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Eszter Lukács

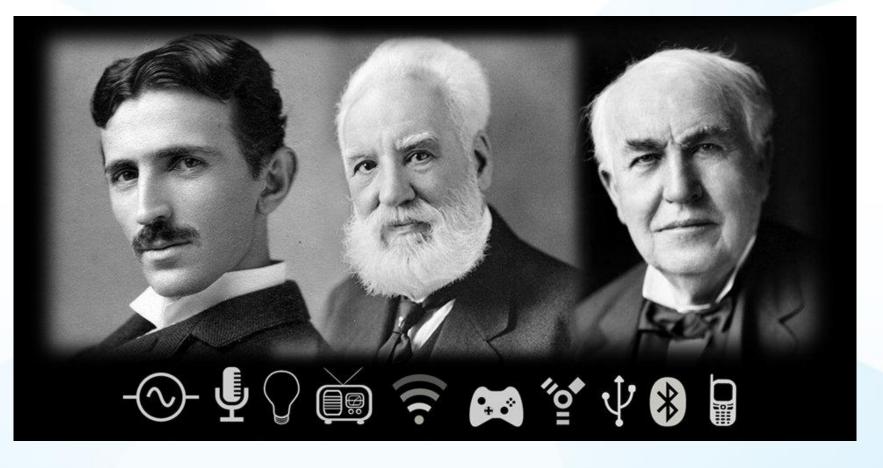
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1884: Where we came from





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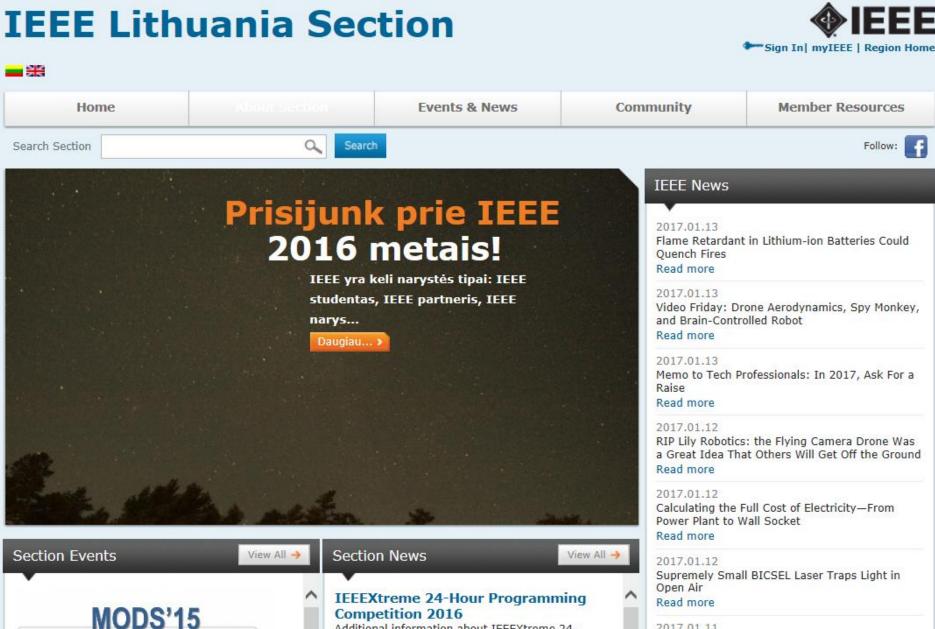


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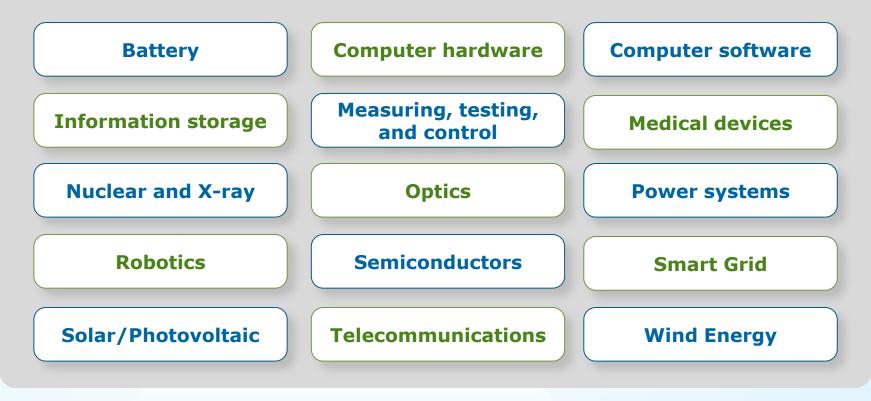
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Source: 1790 Analytics LLC 2015



