

How to write a technical paper for the IEEE?

Lukács Eszter

Client Services Manager Europe

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- Four Core areas of activity
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 - Conferences organizer
 - Standards developer
 - Publisher of journals, conferences, standards, ebooks and elearning
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 - Nearly 4 million total documents
 - Over 3 million unique users
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 - 15 year anniversary in 2015!



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

IEEE quality makes an impact

Thomson Reuters Journal Citation Reports® by Impact Factor

IEEE publishes:

17 of the top 20 journals in Electrical and Electronic Engineering

14 of the top 15 journals in Telecommunications

3 of the top 5 journals in Computer Science, Hardware & Architecture

3 of the top 5 journals in Computer Science, 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 Imaging Science & Photographic Technology

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Based on the 2015 study released June 2016

More info: www.ieee.org/citations

IEEE quality makes an impact

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- # 1 in Computer Hardware
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- # 3 in Aerospace Engineering



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

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IEEE and Patents

IEEE research powers new patents



**Analysis of Patent Referencing to IEEE Papers,
Conferences, and Standards 1997-2014**

Report prepared for:

Institute of Electrical and Electronic Engineers
445 Hoes Lane
Piscataway, NJ 08855, USA

Report prepared by:

1790 Analytics LLC
130 Haddon Avenue
Haddonfield, NJ 08033
www.1790analytics.com

May 14, 2015

A study of the top 40 patenting organizations ranks IEEE #1 again

- Over three times more citations than any other publisher
- **Patent referencing to IEEE increased 896%** since 1997
- The importance of sci-tech literature in patents is rising
- IEEE research is increasingly valuable to innovators

1790 Analytics LLC performed an in-depth analysis of the science references from top patenting firms.

Source: 1790 Analytics LLC 2015

IEEE Leads US Patent Citations

Top 20 Publishers Referenced Most Frequently by Top 40 Patenting Organizations

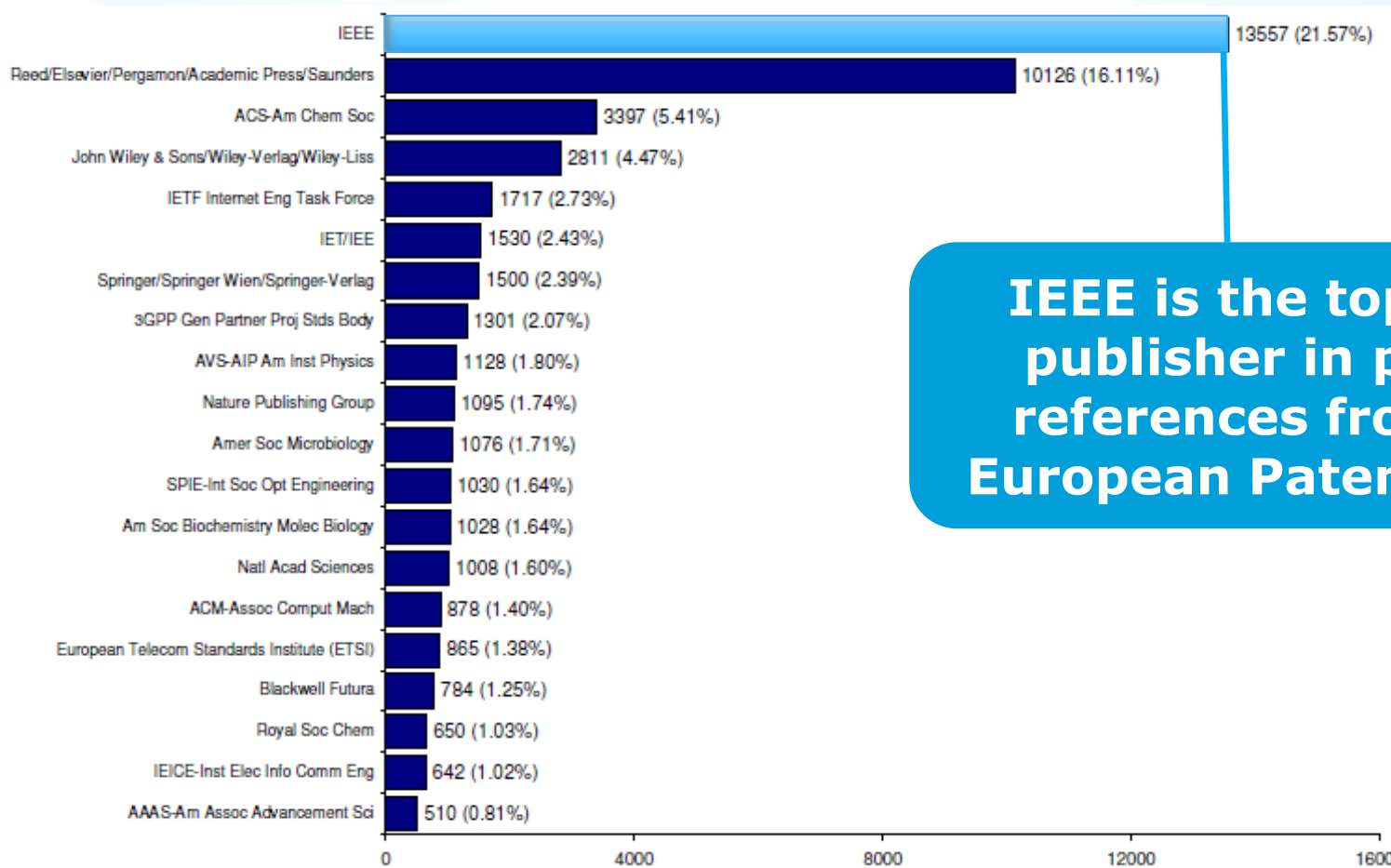


Source: 1790 Analytics LLC 2015. Based on number of references to papers/standards/conferences from 1997-2014



