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Eszter Lukács

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Novosibirsk IEEE Chapter is part of the IEEE Russia Siberia Section and the IEEE Region 8 (Europe, Middle-East and Africa region).



Our main objective is to promote a harmonious interaction between the Academy and the Industry in this part of the world by promoting the IEEE professional membership and participating in academic and industrial events.

In the past decades, microwave technology and wireless industry have developed rapidly. The pressure for industry transformation and how to improve the added value have become the urgent issues. The objective of the Chapter is to link different resources from the domestic industry companies and academic institutes, to enhance the professional technique exchange and corporation, and to strengthen the interpersonal and public relationship. Through managing conferences and seminars, this Tomsk chapter intends to keep updated with the novel technology and its future roadmap.

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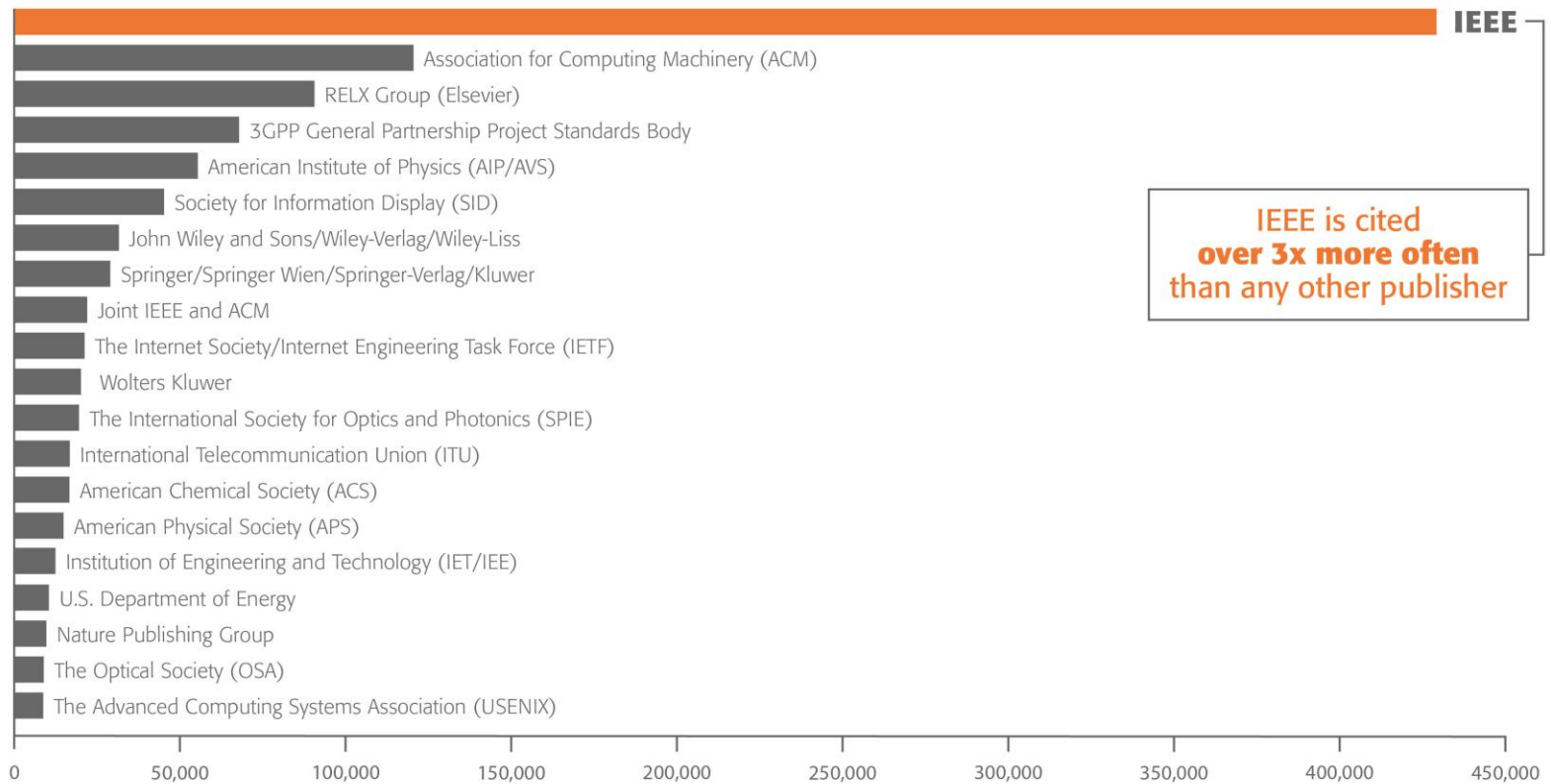
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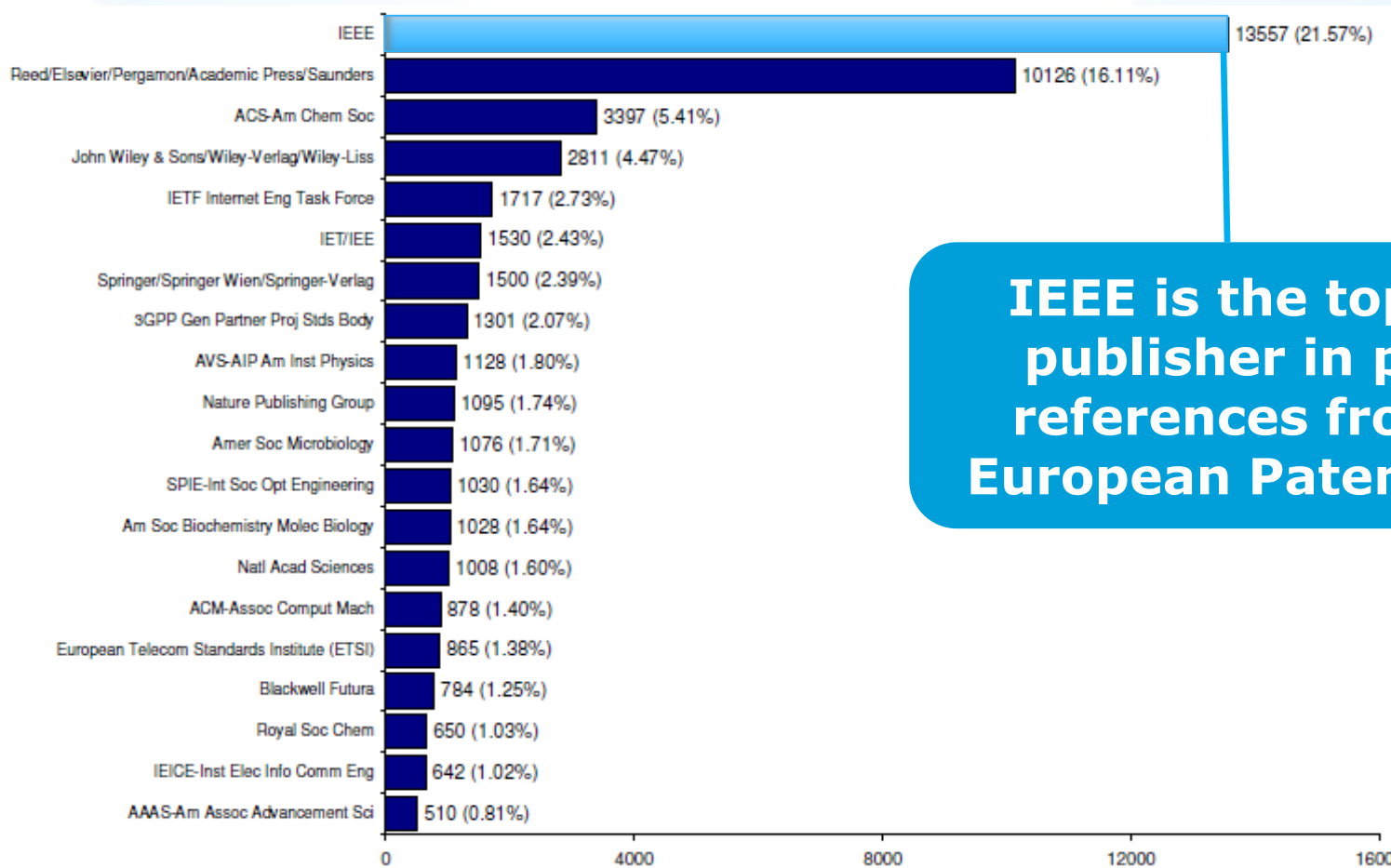


