



Использование электронных научных ресурсов IEEE в научном и учебном процессах современного университета

Андрей Соколов, представитель EBSCO по России, Беларуси, Молдове

IEEE сегодня

- ▶ Некоммерческая ассоциация
 - IEEE = Institute for Electrical & Electronic Engineers
- ▶ Крупнейшая в мире ассоциация специалистов в области техники, свыше 426,000 членов в 190 странах
- ▶ Четыре направления:
 - Поддержка членов ассоциации
 - Организация конференций
 - Разработка стандартов
 - Издательская деятельность



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Содействовать развитию технологий и инноваций *на благо человечества*

IEEE способствует процессам создания, развития, интеграции, совместного использования и применения научных знаний в области технических и информационных наук на благо человечеству.



IEEE состоит из 38 сообществ (IEEE Societies)

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IEEE: члены и авторы – лидеры сегодня и завтра



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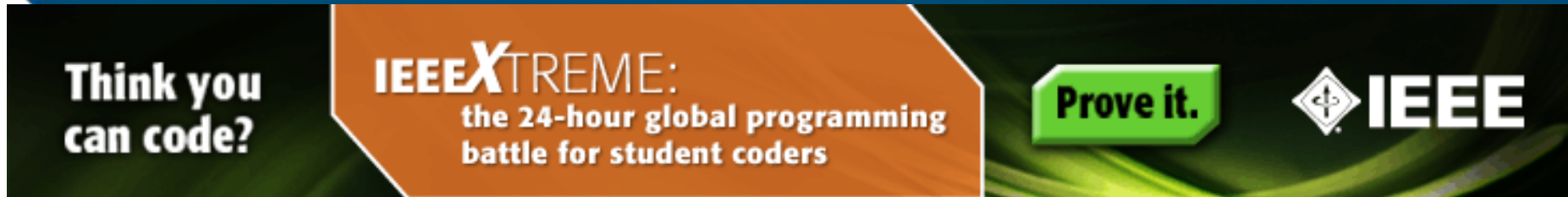


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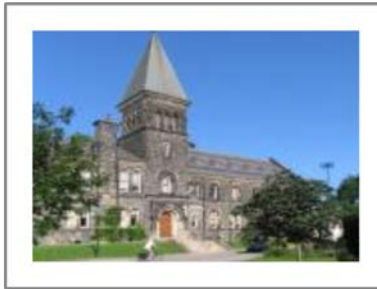
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- 8 из топ 10 телекоммуникационных компаний
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- 4 из топ 5 производители электроники
- Все топ 5 производители компьютерного оборудования

(Forbes Global 2000 Rankings, May 2013)



Университеты

- Все топ 100 технических университетов США
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(US News and World Report 2011, Times Higher Education Top Technology Universities)



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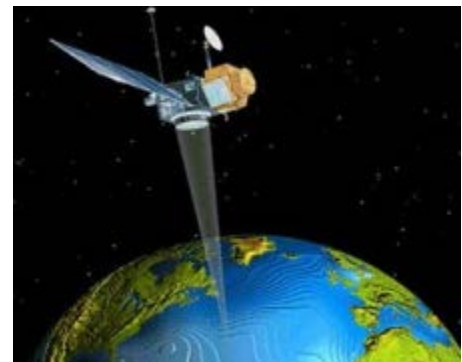
Качество контента

рецензируемые журналы и материалы конференций

- Что отличает контент от IEEE от других издательств?
- IEEE рецензирование – процесс, в результате которого статья в журнал или материалы конференции предоставляется издательством на рассмотрение экспертов для критической оценки до ее принятия к изданию. Это стандартная процедура для научного издательства.
- Ключевые вопросы:
 - Научная корректность?
 - Вносит ли статья уникальный вклад в “базу знаний?”
- Обеспечивает авторитетность контента
 - Существенное отличие от новостных и прикладных изданий
 - Гораздо существенное отличие от контента в open web
- Наиболее часто цитируемый контент в технической литературе и патентах

Восемь новых журналов IEEE 2015г.