IEEE Leads European Patent Citations

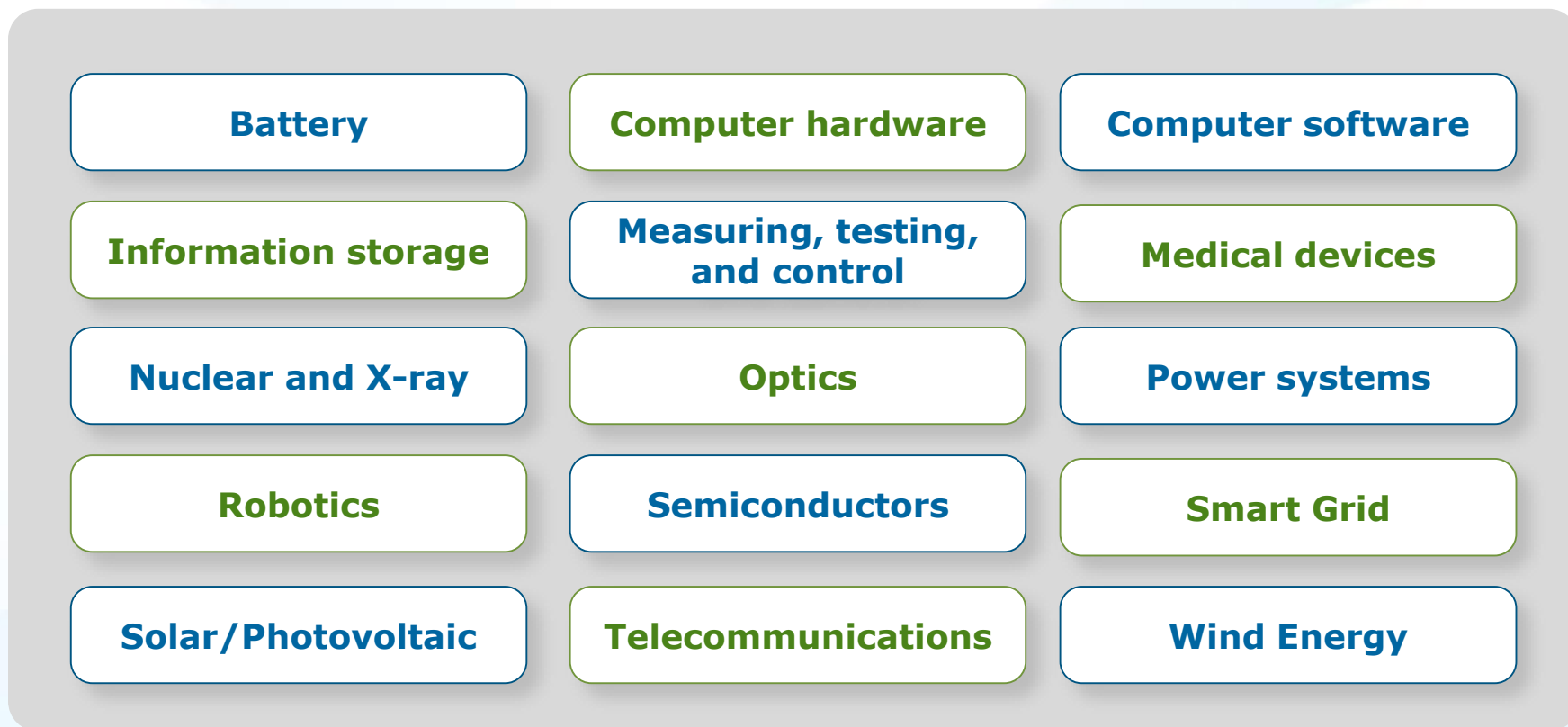
Top 20 Publishers Referenced Most Frequently by Top 25 Patenting Organizations



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

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

Technology areas where patents cite IEEE most



Source: 1790 Analytics LLC 2015

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IEEE Society on Social Implications of Technology

IEEE Solid-State Circuits Society

IEEE Systems, Man, and Cybernetics Society

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IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society

IEEE Vehicular Technology Society

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More than just electrical engineering & computer science

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SEMICONDUCTORS **SMART GRID**

IMAGING NANOTECHNOLOGY

SIGNAL PROCESSING **AEROSPACE**

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ELECTROMAGNETICS



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- Examples of IEEE publications:
 - **IEEE Pulse**
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 - **IEEE Reviews on Biomedical Engineering**
 - **IEEE Trans. on Neural Systems and Rehabilitation Engineering**
 - **IEEE Trans. on Information Technology in Biomedicine**
 - **IEEE Trans. on Medical Imaging**
 - **IEEE/ACM Trans. on Computational Biology and Bioinformatics**
 - **IEEE Trans. on Biomedical Circuits and Systems**
 - **IEEE Trans. on NanoBioscience**
 - **IEEE Trans. on Autonomous Mental Development.**

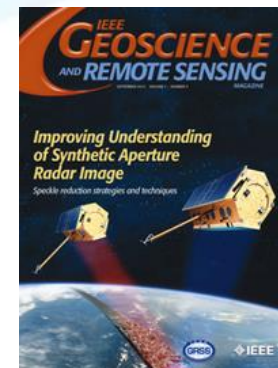


Geoscience and related fields

- IEEE's geoscience and remote sensing publications cover the fusion of engineering and **geoscientific fields including geophysics, geology, hydrology, meteorology, etc.**

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 - **IEEE Geoscience & Remote Sensing Letters**
 - **IEEE International Symposium Geoscience and Remote Sensing (IGARSS)**
 - **IEEE Petroleum and Chemical Industry Technical Conference (PCIC)**



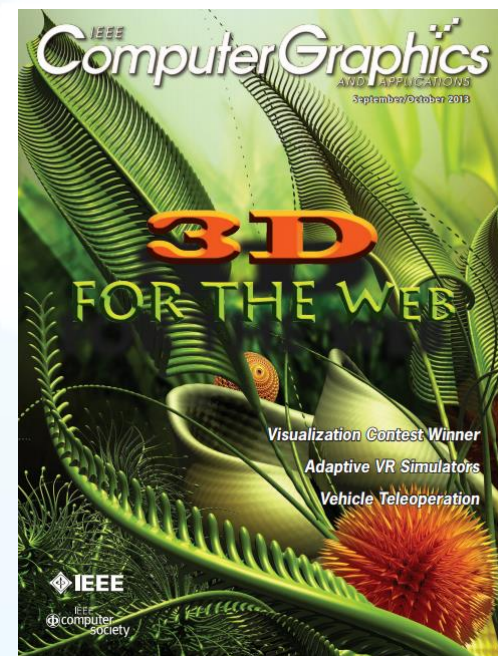
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 - IEEE/ASME Transactions on Mechatronics (#1 most cited journal in Engineering - Manufacturing)
 - IEEE Transactions on Components, Packaging and Manufacturing Technology
 - IEEE Transactions on Semiconductor Manufacturing
 - IEEE Transactions on Automation Science and Engineering
 - IEEE Robotics & Automation Magazine
 - IEEE International Symposium on Assembly and Manufacturing
 - International Conference on Digital Manufacturing and Automation
 - e-Manufacturing & Design Collaboration Symposium Electronics Manufacturing Technology Symposium
 - International Conference on System Science, Engineering Design and Manufacturing Informatization