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A sampling of some of the new conferences added in 2016

Conference Title

2016 IEEE First Intl Conf on **Control, Measurement** and Instrumentation (CMI)

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

2016 Intl Conf on **Intelligent Systems** Engineering (ICISE)

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

2016 IEEE First Intl Conf on **Connected Health**

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)

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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

2017 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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Roaming Mobile Access – Every 90 days refresh remote access:

The screenshot shows the IEEE Xplore Digital Library website. At the top, there is a navigation bar with links for IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites. On the right, it says "Welcome Tbruno@atypon.com" and "Cart (0)". The main header features the IEEE Xplore Digital Library logo on the left, a box in the center stating "Access provided by Tom Institution" with a "Sign Out" link, and the IEEE logo on the right. Below the header is a blue navigation bar with buttons for "BROWSE", "MY SETTINGS", "GET HELP", and "WHAT CAN I ACCESS?". A search bar is located below this, with the placeholder text "Enter Search Term" and a "Search" button. Below the search bar are buttons for "Basic Search", "Author Search", "Publication Search", "Advanced Search", and "Other Search Options".

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Citation alert

to receive an alert when the document is cited

The image shows a screenshot of a document viewer interface. On the left, there is a sidebar with several action buttons: 'Download PDF', 'Download Citations', 'View References', 'Email', 'Print', 'Request Permissions', 'Export', 'Share', and 'Alerts'. The 'Alerts' button is highlighted with a red box and a red arrow pointing to it. The main content area displays the document's title 'SECTION I. Introduction' and a paragraph of text. On the right side, there is a search bar and a list of navigation buttons: 'Full Text', 'Abstract', 'Authors', 'Figures', 'References', 'Citations', 'Keywords', 'Footnotes', and 'Back to Top'. The 'Alerts' button in the sidebar is the focus of the image, indicating how to set up a citation alert.

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SECTION I.
Introduction

THE Internet of Things (IoT) is a recent communication paradigm that envisions a near future, in which the objects of everyday life will be equipped with microcontrollers, transceivers for digital communication, and suitable protocol stacks that will make them able to communicate with one another and with the users, becoming an integral part of the Internet [1]. The IoT concept, hence, aims at making the Internet even more immersive and pervasive. Furthermore, by enabling easy access and interaction with a wide variety of devices such as, for instance, home appliances, surveillance cameras, monitoring sensors, actuators, displays, vehicles, and so on, the IoT will foster the development of a number of applications that make use of the potentially enormous amount and variety of data generated by such objects to provide new services to citizens, companies, and public administrations. This paradigm indeed finds application in many different domains, such as home automation, industrial automation, medical aids, mobile healthcare, elderly assistance, intelligent energy management and smart grids, automotive, traffic management, and many others [2].

However, such a heterogeneous field of application makes the identification of solutions capable of satisfying the requirements of all possible application scenarios a formidable challenge. This difficulty has led to the proliferation of different and, sometimes, incompatible proposals for the

Full Text

Abstract

Authors

Figures

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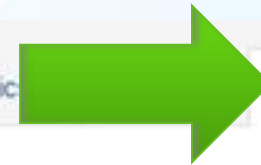
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Algorithms in IEEE Xplore

Abstract Authors Figures References Citations Keywords Metrics **Algorithms**



This article contains an algorithm made available via IEEE's partnership with Code Ocean, a cloud service that allows users to view, run, modify, and download algorithms in IEEE Xplore articles. Click the algorithm name below to access it on the Code Ocean website.