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

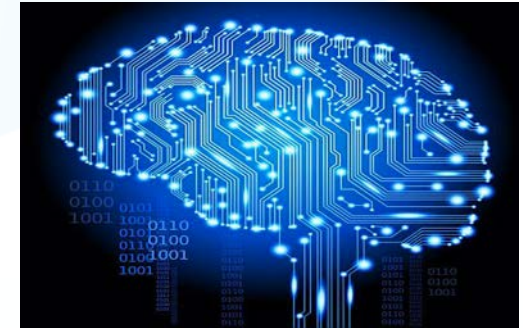


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- *IEEE Transactions on **Emerging Topics in Computational Intelligence***
- *IEEE Transactions on **Green Communications and Networking***
- *IEEE Transactions on **Radiation and Plasma Medical Sciences***
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- *IEEE Transactions on **Sustainable Computing***



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Примеры новых конференций IEEE в 2014г.



- **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

IEEE и патенты

Инновация – это ключ к росту современной экономики

Современная экономика представляет возможность инвестировать в развивающиеся технологии и исследования, которые приведут к росту рынка.

- Разработки новой продукции позволяет компаниям удовлетворить потребности рынка и увеличить ассортимент в ожидании подъема рынка.
- Инновация – это ключ к успеху в конкурентной среде и процветанию завтра.



Инновация – это ключ к росту современной экономики

IEEE помогает организациям удовлетворить требования современной экономики путем доступа к наиболее инновационным и релевантным результатам исследований, необходимых для создания продукции «завтрашнего дня».



IEEE содействует созданию новых патентов



Analysis of Patent Referencing to IEEE Papers, Conferences, and Standards 1997-2012

Report prepared for:

IEEE
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P.O. Box 1331
Piscataway, NJ 08855-1331, USA

Report prepared by:

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

June 5, 2013

IEEE вновь заняло первое место в исследовании топ-40 патентующих организаций

- В три раза больше цитат на издания IEEE, чем любое другое издательство
- Ссылки на IEEE в патентах выросли на 660% начиная с 1997 г.
- Повышается значимость технической литературы в патентах
- IEEE публикует чрезвычайно важные исследования