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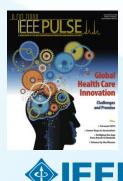
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- At least eight IEEE publications are dedicated in whole or in part to technology related to Life Sciences.
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 - IEEE Trans. on NanoBioscience
 - IEEE Trans. on Autonomous Mental Development.





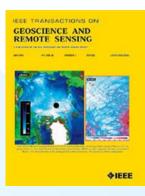




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 - IEEE Geoscience & Remote Sensing Magazine
 - IEEE Geoscience & Remote Sensing Letters
 - IEEE International Symposium Geoscience and Remote Sensing (IGARSS)
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 - IEEE Robotics & Automation Magazine
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Advanced E-Manufacturing Model

The Significance of Large-Scale, Distributed, and Object-Oriented Systems

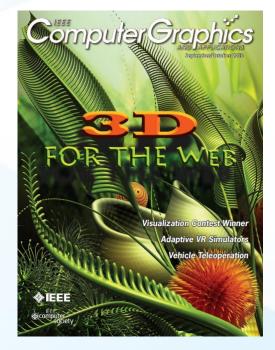
BY FAN-TIEN CHENG, WEN-HUANG TSAI, TSUNG-LI WANG JONATHAN CHANG YUNG-CHENG, AND YU-CHUAN SU

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Digital Art & Technology

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 - International Conference on Computer Graphics, Imaging & Visualization
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- IEEE Xplore covers the design of video games, mathematical games, human-computer interactions in games, and games involving physical objects.
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- Examples of IEEE Xplore publications:
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 - 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





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Healthcare: telemedicine, electronic medical records, patient-specific healthcare, cloud computing in the medical field, patient monitoring systems, informatics, and more

IEEE TRANSACTIONS ON INFORMATION TECHNOLOGY IN BIOMEDICINE, VOL. 16, NO. 2, MARCH 2012

Emerging Technologies for Patient-Specific Healthcare

I. INTRODUCTION

PATIENT-SPECIFIC healthcare is a research field that has recently garnered much more attention due to the benefits of better services provided to patients and a reduction of healthcare costs. A series of emerging technologies [1] aim to emphasize the provision of personalized healthcare services to patients [2]–[5]. These include the following.

- Pattern recognition methods for signal pattern classification toward the prediction and diagnosis of diseases.
- Body sensor networks.
- Algorithms for the analysis of patient-specific physiological signals.
- Ontologies and context-based electronic health records (EHRs).

dologies for the integration of

intranuclear spike activity recorded from Parkinson's digease patients.

A new Neural Sensing Healthcare System for 3D Vision Technology, NeuroGlasses, is presented in [7]. NeuroGlasses is a nonintrusive, wearable physiological signal monitoring system to facilitate health analysis and diagnosis of 3-D video watchers. The NeuroGlasses system acquires health-related signals by physiological sensors and provides feedback of healthrelated features. The system employs signal-specific reconstruction and features extraction to compensate the distortion of signals caused by the variation of sensor placement. Through an on-campus pilot study, the experimental results show that NeuroGlasses system can effectively provide physiological information.



185

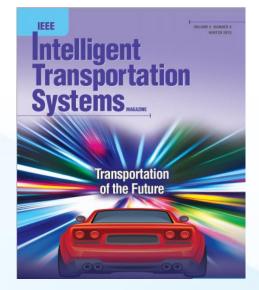
In [2] the authors explore how the rhythmogram can be used

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"Innovator's Dilemma"

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 modern scientific studies. The focus so far has been mainly 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 rity 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 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

according to $Ray(\alpha_i)$, 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:

$H_0^{(n)}$: $\alpha_i = 1, i \in [n]$, v.s. $H_1^{(n)}$: $\alpha_i = 1 + (\alpha - 1)\mathbf{1}_{\{i=J\}}, J \sim U_n$