Name: [Multi-Scale Patch-Based Image Restoration - Super Resolution](#)

Programming Language: 

You must register for a free account to start using Code Ocean

The screenshot displays the Code Ocean web interface. At the top, there are navigation tabs: Dashboard, Explore, and Learn. The main header shows the article title "Multi-Scale Patch-Based Image ..." and tabs for Details, Code, and Interface. The "Code" tab is active, showing a MATLAB script named "demo_sr.m".

```
1 clear;
2 clc;
3 pkg load image
4 % make sure you are in the MultiScaleEPLL dire
5 addpath(genpath(pwd));
6
7 % params
8 patchSize = 8;
9 psf = fspecial('gaussian',7,1.6);
10 scale = 3;
11 noiseSD = 5/255;
12 betas = [1 2 4 8 16 32 64 128];
13 lambda = patchSize^2/noiseSD^2;
14
15 % models
16 load './input/GSModel_8x8_200_2M_noDC_zeromec
17 models = {GS,GS};
18
```

On the left, the "Source Files" panel shows a directory structure with files like "demo_sr.m" and "my_im2col.m". Below it, the "Input Files" panel lists "SR_test_images" (1.98 MB), "GMM_high.mat" (5.69 MB), and "GSModel_8x8_20.." (9.77 MB). On the right, the "Results" panel shows a search bar, a "Run" button, and a table of output files: "image.png" (42.64 KB), "Output" (1.14 KB), and "SRimage.png" (113.39 KB). The run time is listed as "0h 09m 05s | Nov 23, 2016 | 13:27".

Redesign of Full-Text HTML Articles

- More prominent
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- Multimedia gallery

The screenshot displays the IEEE Xplore Digital Library interface for an article. The page is titled "Article Title: Lorem Ipsum Dolor Sit Amet Sed Faucibus Augue Metus et Tempor Purus...". The redesign features several new elements highlighted with orange arrows:

- Search Bar:** A prominent search bar at the top with a "Search" button and options for "Basic Search", "Author Search", "Publication Search", "Advanced Search", and "Other Search Options".
- Metrics Gallery:** A row of three blue boxes showing "5 Cited in Papers", "4 Cited in Patents", and "9 Full Text Views".
- Related Articles:** A section titled "Related Articles" with three article thumbnails and a "View All" button.
- Author Information:** A row of author names with ORCID icons: J. Smith, J.M. Appeseed, S.K. Hyun, M., Mills, and T. Homes.
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A Reactive Walking Pattern Generator Based on Nonlinear Model Predictive Control

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6 Author(s) ▼ M. Naveau ; ▼ M. Kudruss ; ▼ O. Stasse ; ▼ C. Kirches ; ▼ K. Mombaur ; ▼ P. Souères

Abstract **Authors** Figures

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V. V. Nebrat; E. V. Rabinovich

2006 8th International Conference on Actual Problems of Electronic Instrument Engineering

Year: 2006

Pages: 118 - 118, DOI: 10.1109/APEIE.2006.4292390

IEEE Conference Publications

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The Square Law of Brownian Motion of Microobjects in Liquids at Small Temporal and Spatial Scales

S. N. Bagayev; V. A. Orlov; S. V. Panov

2006 8th International Conference on Actual Problems of Electronic Instrument Engineering

Year: 2006

Pages: 115 - 115, DOI: 10.1109/APEIE.2006.4292387

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Reflexotherapy



Yurkevich

Conference on Actual Problems of Electronic Instrumentation

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Citations



System connected with a nonlinear gain



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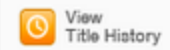
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The theory, design and application of Control Systems. It shall encompass components, and the integration of these components, as are necessary for the construction of such systems. The word 'systems' as used herein shall be interpreted to include 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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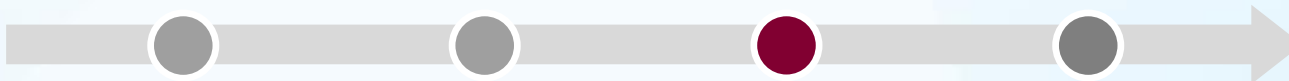
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Structure