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

Пример патента, цитирующего исследования, опубликованные IEEE

This patent has
18 references to IEEE

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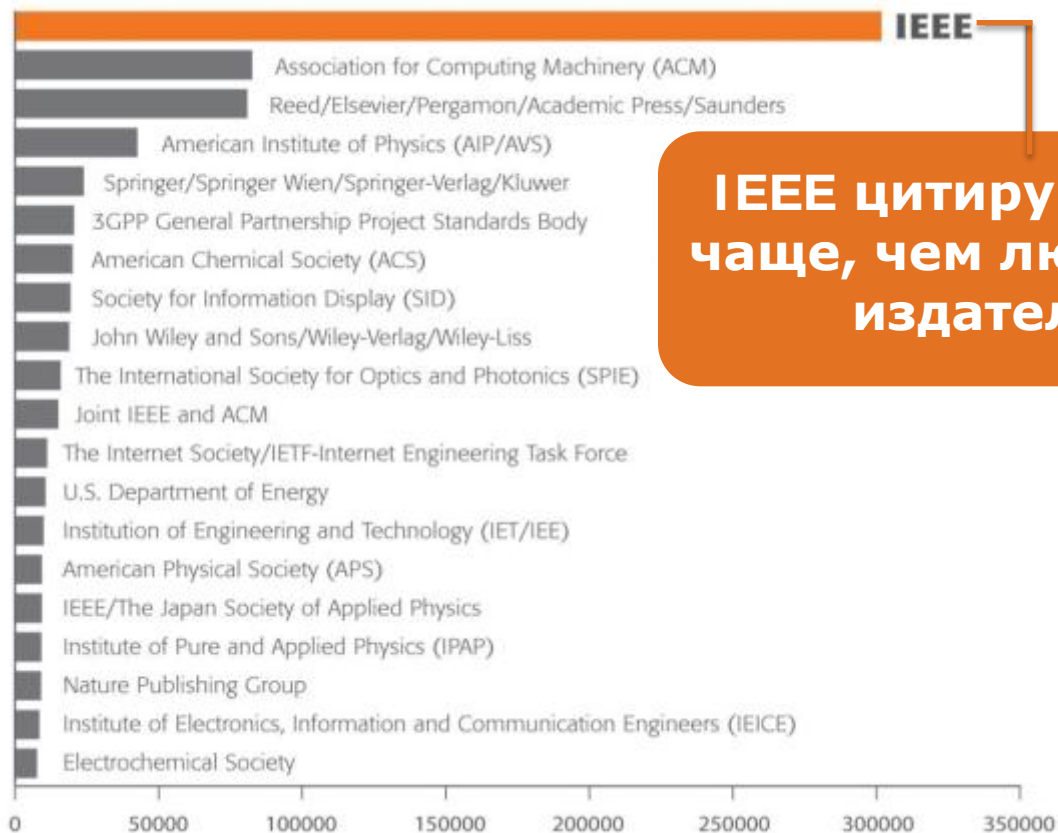
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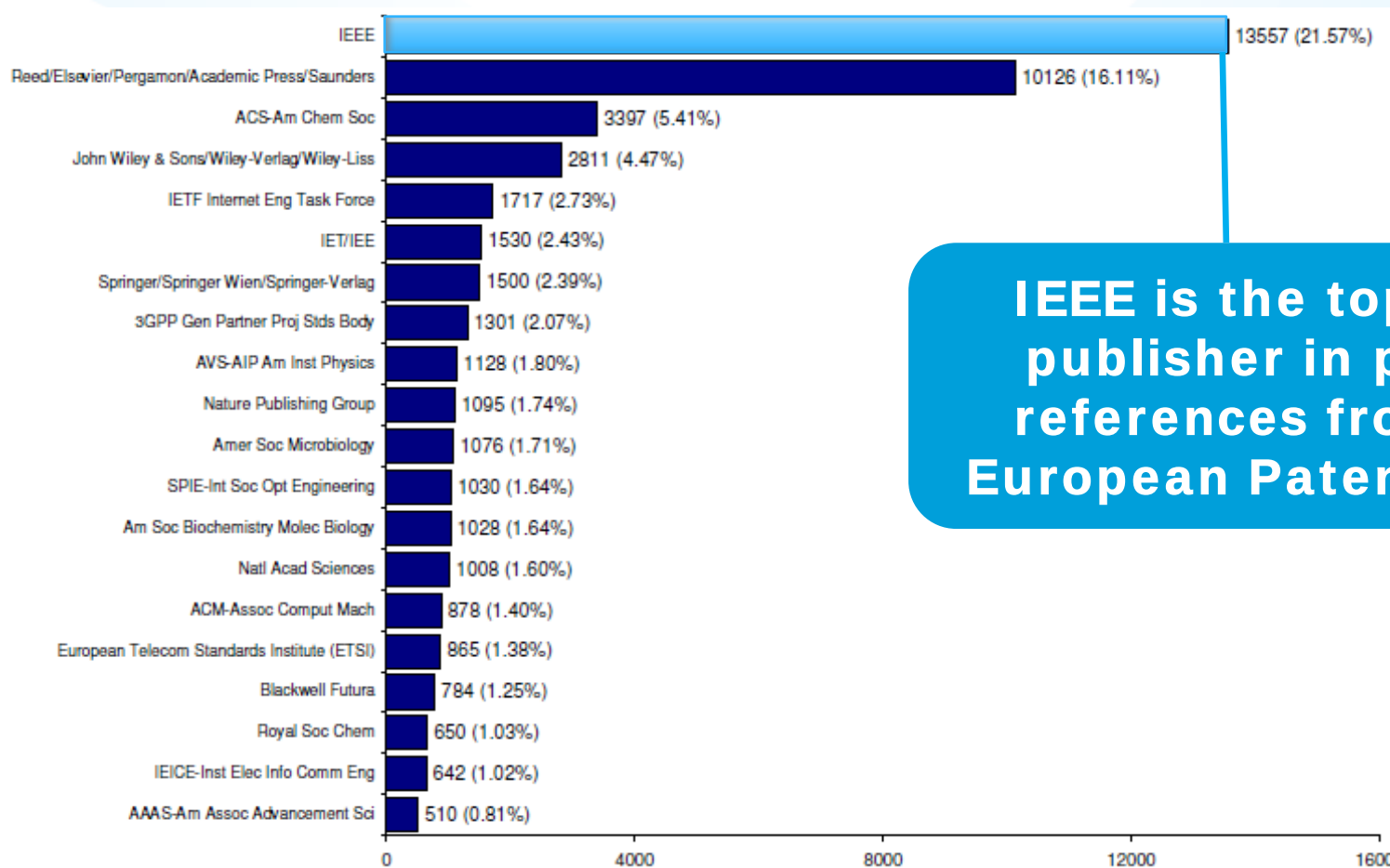