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 loglikelihood ratio converges to a stable distribution in the large-n limit, Dobrushin [1] obtained sharp asymptotics of the smallest Detection of sparse mixtures is an important problem that 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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Criminal Justice: crime scene investigation technologies, cybercrime, crime statistics, and more

Dimensional Analysis of a Crime Scene from a Single

Image Crime Forecasting Using Data Mining Techniques

Dimensional

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crime-related ev the data. Additic data mining clas classification me on increase or e The result of ou reliable crime pr

This paper at Written by: G

> This paper appe 11-11 Dec. 2011

Cybercrime regulation at a cross-road: State and transnational laws versus global laws

The proliferation of cybercrime necessitates all internet-connected states to be involved in cybercrime regulation. Although it has been stated that the internet per se and cyberspace in general are by its very nature ungovernable. many states have taken territorial control of the internet although the effectiveness of such control in cross-border crime commission may be questioned. The internet may very well become ungovernable if a nation-state takes a unilateral decision on which conduct constitutes permissible online conduct or endeavours to superimpose laws on other nation-states. It is therefore suggested that under the auspices of the United Nations and within an international law context the following issues should be addressed: conceptualizing the term "cybercrime" in establishing for example whether it includes a cyber-attack, determining which online conduct is permissible to ensure peace and security and initiating negotiations towards a Cybercrime Treaty.

This paper appears in: Information Society (i-Society), 2012 International Conference on, Issue Date: 25-28 June 2012, Written by: Watney, Murdoch

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Liberal Arts: digital humanities, use of image processing in art conservation, music classification, and more

2012 6th IEEE International Conference on Digital Ecosystems and Technologies (DEST)

TRACK E: DIGITAL HUMANITIES

Track co-Chairs

- Tobias Blanke, Kings College, UK
- Stuart Dunn, King's College London, UK

The digital humanities form a bridge between the traditional practices of scholarship and the opportunities afforded by advances in technology, enabling researchers to reconsider old problems in new ways, and providing the methods, tools and frameworks to support them in developing new modes of enquiry. On the one hand, the humanities are faced with ever greater volumes of complex data and digital resources, for example from the increasing mass digitisation of historical records.

On the other hand, research in the humanities is moving away from the model of individual scholars to one in which international and inter-disciplinary teams of researchers collaborate actively within a diverse ecosystem of digital resources, tools, and services, not forgetting of course the users themselves – the rapid evolution of Web technologies continues to privilege the human as a key agent, both as provider and consumer of content, and this in turn is investing humanities scholarship increasing reness of new autoences.



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

Bring	ing Physical Char	acters	to Life			
_	Akhil J. Madhani Walt Disney Imagineering					
	Ray Tracing for the Movie 'Cars'					
	Per H. Christensen*	Julian Fong	David M. Laur	Dana Batali		
Abstract	Pixar Animation Studios					
At Disney, we are s to present these ch entertainment robot Disney in attraction In this talk, I hope Disney. In particula distilled from Disne As examples of cha I discuss two newer						
the Disney theme developed in conjur and has made appo	ABSTRACT This paper describes how we extended Pixar's Render with ray tracing abilities. In order to ray trace hig scenes we use multiresolution geometry and texture use ray differentials to determine the appropriate ress this method we are able to efficiently ray trace scene more geometry and texture data than there is main men quality rendering of scenes of such complexity had on been possible with pure scanline rendering algorithms	caches, and blution. With es with much mory. Movie- ly previously	cess. This combination o tracing of very complex s This paper first gives a ray tracing in 'Cars', and the movie industry. It then gorithm deals with compl on efficient ray tracing of of our hybrid rendering a	tly accessed texture tiles ready for fast ac- f ray differentials and caching makes ray cenes feasible. a more detailed motivation for the use of lists the harsh rendering requirements in gives an overview of how the REYES al- ex scenes and goes on to explain our work equally complex scenes. An explanation oproach, combining REYES with ray trac- neasure the efficiency of our method on a		

Iditional effects





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Apparel Design: e-textiles, smart fabrics, intelligent clothing, wearable computing, and more



Smart Textiles: From Niche to Mainstream

Jingyuan Cheng, Paul Lukowicz, Niels Henze, Albrecht Schmidt, Oliver Amft, Giovanni A. Salvatore, and Gerhard Tröster

A swith many new technologies, smart clothing and textile electronics currently suffer from the chicken-and-egg problem—that is, for the devices to be widely deployed, the price must come down, but for the price to come down, the devices must be mass-produced (really deployed). between the various people creating the fabric, garments, electronics platforms, and apps (see Figure 1).