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

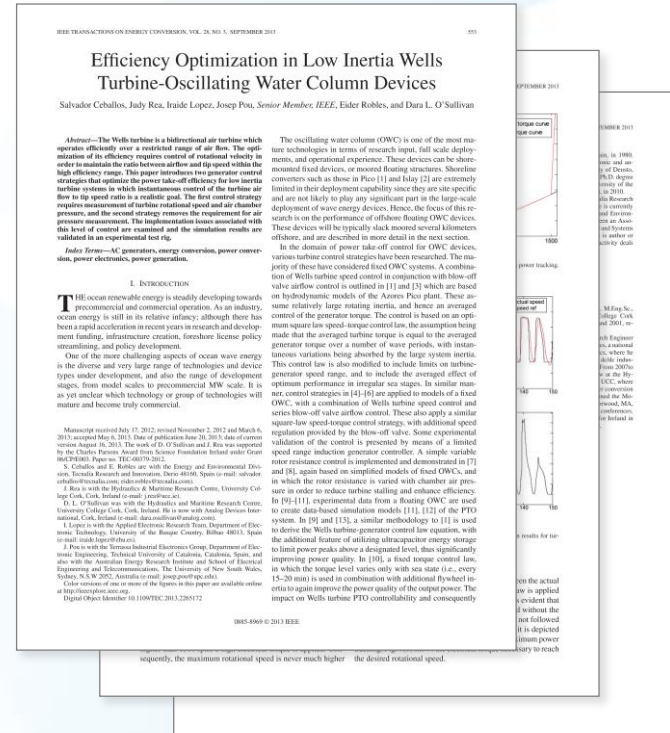
Introduction

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

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- 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

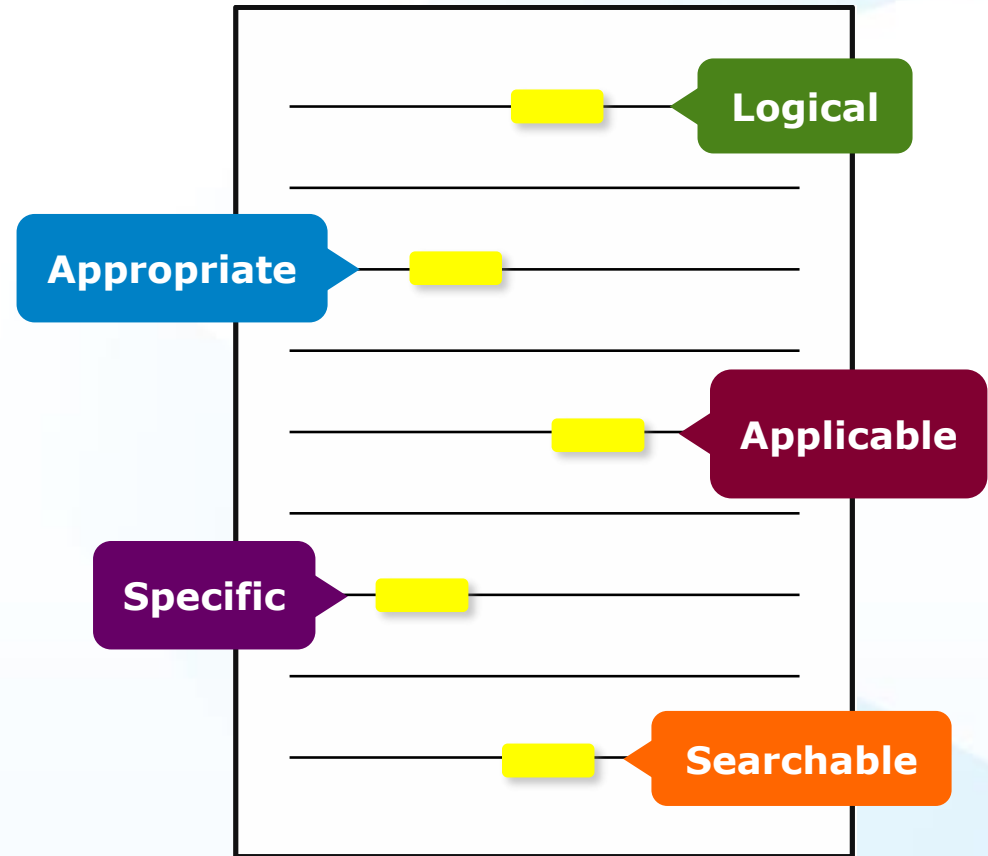
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe**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