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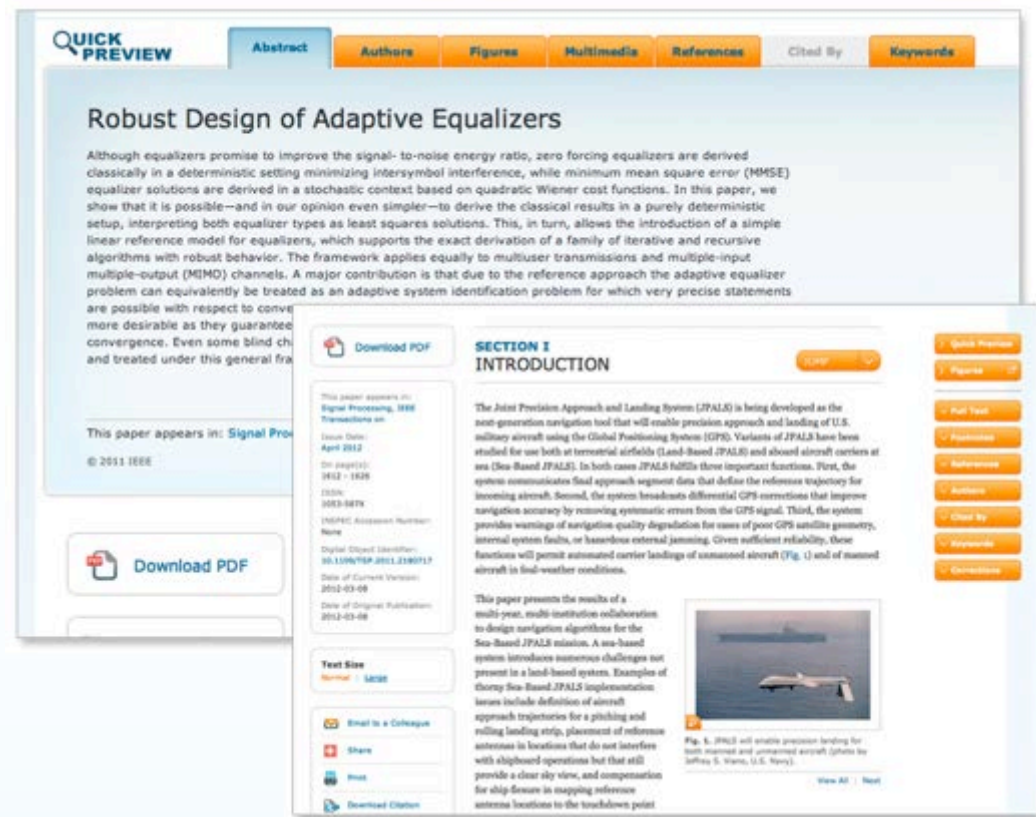
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SECTION III

OCEANOGRAPHY SCIENCE AND APPLICATIONS

A. Previous Work and Limitations of F

Satellite altimetry measurements of ocean surface the 1980s: Seasat, Geosat, ERS-1, ERS-2, TOPEX/Jason-2. These measurements have led to dramatic of oceanography [33]. For instance, the TOPEX/P demonstrated an average rise of global sea level of TOPEX/Poseidon OST measurements have been u level and their relations to the heat storage of the o TOPEX/Poseidon were used to study the massive 1 event in historical context [36]. Because of the close between the OST variability and the physical state o OST measurements into ocean circulation models h global ocean circulation patterns [38]. OST measure scientific predictive capabilities. For instance, altim

JUMP ▼

- I. Introduction
- II. Hydrology Science and Applications
- III. Oceanography Science and Applications
- IV. Swot Ka-Band Radar Interferometer (Karin)
- V. Conclusion

➤ Quick Preview

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Fig. 4.

Fig. 5.

Fig. 5. Sea surface temperature from the AVHRR instrument. Tracks from the Topex/Poseidon and Jason radar altimeters are also shown.

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Fig. 6.

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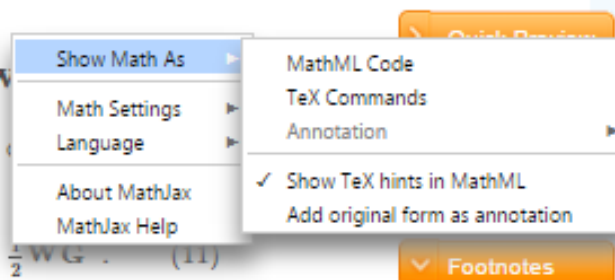
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nence

$$\begin{aligned}\dot{\mathbf{B}} + \mathbf{B}^2 &= \dot{\mathbf{X}}\tilde{\mathbf{W}}^T = \mathbf{X}\mathbf{W}^T + \mathbf{X}_1\mathbf{W}_1^T \\ &= \frac{1}{2}[(\mathbf{F} + \mathbf{G} + \mathbf{R})\mathbf{W}^T + \mathbf{G}_1\mathbf{W}_1^T]\end{aligned}$$