Digital Art & Technology

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- Topics include **computer graphics, design, animation, 3D, user interface, motion graphics**, and more
- Examples of IEEE *Xplore* publications:
 - IEEE Computer Graphics
 - IEEE Trans. On Visualization & Computer Graphics
 - International Conference on Computer-Aided Design & Computer Graphics
 - International Conference on Computer Graphics, Imaging & Visualization
 - International Conference on Image & Graphics



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- Topics include **game production, computational intelligence, artificial intelligence, simulations,** and more
- Examples of IEEE *Xplore* publications:
 - IEEE Trans. On Computational Intelligence and AI in Games
 - Symposium on Computational Intelligence in Games
 - International Conference on Computer Games
 - International Workshop on Digital Game and Intelligent Toy Enhanced Learning
 - International Symposium on Haptic, Audio, Visual Environments and Games

Computational Intelligence in Games 2014
August 26 – 29, Park Inn Hotel, Dortmund, Germany

www.cig2014.de April 1, 2014 IEEE Explore

Mark Rieffl
Georgia Institute of Technology

Jochen Peckert
Blue Byte GmbH

Rilla Khaled
University of Malta

Thorsten Quandt
West Virginia University Münster

Computational & artificial intelligence in:
• Video games
• Board and card games
• Economic or mathematical games
• Serious games
• Augmented and mixed-reality games
• Games for mobile platforms

Calls for Special Sessions (March 1) and Tutorials (April 1) OPEN!

Learning in games
• Procedural content generation
• Player/opponent modeling in games
• Player affective modeling
• Player satisfaction and experience in games
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• Non-player characters in games
• Comparative studies and game-based benchmarking
• Applications of game theory

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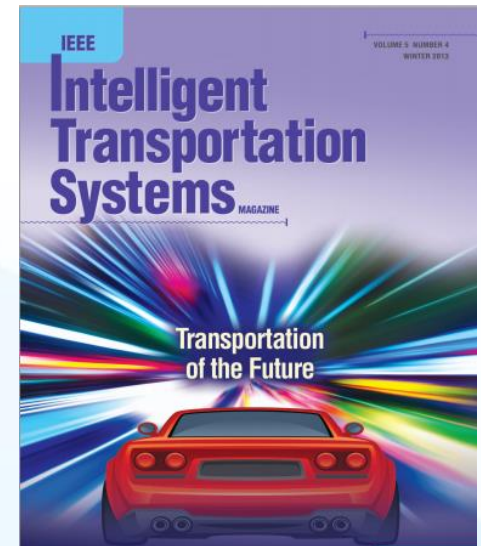
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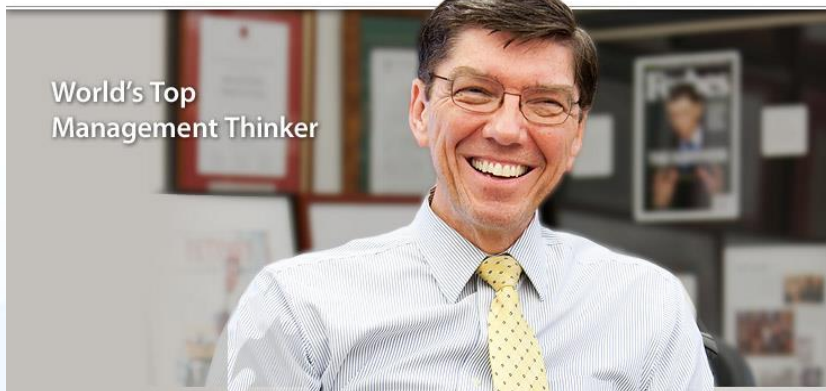
- Related IEEE Journals & Conferences:
 - IEEE Trans. on Intelligent Transportation Systems
 - IEEE Intelligent Transportation Systems Magazine
 - IEEE Trans. on Automation Science and Engineering
 - IEEE International Conference on Automation and Logistics



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Harvard Business School

“Innovator’s Dilemma”

<http://www.claytonchristensen.com/>

Optimal Detection of Sparse Mixtures against a Given Null Distribution

T. Tony Cai and Yihong Wu, Member, IEEE.

Abstract—Detection of sparse signals arises in a wide range of modern scientific studies. The focus so far has been mainly on Gaussian mixture models. In this paper, we consider the detection problem under a general sparse mixture model and obtain explicit expressions for the detection boundary under mild regularity conditions. Moreover, for Gaussian null hypothesis, we establish the adaptive optimality of the higher criticism procedure for all sparse mixtures satisfying the same conditions. In particular, the general results obtained in this paper recover and extend in a unified manner the previously known results on sparse detection far beyond the conventional Gaussian model and other exponential families.

Index Terms—Hypothesis testing, high-dimensional statistics, sparse mixture, higher criticism, adaptive tests, total variation, Hellinger distance.