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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



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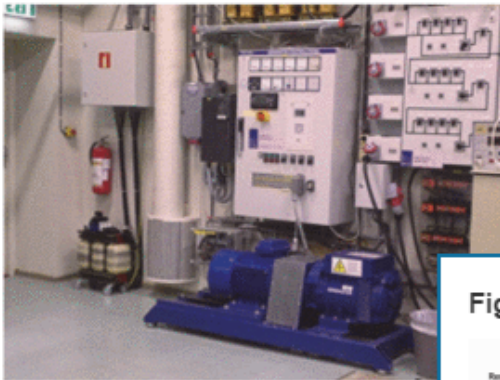
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Fig.1.



Distributed generation system emulator set with control system in the laboratory

Fig. 2.

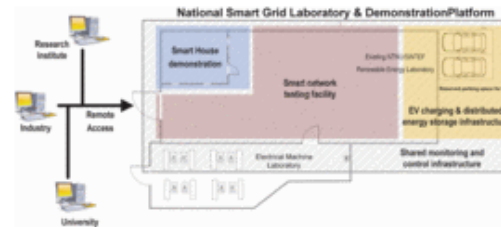
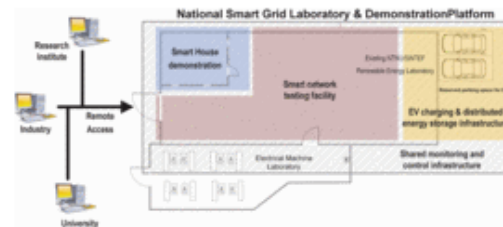


Fig. 2.



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Fig. 3.



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The Test Case Prioritization Problem.

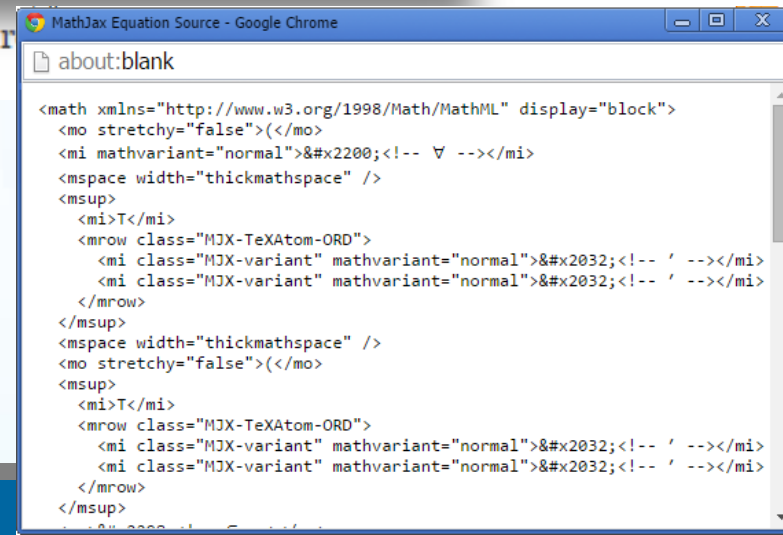
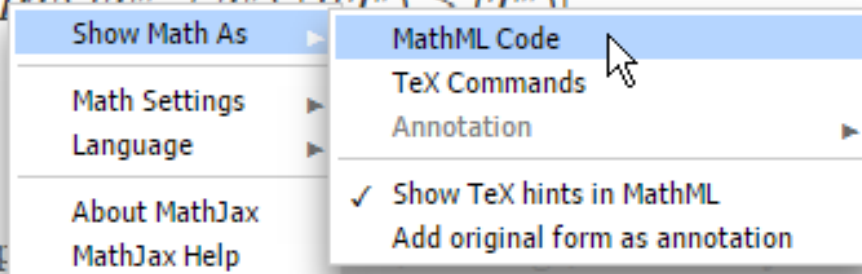
Given: T , a test suite; PT , the set of permutations of T ; f , a function from PT to the real numbers.