The solution to the chicken-and-egg problem must incorporate all steps from garment production through to wearable sensing apps. With appropsiate abstraction process should essentially remain series of cutting and sewing steps, possibly including the integration of different materials. Designers cou apply this process to the sensing layer, as well, to align the sensors with the garment and with targeted application homains. However, three equireme



New IEEE Journals Planned for 2017

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
- IEEE Transactions on Green Communications and Networking
- IEEE Transactions on Radiation and Plasma Medical Sciences
- IEEE Journal of Radio Frequency Identification
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New IEEE Journals Coming in 2016

In 2016, IEEE will introduce four new journals that will be available for subscription:

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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
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33 1/24/2017

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
 34 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

IEEE 3000 Standards Collection[™]—Formerly the IEEE Color Books®, this collection will reorganize the 13 Color Books into approximately 70 "dot" standards covering specific technical topics on all facets of industrial and commercial power systems.

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

2012 National Electrical Safety Code (NESC®)—Sets the ground rules for practical safeguarding of persons during the installation, operation, or maintenance of electric supply and communications lines and associated equipment.

IEEE 43™—IEEE Recommended Practice for Testing Insulation Resistance of Electric Machinery

IEEE 80™—IEEE Guide for Safety in AC Substation Grounding

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Purpose

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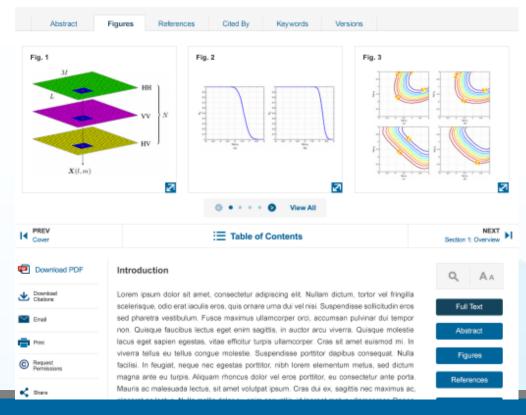
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IEEE 18 - 2004 IEEE Standard for Shunt Power Capacitors

Revision of IEEE 12-1995

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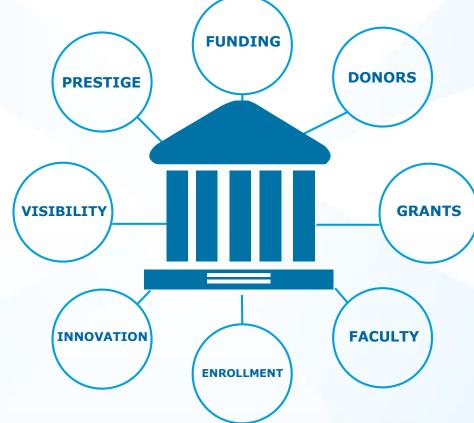
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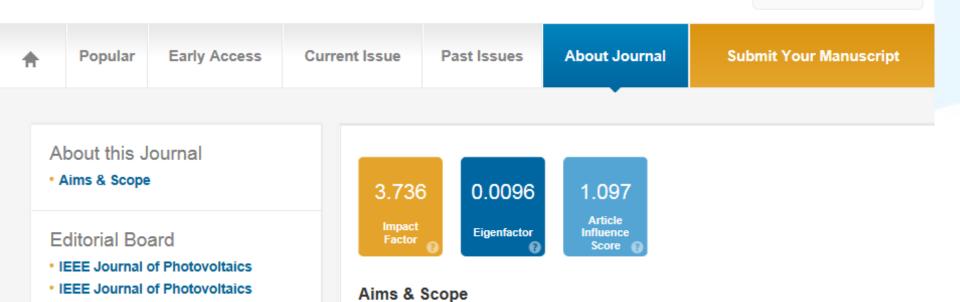