I. INTRODUCTION

Detection of sparse mixtures is an important problem that

according to Ray(α_i), representing the random voltages observed on the n channels. In the absence of noise, α_i 's are all equal to one, the nominal value; while in the presence of signal, exactly one of the α_i 's becomes a known value $\alpha > 1$. Denoting the uniform distribution on $[n]$ by U_n , the goal is to test the following competing hypotheses:

$$H_0^{(\alpha)} : \alpha_i = 1, i \in [n], \quad (1)$$

$$\text{v.s. } H_1^{(\alpha)} : \alpha_i = 1 + (\alpha - 1)1_{\{i=J\}}, J \sim U_n.$$

Since the signal only appears once out of the n samples, in order for the signal to be distinguishable from noise, it is necessary for the amplitude α to grow with the sample size n (in fact, at least logarithmically). By proving that the log-likelihood ratio converges to a stable distribution in the large- n limit, Dobrushin [1] obtained sharp asymptotics of the smallest α in order to achieve the desired false alarm and miss detection

Prof. Tony Cai
The Wharton School of the University of Pennsylvania

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Entertainment: computer graphics, animation, 3D, digital motion pictures, laser projectors, and more

Bringing Physical Characters to Life

Akhil J. Madhani
Walt Disney Imagineering R&D

Ray Tracing for the Movie 'Cars'

Per H. Christensen* Julian Fong David M. Laur Dana Batali

Pixar Animation Studios



Abstract

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entertainment robot
Disney in attraction

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ABSTRACT

This paper describes how we extended Pixar's RenderMan renderer with ray tracing abilities. In order to ray trace highly complex scenes we use multiresolution geometry and texture caches, and use ray differentials to determine the appropriate resolution. With this method we are able to efficiently ray trace scenes with much more geometry and texture data than there is main memory. Movie-quality rendering of scenes of such complexity had only previously been possible with pure scanline rendering algorithms. Adding ray

texture cache keeps recently accessed texture tiles ready for fast access. This combination of ray differentials and caching makes ray tracing of very complex scenes feasible.

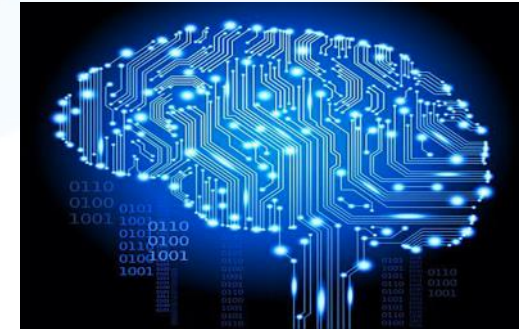
This paper first gives a more detailed motivation for the use of ray tracing in 'Cars', and lists the harsh rendering requirements in the movie industry. It then gives an overview of how the REYES algorithm deals with complex scenes and goes on to explain our work on efficient ray tracing of equally complex scenes. An explanation of our hybrid rendering approach, combining REYES with ray tracing, follows. Finally, we measure the efficiency of our method on a



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In 2017, IEEE will introduce six new journals that will be available for subscription:

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



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



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New IEEE Journals from 2015

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

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A sampling of some of the new conferences added in 2015

- **Big Data Software Engineering** (BIGDSE), 2015 IEEE/ACM 1st International Workshop on
- **Computational Electromagnetics** (ICCEM), 2015 IEEE International Conference on
- **DC Microgrids** (ICDCM), 2015 IEEE First International Conference on
- **Electromagnetic Compatibility and Signal Integrity**, 2015 IEEE Symposium on
- **Identity, Security and Behavior Analysis (ISBA)**, 2015 IEEE International Conference on
- **Industrial Engineering and Operations Management** (IEOM), 2015 International Conference on
- **Microwaves for Intelligent Mobility** (ICMIM), 2015 IEEE MTT-S International Conference on
- **Multimedia Big Data** (BigMM), 2015 IEEE International Conference on
- **Networking Systems and Security** (NSysS), 2015 International Conference on
- **Sampling Theory and Applications** (SampTA), 2015 International Conference on
- **Signal Processing, Informatics, Communication and Energy Systems** (SPICES), 2015 IEEE International Conference on
- **Smart Cities Conference** (ISC2), 2015 IEEE First International

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

Popular IEEE Standards

IEEE 802 Series—IEEE Standard for Ethernet

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IEEE 81-2012™—IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System

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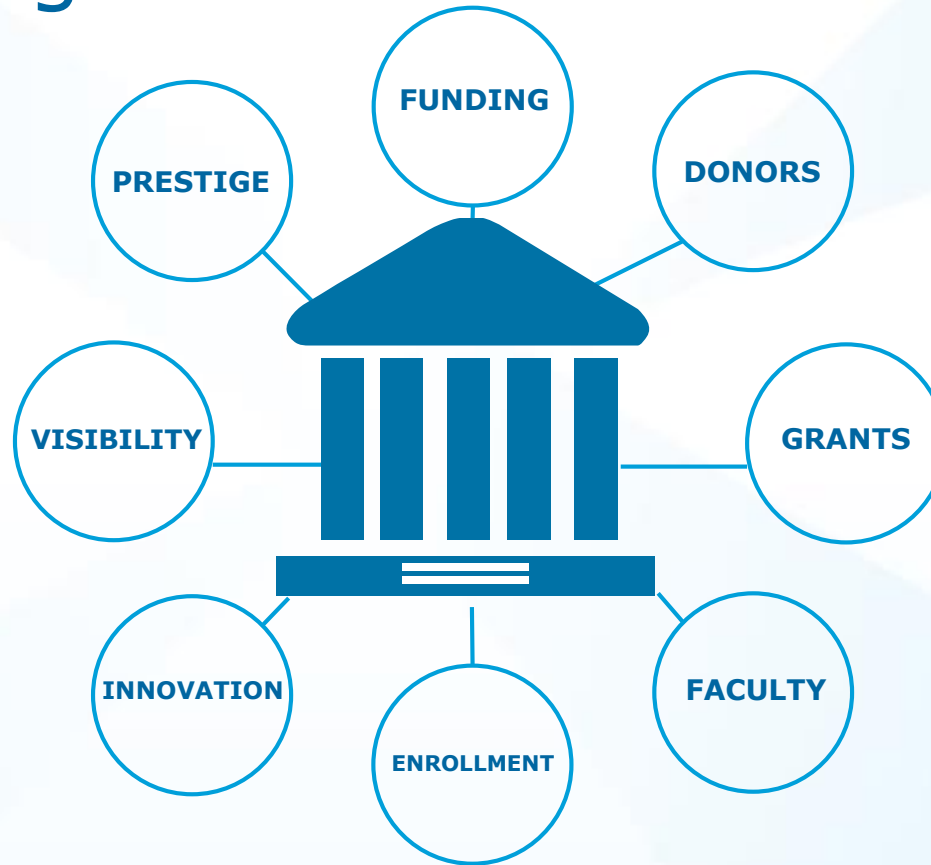
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- IEEE journals are cited 3 times more often in patent applications than other leading publisher's journals