The skew-symmetry constraint by transposing both members of (10) and hand-by-hand the transposed equation from (10) yields

$$2\frac{d\mathbf{B}}{dt} = \frac{1}{2}(\mathbf{F} + \mathbf{R})\mathbf{W}^T - \frac{1}{2}\mathbf{W}(\mathbf{F} + \mathbf{R})^T + \frac{1}{2}\tilde{\mathbf{G}}\tilde{\mathbf{W}}^T - \frac{1}{2}\mathbf{W}\tilde{\mathbf{G}}^T \quad (11)$$



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Arilla Avazov; Matthias Pätzold

IEEE Transactions on Vehicular Technology

March 2016, Volume: 65, Issue: 3

Pages: 1070 - 1082, DOI: 10.1109/TVT.2015.2415256

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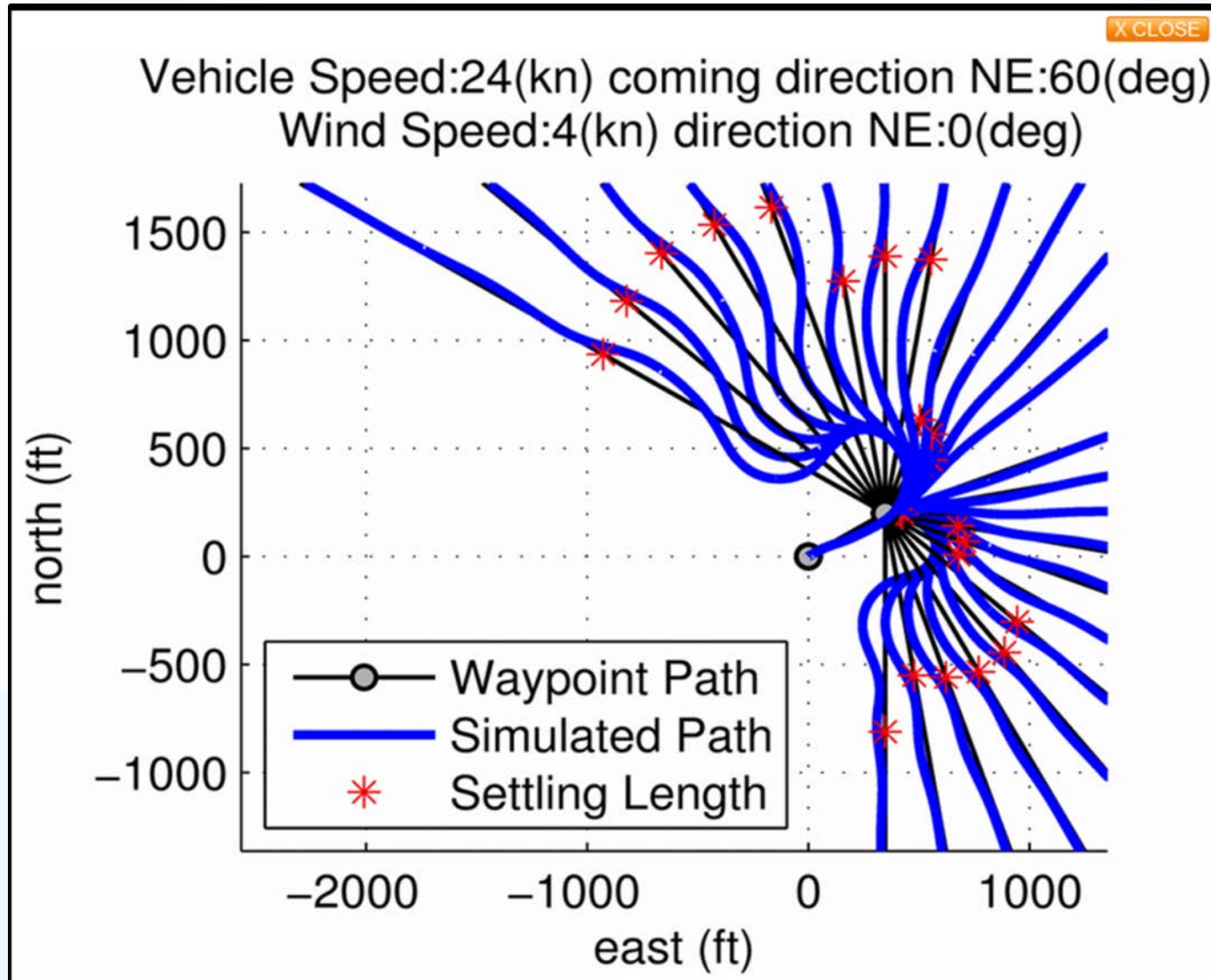
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SECTION 1.