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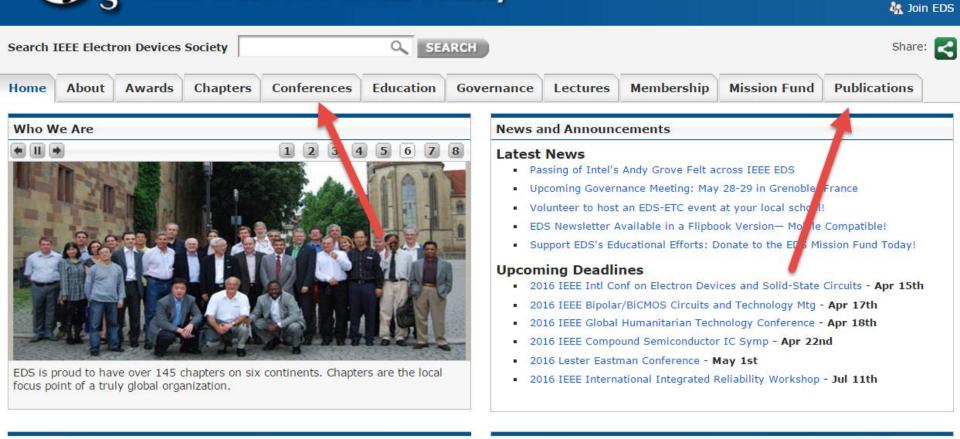
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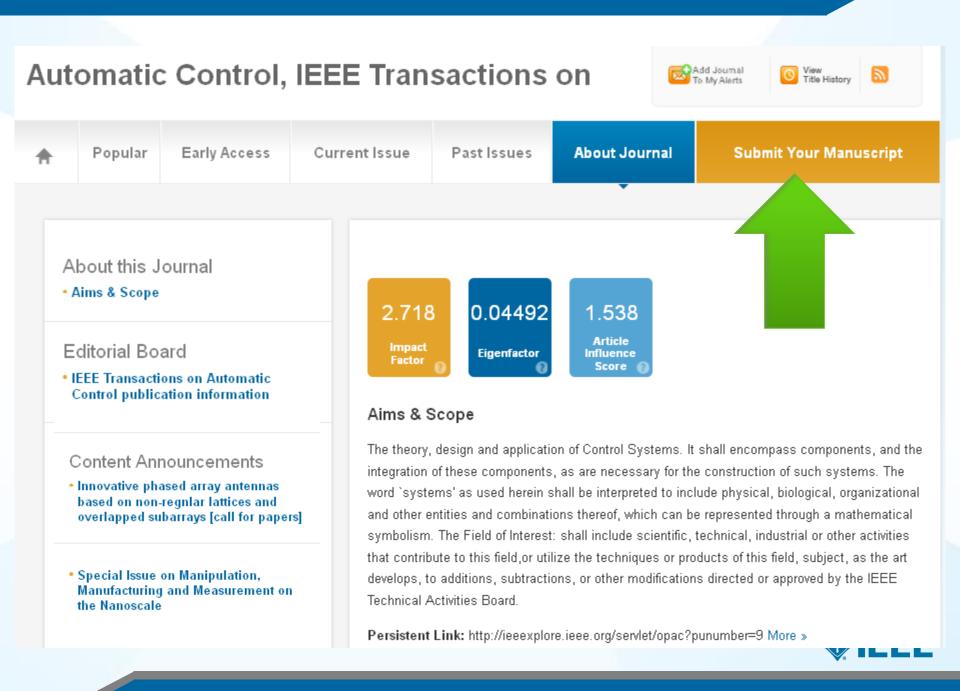


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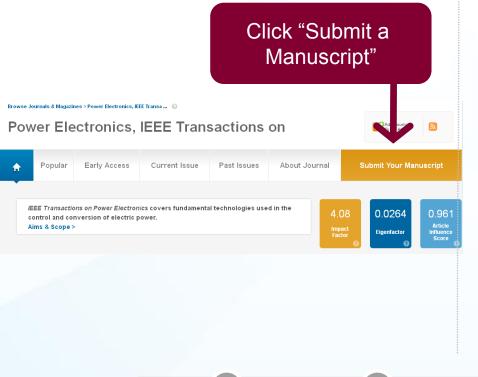
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Structure