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 , when applied to any such ordering, yields an award score.



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

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

▶ View Source ?

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.

A screenshot of 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 expanded, showing 'Zoom Trigger', 'Zoom Factor', 'Math Renderer', and 'Scale All Math ...'. The 'Zoom Trigger' submenu is also expanded, showing 'Hover', 'Click', 'Double-Click', and 'No Zoom'. The 'Click' option is highlighted, and a mouse cursor is pointing at it. Below the 'Click' option, there is a section titled 'Trigger Requires:' with sub-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

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

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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.

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 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_{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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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

$$\begin{aligned}
 (P_1^{n+} + P_1^{n-})^2 &= (P_1^{n+} - P_1^{n-})^2 + 4P_1^{n+}P_1^{n-} \\
 &< (P_1^{n+} - P_1^{n-})^2 + 4\hat{P}_1^{n+}\hat{P}_1^{n-} \\
 &= (P_1^{n+} + \hat{P}_1^{n-})^2. \quad (32)
 \end{aligned}$$

Since $P_1^{n+} - P_1^{n-} = \hat{P}_1^{n+} - \hat{P}_1^{n-}$, we then have $P_1^{n+} < P_1^{n+}$ and $\hat{P}_1^{n-} < P_1^{n-}$. 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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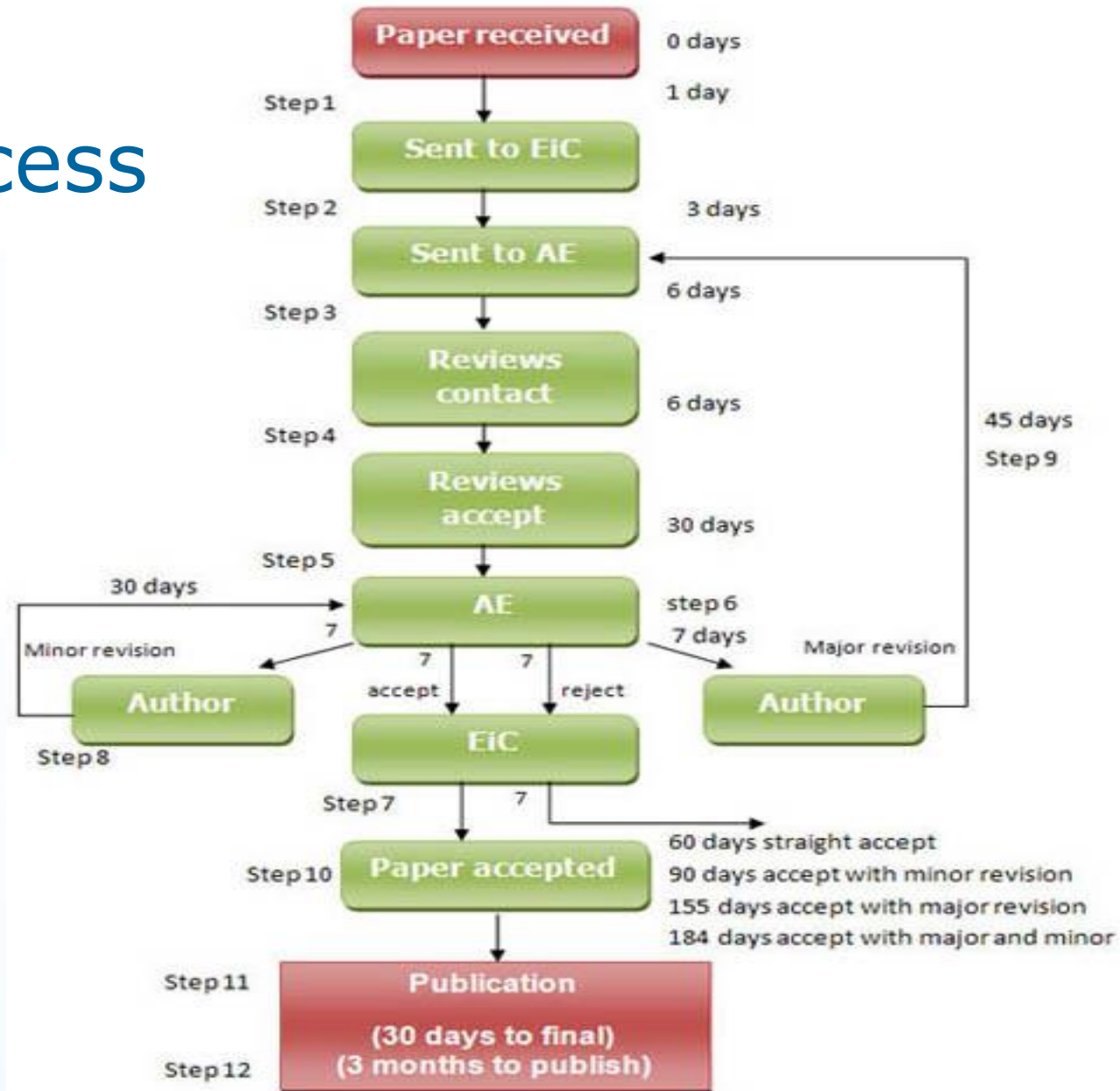