Overview

1.1 Scope

The scope of this standard is the specification that is based upon the mechanical/electrical interface is intended to serve government/commercial

1. Overview

1.1 Scope

1.2 Purpose

1.3 Background

1.4 Annexes overview

2. Normative references

2.1 Conventions

3. Definitions and special terms

3.1 Special terms

4. Qualification requirements

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5.6 Workmanship

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Related Articles

» IEEE Std 1505-2010 (Revision of IEEE Std 1505-2008)

» P1505.3/D11, May

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Abstract

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Versions

The guidelines for online monitoring of large synchronous generators are described in this guide. High-level discussions of each of the proposed monitoring methods, and recommended threshold values, whenever there is a general agreement on those values, are included in this standard. Instrumentation that is clearly understood to belong to the protection scheme of the generator (e.g., differential protection) is not covered by this guide.

Date of Publication:
11 April 2014

DOI:
10.1109/IEEESTD.2014.6797854

E-ISBN:
978-0-7381-9019-8

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SECTION 1.
Overview

1.1 Scope

This document describes guidelines for online monitoring of large synchronous generators with ratings of 10 MVA and above. The scope includes generators with salient-pole rotors as well as generators with cylindrical rotors.

This standard also provides basic information on the various online monitoring techniques described as well as

Full Text

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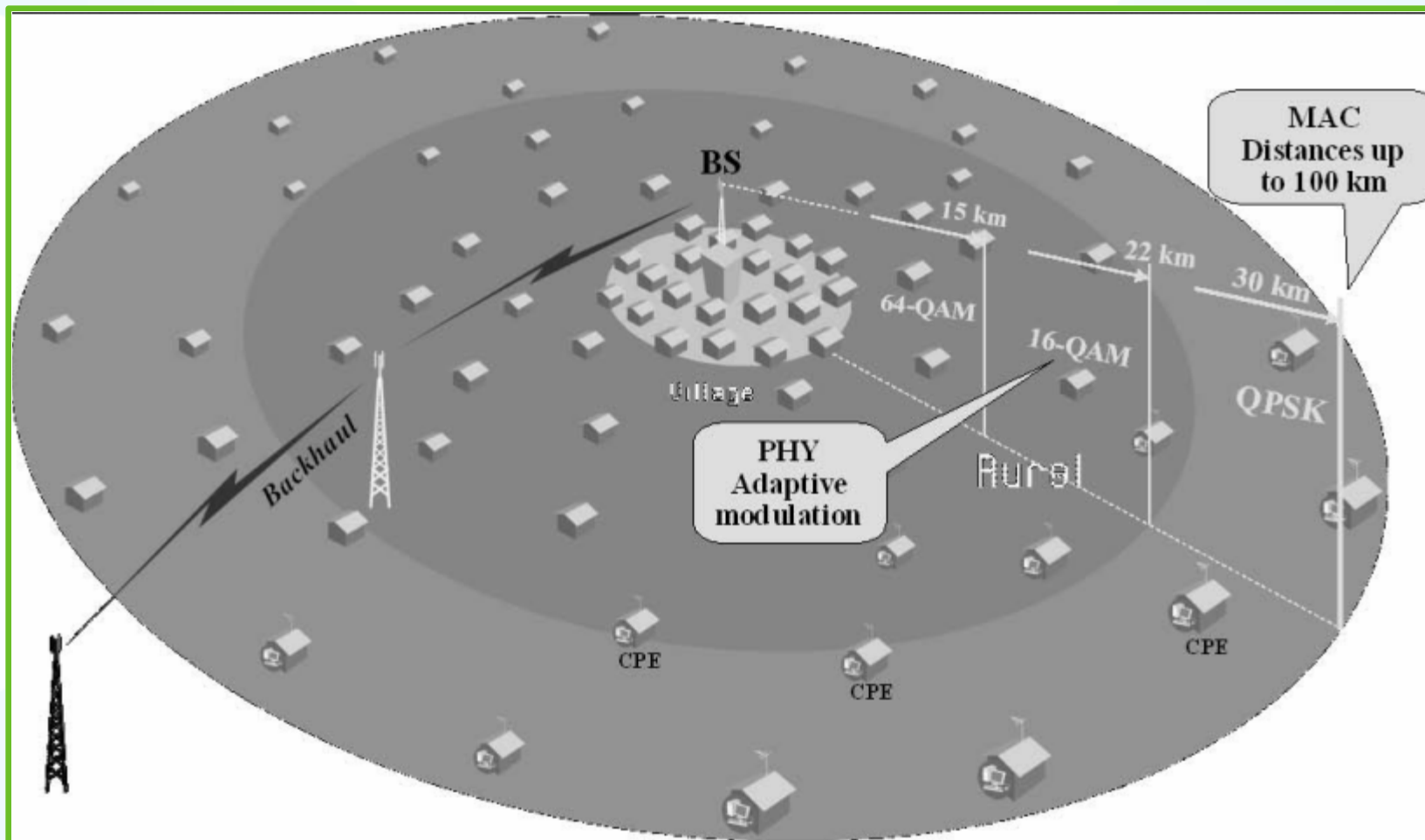
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» IEEE P1129/D9,
September 2013