Paper Structure Elements of a manuscript

Title	Efficiency Optimization in Low Inertia Wells
Abstract	Turbine-Oscillating Water Column Devices PTISMER INIT Salvador Cohulos, Judy Rez, Inside Lapez, Josep Pex, Senior Member, IEEE, Eider Robles, and Dars L. O'Sallivan PTISMER INIT PTISMER INIT .thoused—The Welds turbine in Milleretinal at methods The oscillating voire column (OWC) is one of the most manual turber of being the turbine in the turbine interms of methods in turbine in terms of methods in turbine in terms of methods in turbine in terms of methods in the turbine interms. These devices in the share interms of methods in the turbine interms. These devices in the share interms of methods in the share interms. These devices in the share interms of methods in the share interms. The devices in the share interms of methods in the share interms. These devices in the share interms of methods in the share interms. These devices in the share interms. Interms of the share interms of methods in the share interms.
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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





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

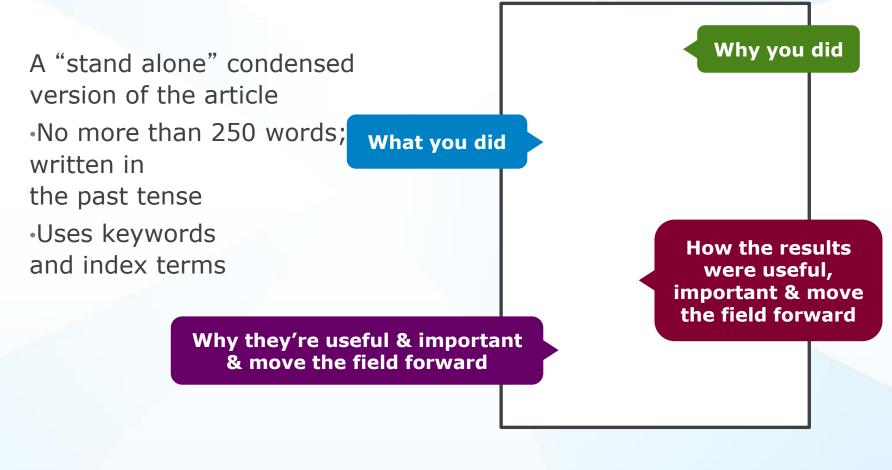
An Investigation into the Effects of Residential Air-Conditioning Maintenance in Reducing the Demand for Electrical Energy

VS

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



Paper Structure Abstract





Abstract:#

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

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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**.



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

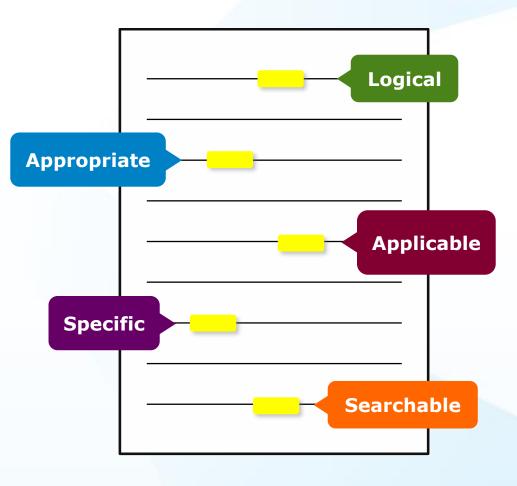
This paper presents and assesses a framework for an engineering capstone design program. We explain how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. Next, we describe a way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





IEEE Keywords

Authors Keywords

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

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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- It should move step by step through, should be written in present tense:

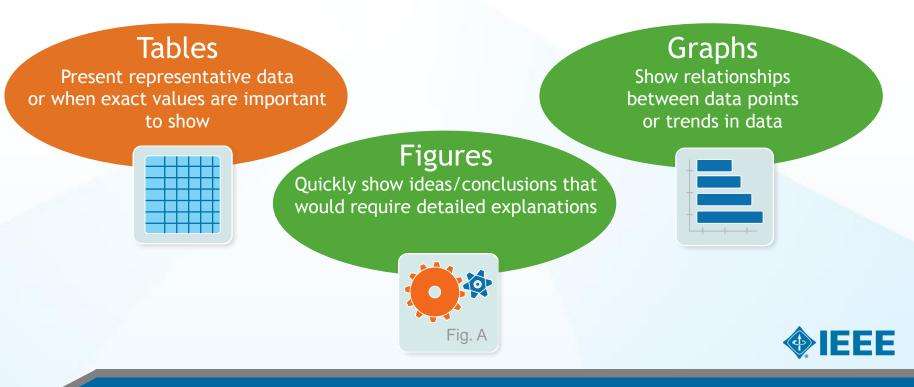


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 - More then 2 pages

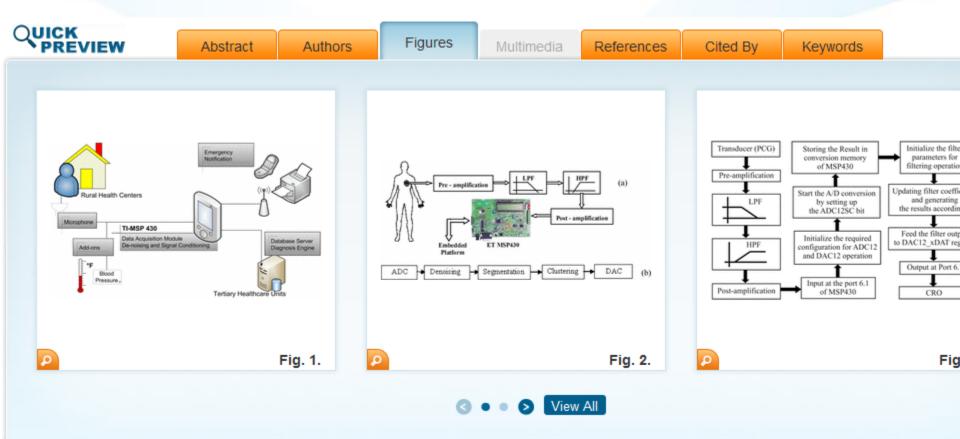


Paper Structure Methodology

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

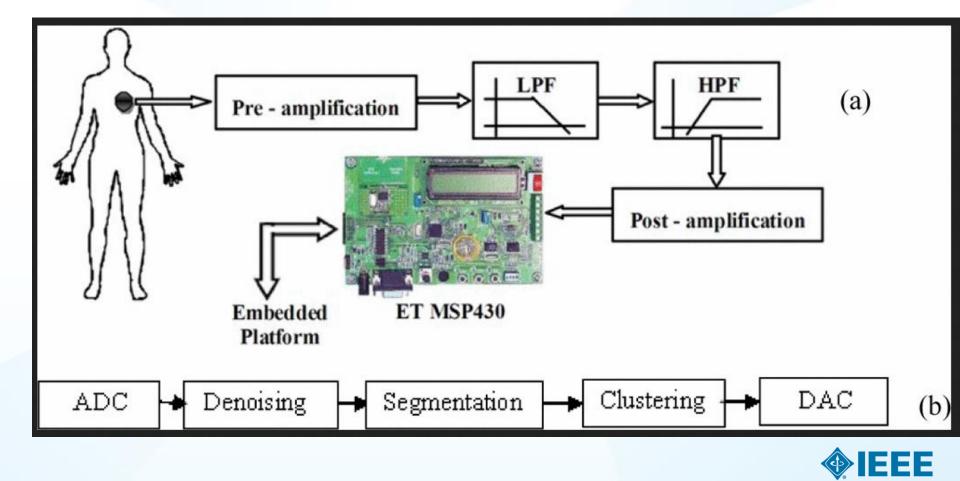


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\$\eqalignno{{\rm HS}_{{\rm recover}} & \!=\! \left({1 - {{E\left\{{x_{{\rm HS}}^2 \left(n \right)} \right}} - E\left\{{y^2 \left(n \right)} \right} \\]} HS}}\over{{E\left\{{x_{{\rm HS}}^2 \left(n \right)} \right}} \right) \}}\over{{E\left\{{x_{{\rm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

and notadireduction are computed in terms of percentages (see Table 1)

$$HS_{recover} = \left(\frac{1 - E\left\{x_{HS}^{2}(n)\right\} - E\left\{y^{2}(n)\right\}}{E\left\{x_{HS}^{2}(n)\right\}}\right) \times 100\%$$
(1)
NOISE_{reduction} =
$$\left(\frac{E\left\{x_{hs_noi}^{2}(n)\right\} - E\left\{y^{2}(n)\right\}}{E\left\{x_{hs_noi}^{2}(n)\right\}}\right) \times 100\%$$
(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

MENEZ-MUNDI & ALLST RETRIEVAL METHODS FROM LANDSAT-S THERMAL INFRARED SENSOR DATA

the SC algorithm over the whole range of ω values increase.