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

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- 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

Duplicate Publication

- IEEE's policy on duplicate publication states
 - *"authors should only submit original work that has neither appeared elsewhere for publication, nor which is under review for another refereed publication. If authors have used their own previously published work(s) as a basis for a new submission, they are required to cite the previous work(s) and very briefly indicate how the new submission offers substantively novel contributions beyond those of the previously published work(s)."*

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Aims & Scope

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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- Vehicular Technology Society - VT

Topic 1: HEV, BEV, FCEV and Plug-In EV System Design. Topic 2: Automotive Actuator and Electric Machinery Topic 3: Power Converter for Automotive Applications Topic 4: Motor Drives for Vehicle Applications Topic 5: Energy and Power Management Topic 6: Power Electronics for Electric Vehicle Couplers Topic 7: Smart Grid and Electrical Infrastructure Topic 8: Power Electronics for Vehicle-to-Grid (V2G) and Vehicle-to-Vehicle (V2V) Topic 9: Telematics (included V2I) Topic 10: Power Electronics for Electric Vehicle

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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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2018 IEEE Frontiers in Education Conference (FIE) Abstract submission deadline: 05 Feb 2018 Full Paper Submission deadline: 23 Apr 2018 Final submission deadline: 09 Jul 2018 Notification of acceptance date: 21 May 2018	03 Oct - 06 Oct 2018	TBD TBD San Jose, CA, USA
2018 IEEE World Congress on Computational Intelligence (WCCI) Full Paper Submission deadline: 01 Feb 2018 Final submission deadline: 01 May 2018 Notification of acceptance date: 01 Apr 2018	08 Jul - 13 Jul 2018	Windsor Barra Convention Centre Rua Martinho de Mesquita Barra da Tijuca Rio de Janeiro, Brazil
2018 IEEE International Symposium on Information Theory (ISIT) Abstract submission deadline: 07 Jan 2018 Full Paper Submission deadline: 07 Jan 2018 Final submission deadline: 22 Apr 2018 Notification of acceptance date: 01 Apr 2018	17 Jun - 22 Jun 2018	Vail Cascade 1300 Westhaven Drive Vail, CO, USA
2018 IEEE Symposium on Security and Privacy (SP) Full Paper Submission deadline: 16 Nov 2017 Final submission deadline: 31 Mar 2018 Notification of acceptance date: 11 Feb 2018	20 May - 24 May 2018	Hyatt Regency San Francisco 5 Embarcadero Center San Francisco, CA, USA

IEEE Electron Devices Society

■ <http://eds.ieee.org/eds-meetings-calendars.html>

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2016 International Symposium on VLSI Technology, Systems and Application (VLSI-TSA) Taiwan Number of Attendees: 400	Apr 25, 2016 - Apr 27, 2016
2016 5th International Symposium on Next-Generation Electronics (ISNE) Hsinchu, Taiwan Number of Attendees: 300	May 4, 2016 - May 6, 2016
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Structure

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

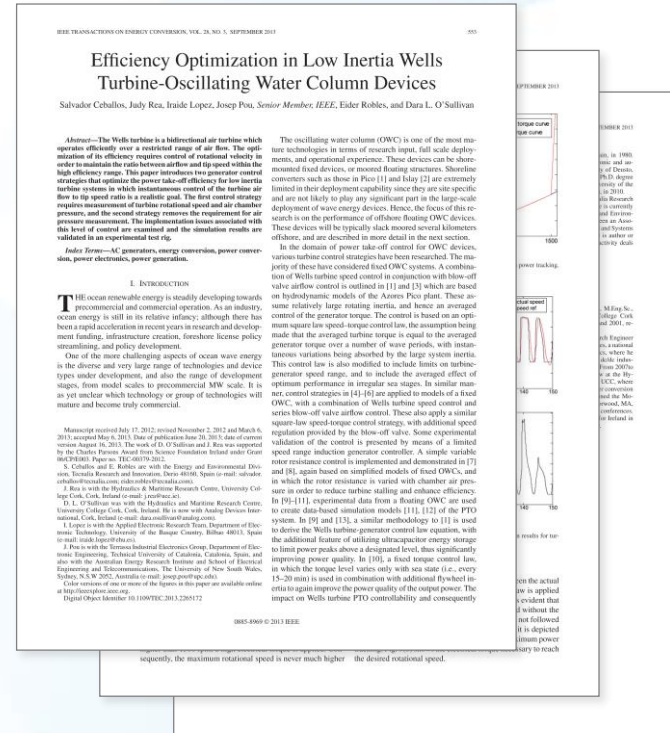
Introduction

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

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

Abstract:

http://eds.ieee.org/images/files/Publications/ed_info_for_authors.pdf

The abstract must be a **concise yet comprehensive reflection of what is in your article**. In particular, the abstract must be as follows.

- 1) Self-contained, without abbreviations, footnotes, or references; it should be a **microcosm of the full article**
- 2) Between **150-250 words**. Be sure that you adhere to these limits; otherwise, you will need to edit your abstract accordingly.
- 3) Written as **one paragraph**, and should **not contain** displayed **mathematical equations or tabular material**.
- 4) Should include **three or four different keywords or phrases**, as this will help readers to find it. It is important to avoid over-repetition of such phrases as this can result in a page being rejected by search engines.
- 5) Ensure that your abstract **reads well and is grammatically correct**.