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This document recommends best engineering practices for the installation and deployment of IEEE 802.22 systems to help assure that such systems are correctly installed and deployed.

1.2 Purpose

This document provides detailed technical guidance to installers, deployers, and operators of IEEE 802.22

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From 1949 To 2016

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EG 2021-3:2013 - SMPTE Engineering Guideline - Broadcast Exchange Format (BXF)

— Use Cases
SMPTE EG 2021-3:2013
Year: 2013
Pages: 1 - 49, DOI: 10.5594/SMPTE.EG2021-3.2013
SMPTE Standards

Abstract (902 Kb)

☐ **IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques - Redline**

IEEE Std 1528-2013 (Revision of IEEE Std 1528-2003) - Redline
Year: 2013
Pages: 1 - 500
IEEE Standards

Abstract (5678 Kb)

ST 425-6:2014 - SMPTE Standard - Quad 3 Gb/s Serial Digital Interface for Stereoscopic Image Transport

SMPTE ST 425-6:2014
Year: 2014
Pages: 1 - 16, DOI: 10.5594/SMPTE.ST425-6.2014
SMPTE Standards

Abstract (385 Kb)

ST 292-1:2012 - SMPTE Standard - 1.5 Gb/s Signal/Data Serial Interface

SMPTE ST 292-1:2012
Year: 2012
Pages: 1 - 20, DOI: 10.5594/SMPTE.ST292-1.2012
SMPTE Standards

Abstract (476 Kb)

Standards Dictionary Terms ?

- rf
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- eut
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50. (WO1979000169) TELEVISION SYSTEM SCHEDULER

PCT Biblio. Data Description Claims National Phase Notices Drawings Documents

Latest bibliographic data on file with the International Bureau

Pub. No.: WO/1979/000169 International Application No.: PCT/US1978/000094
Publication Date: 05.04.1979 International Filing Date: 02.10.1978
IPC: G04G 15/00 (2006.01), H03J 5/02 (2006.01)

Applicants:
Inventors:
Priority Data: 40763/77 30.09.1977 GB
Title (EN) TELEVISION SYSTEM SCHEDULER (FR) SYSTEME PROGRAMMATEUR DE TELEVISION

Abstract: (EN) A television receiver includes a chassis (12) having a digital tuner (14) for generating local oscillator signals for tuning the receiver to respective channels in response to binary signals representing corresponding channel numbers and a signal processing unit (18) for controlling at least one characteristic of the receiver, such as the sound level, in response to binary signals representing the controllable characteristic. The receiver also includes a microcomputer (34) including a RAM (130) (Random Access Memory) with at least one memory location for storing binary signals representing the present time and a plurality of memory locations for storing binary signals representing future times and channel numbers of channels to be tuned at those times. A control portion (100) of the microcomputer causes binary signals representing the channel number associated with a future time to be coupled to the digital tuner when the present time matches the future time. A keyboard (32) having ten digit keys for generating binary signals representing the decimal digits between 0 and 9 and two characteristic keys to generate binary signals representing an increase and a decrease in the controllable characteristic is provided to enable user control of various operating modes of the receiver. When a user operates digit keys to form a number within a predetermined range of channel numbers e.g. 2-83, the control portion of the microcomputer causes the channel to be tuned. Subsequently operation of digit keys within the predetermined range of channel numbers causes the channel to be changed and operation of the characteristic keys causes the controllable characteristic to change. When a user operates digit keys to form a number not within the predetermined range of channel numbers, the control portion of the microcomputer causes power to be decoupled from the chassis. Subsequently, in response to the operation of a predetermined one of the characteristic keys, the control portion causes binary signals generated in response to the operation of the digit keys to be selectively coupled to either the RAM location associated with the present time or to the RAM location for future selections.