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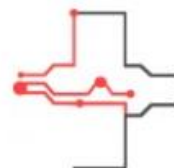


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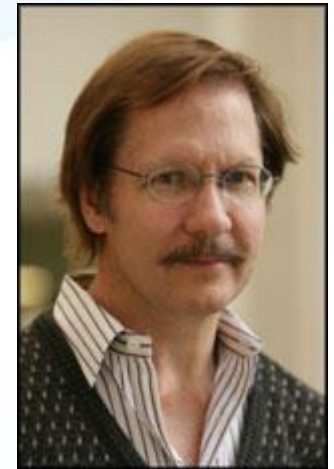
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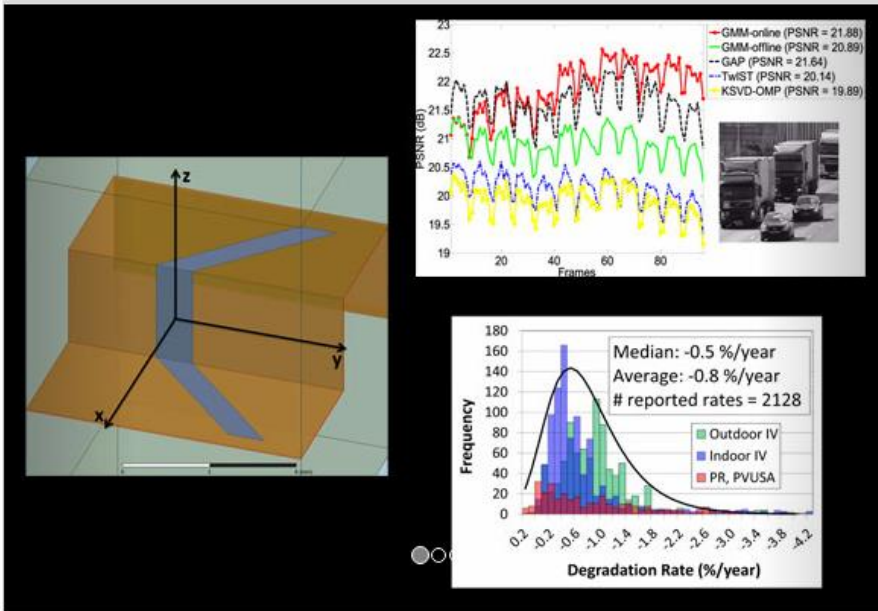
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