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

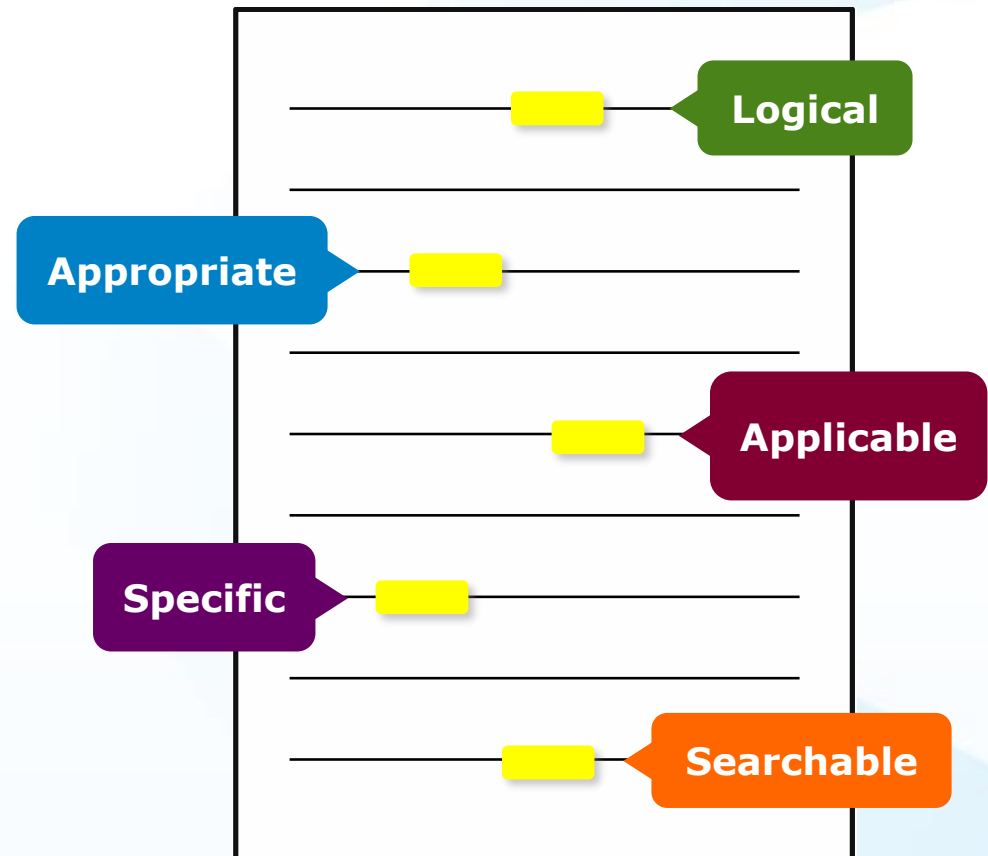
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe**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

Keywords link to potential reviewers

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<https://www.computer.org/web/peer-review/journals#Length of Review Process>

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



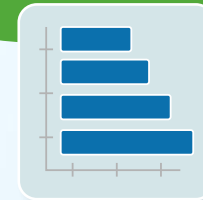
Figures

Quickly show ideas/conclusions that would require detailed explanations



Graphs

Show relationships between data points or trends in data



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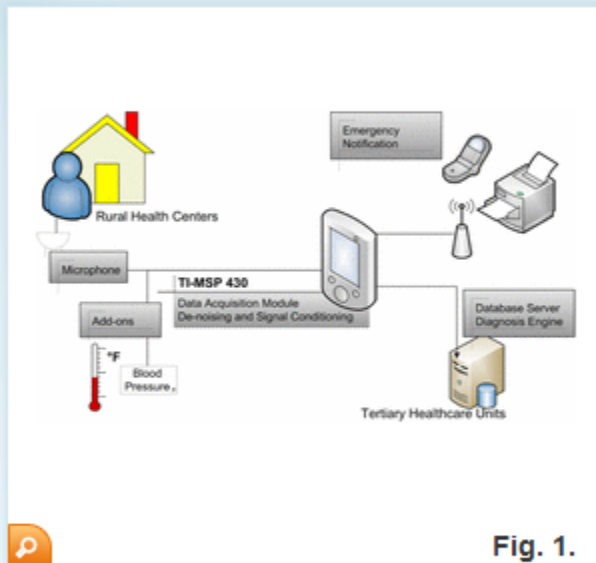


Fig. 1.

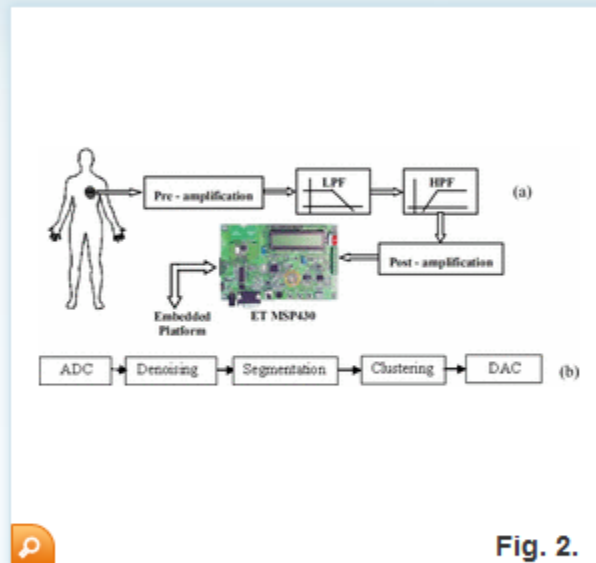


Fig. 2.