3 g - cm⁻² are selected, the SC algorithm provides RMS

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

V. DISCUSSION AND CONCLUSION The two Landsat-S TIR bands allow the intercomparison

of two LST retrieval methods based on different physical

[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 emis-

sivity, only water vapor content is required as input. However,

it is expected that errors on LST become unacceptable for high while vapor contents (e.g., $> 3 \text{ g} \cdot \text{cm}^{-2}$). This problem can be purify solved by computing the atmospheric functions directly from τ , L_{u} , and L_{d} values [use (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 Landant-8 TIRS data, since previous

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 al-

gorithm, this accuracy is only achieved for u values below

³ g - cm⁻². Algorithm teeting 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 Jiménez-Muttor [18]. Although an extensive

validation exercise from is sits 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 mothe-

matical structure give confidence in the algorithm accuracies

The LST algorithms presented in this letter were tested with

TM/ETM sensors only had one TIR band.

antirented have.

such as the SC (only one TIR band required) fams (two TIR bands required). Direct inversion e transfer equation, which can be considered

orithm, is assumed to be a "ground-truth" condition that the information about the

and L_d is accurate enough. The SC algo-

in this letter is a continuation of the previous SC

veloped for Landsat-4 and Landsat-5 TM sensors, ne EIM+ sensor on board the Landsat-7 platform.

fit approach as given by [4].

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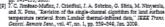
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Discussion



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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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14.34 We then have

```
(P_t^{s,+} + P_t^{s,-})^2 = (P_t^{s,+} - P_t^{s,-})^2 + 4P_t^{s,+}P_t^{s,-}
                                  <(\hat{P}_{t}^{s,+}-\hat{P}_{t}^{s,-})^{2}+4\hat{P}_{t}^{s,+}\hat{P}_{t}^{s,-}
                                   -(\hat{P}_{i}^{a,+} + \hat{P}_{i}^{a,-})^{2},
```

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

 $c_{u/m}(P_t^{s,+}, P_t^{s,-}) < c_{u/m}(\dot{P}_t^{s,+}, \dot{P}_t^{s,-}).$

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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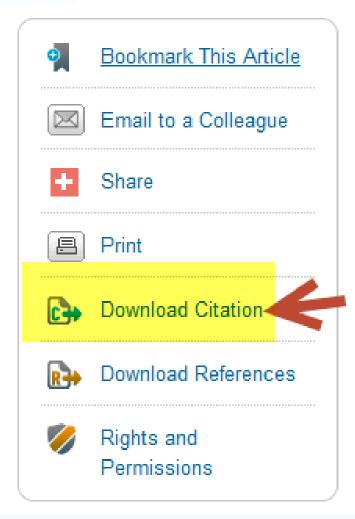


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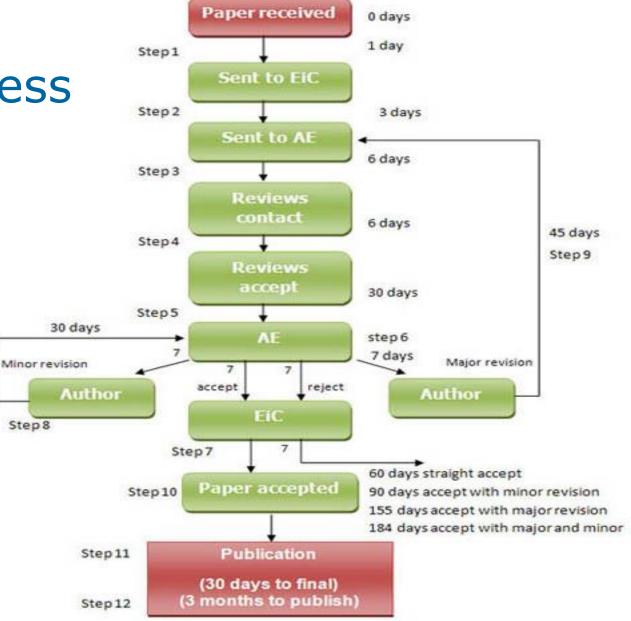


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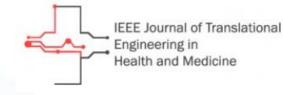
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