not "watts/m²." When expressing a range of values, write "7 to 9" or "7-9," not "7-9."



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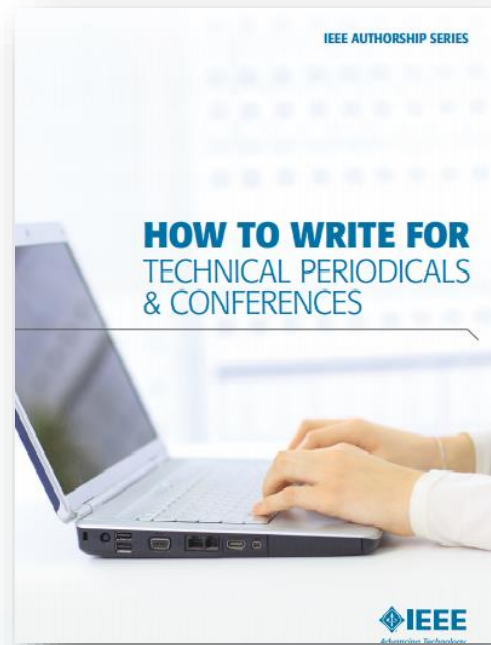
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