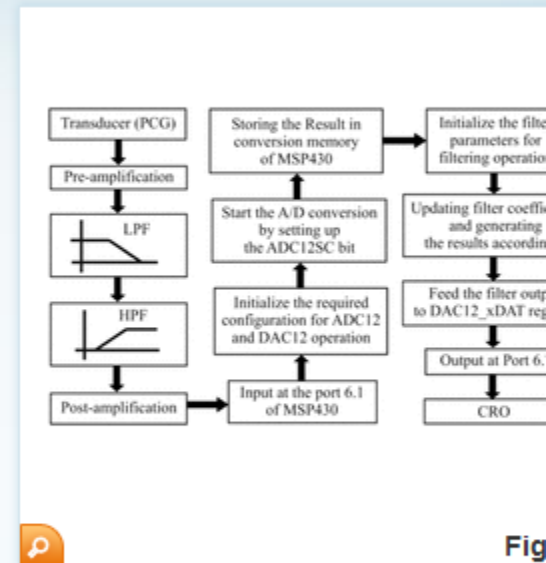
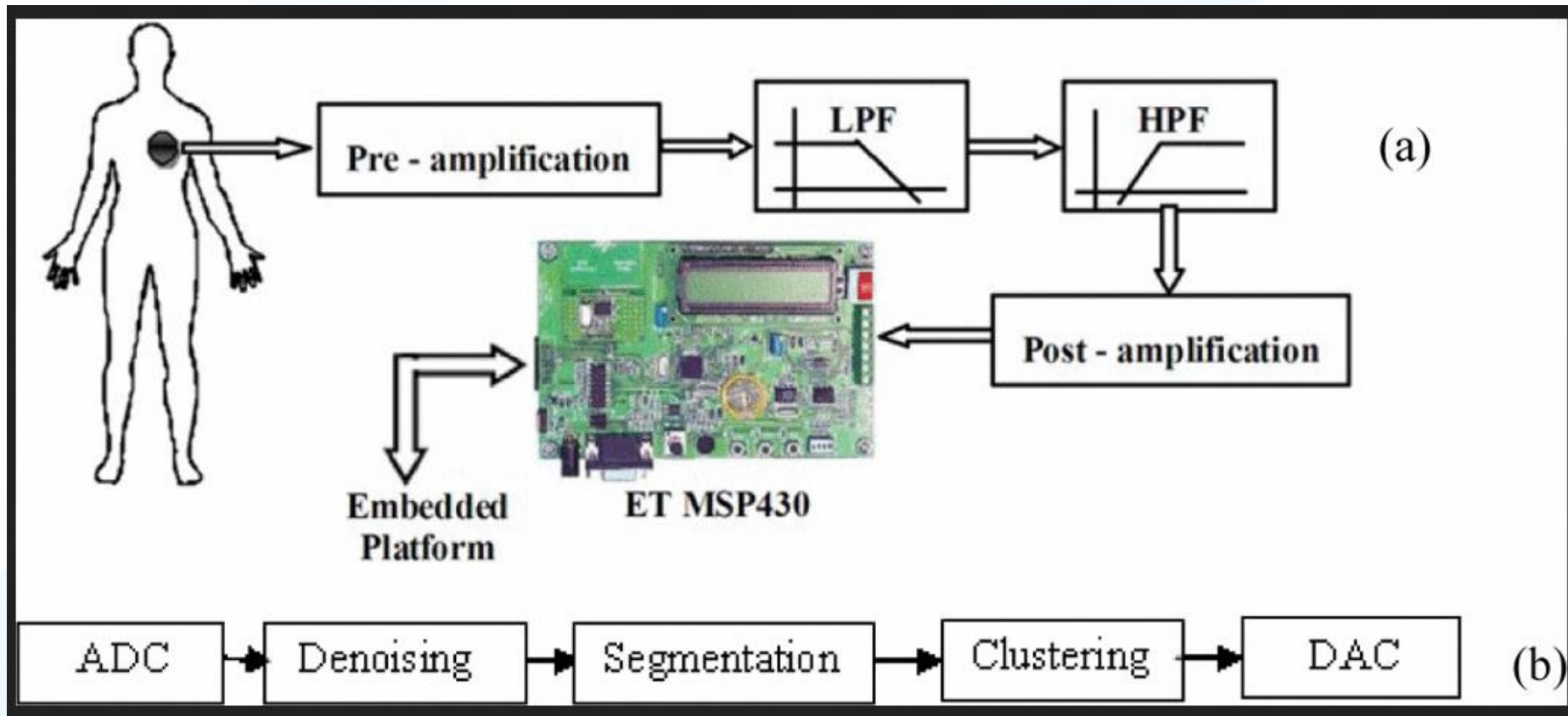


Fig.

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Equations in TeX Source in HTML version

▼ TeX Source

```
$$\eqalignno{{\rm HS}_{\rm recover} & \! = \! \left( {1 - \frac{E\{x_{\rm HS}^2 \left( n \right)\} - E\{y^2 \left( n \right)\}}{E\{x_{\rm HS}^2 \left( n \right)\}}} \right) \! \times \! 100\% \cr & \& \hbox{(1)} \cr {\rm NOISE}_{\rm reduction} & \! = \! \left( \frac{E\{x_{\rm hs\_noi}^2 \left( n \right)\} - E\{y^2 \left( n \right)\}}{E\{x_{\rm hs\_noi}^2 \left( n \right)\}} \right) \! \times \! 100\% \cr & \& \hbox{(2)} }$$
```

and $\text{NOISE}_{\text{reduction}}$ are computed in terms of percentages (see Table 1)

$$\text{HS}_{\text{recover}} = \left(\frac{1 - E\{x_{\text{HS}}^2(n)\} - E\{y^2(n)\}}{E\{x_{\text{HS}}^2(n)\}} \right) \times 100\% \quad (1)$$

$$\text{NOISE}_{\text{reduction}} = \left(\frac{E\{x_{\text{hs_noi}}^2(n)\} - E\{y^2(n)\}}{E\{x_{\text{hs_noi}}^2(n)\}} \right) \times 100\% \quad (2)$$

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 the sense that the information about the surface and L_d is accurate enough. The SC algorithm presented 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_d , 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 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



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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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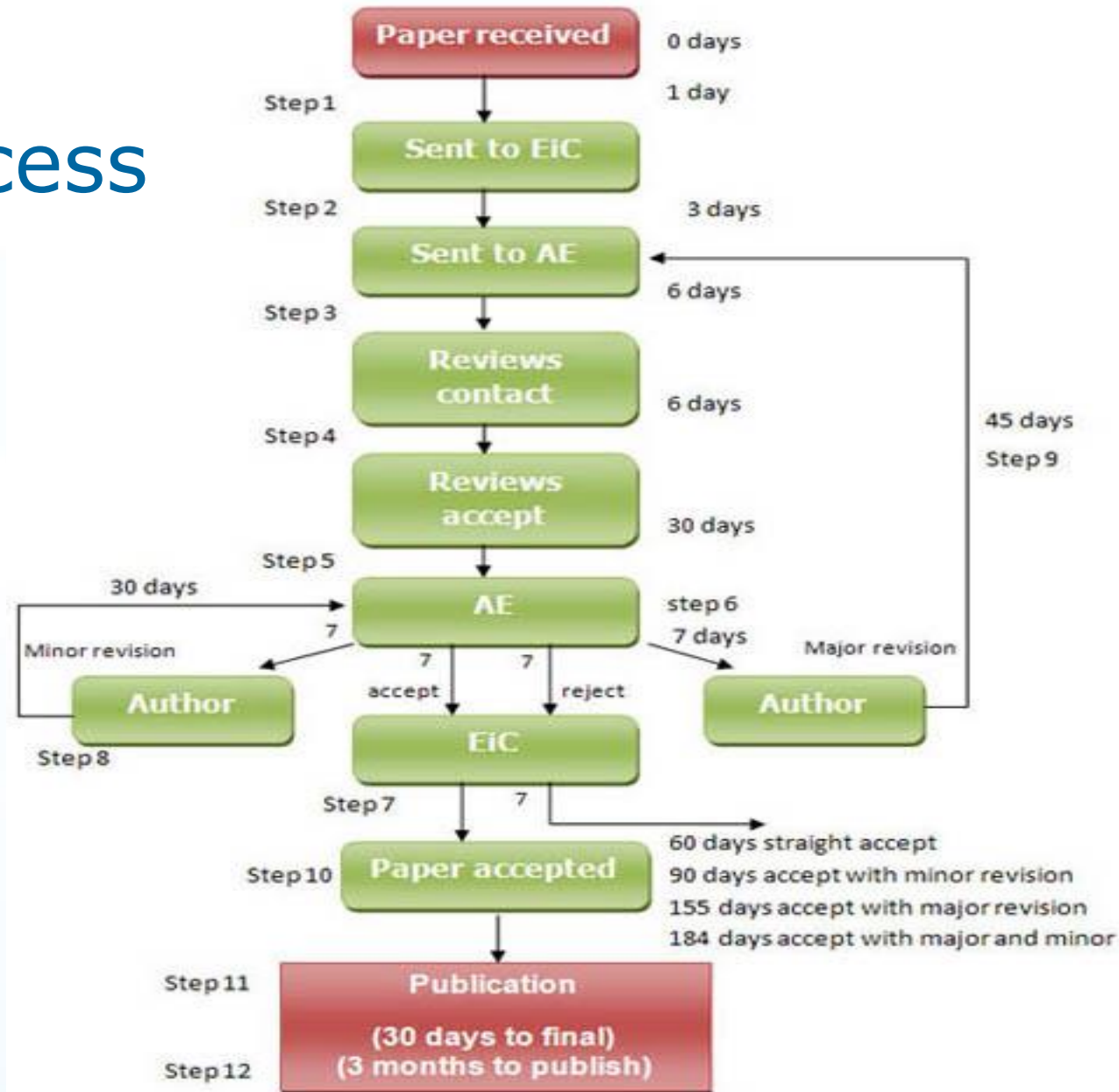
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- Conference Article (363)

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- Clearly written **original material that addresses a new and important problem**
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Audience

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- The content is **not a good fit for the publication**
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Ethics

Ethics

Types of misconduct

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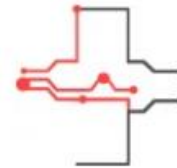


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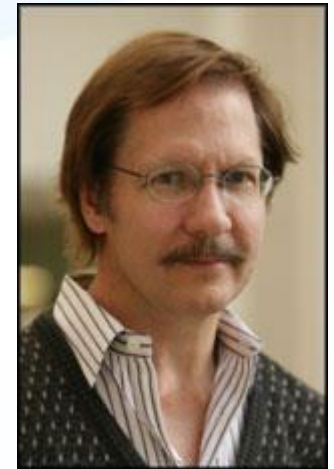
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S. B. Author, Jr. was with Rice University, Houston, TX 77005 USA. He is now with the Department of Physics, Colorado State University, Fort Collins, CO 80523 USA (e-mail: author@lamar.colostate.edu).

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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B. Other Recommendations

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."

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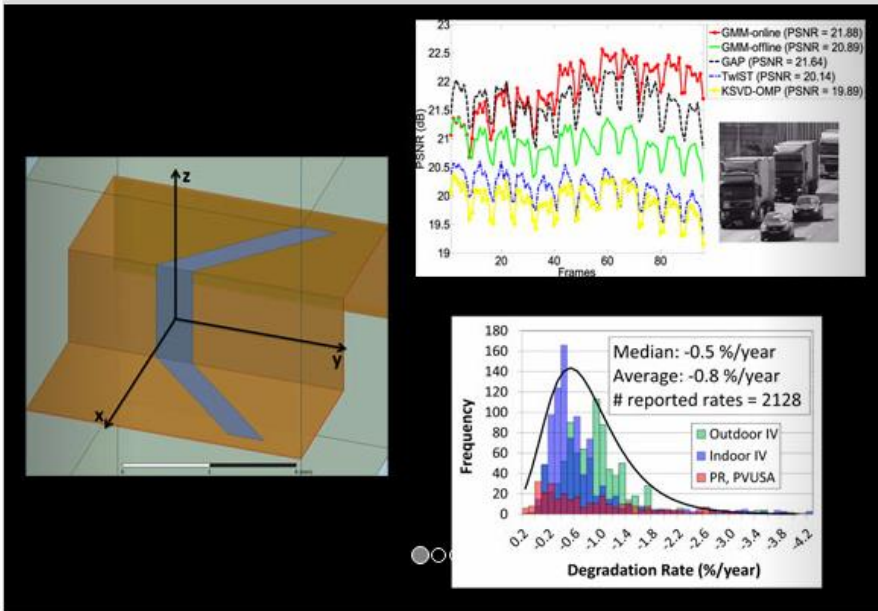
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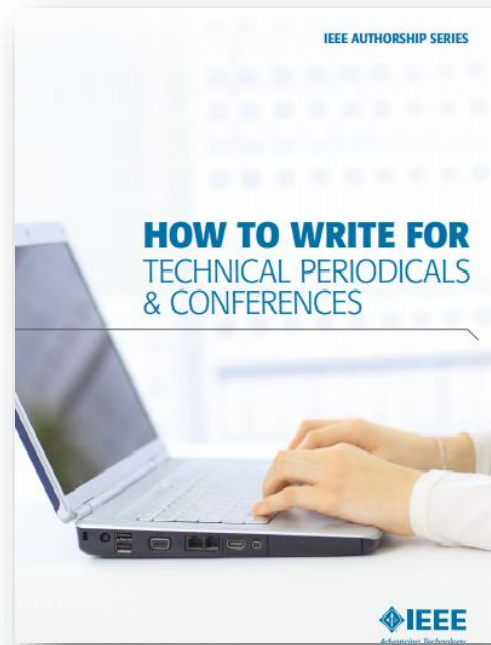
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