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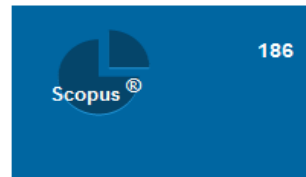
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See linkage diagram (CoCSC – the wider IEEE: [R8 TA relations higher committees v1](#))

Next Free Webinar

Wednesday December 2nd 13.30-14.30 **Review of Conference Finance**

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Special Webinar for **first-time conference organizers** and conference organizers not too familiar with the aspects of co-sponsorship of IEEE we offered a free webinar in October.

Topics were: * **How to start a conference** * Timelines * Committee lists * Financial vs. technical co-sponsoring * Memorandums of understanding (MoUs) * The process of applying for co-sponsoring * IEEE Conference Exchange (ICX) * IEEE Xplore and how do I get my proceedings published there? * Where can IEEE staff help me? * What does co-sponsoring cost? * Specifics of IEEE Region 8 * Questions and answers



This webinar was intended to give you understanding of the basic concepts and the opportunity to ask questions which will be answered right away. It was presented by

John Tracy, IEEE Conference Services and **Jan Haase**, IEEE R8 Past Conference Coordinator.



The webinars are free of cost. It took place **Wednesday, October 14, 2015, 3:30pm UTC**. It was about one hour including Q&A.

Previous webinars:

14.10.2015 conference organization basics

15.10.2014 conference organization: finances

17.09.2014 conference organization basics

04.12.2013 conference organization: finances

06.09.2013 conference organization basics

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IEEE



Спасибо!

Андрей Соколов

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- "Researchers publish for economic self-interest, ... it provides visibility and is evidence of productivity." (*Ученые публикуются в собственных интересах, ... это обеспечивает видимость и доказывает продуктивность.*)
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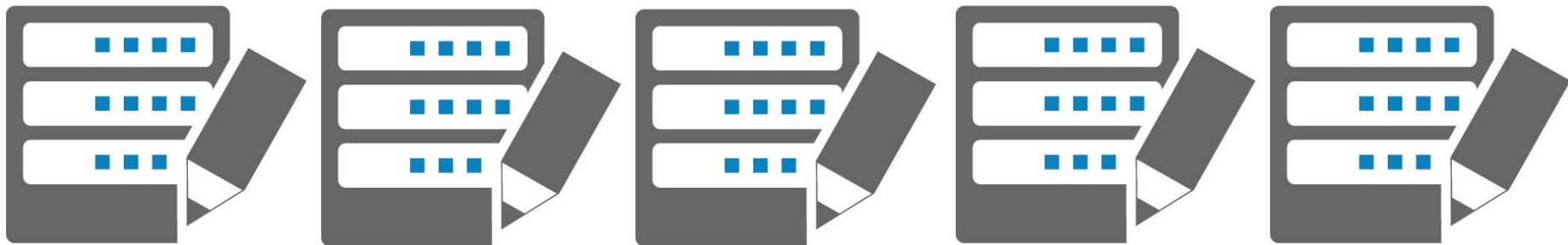


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Elements of a manuscript

Title

Abstract

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Introduction

Methodology

Results/Discussions/Findings

Conclusion

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Paper Structure

Title

An effective title should...

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- Grab the reader's attention
- Describe the content of a paper using the fewest possible words
 - Is crisp, concise
 - Uses keywords
 - Avoids jargon

Good
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VS.

Bad
Title

Good vs. Bad Title

A Human Expert-based Approach to Electrical Peak Demand Management

VS

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Good vs. Better Title

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

VS

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Paper Structure

Abstract

A “stand alone”
condensed version of the
article

- No more than 250 words;
written in
the past tense
- Uses keywords
and index terms

Why you did it

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

What you did

**How the results
were useful,
important & move
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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

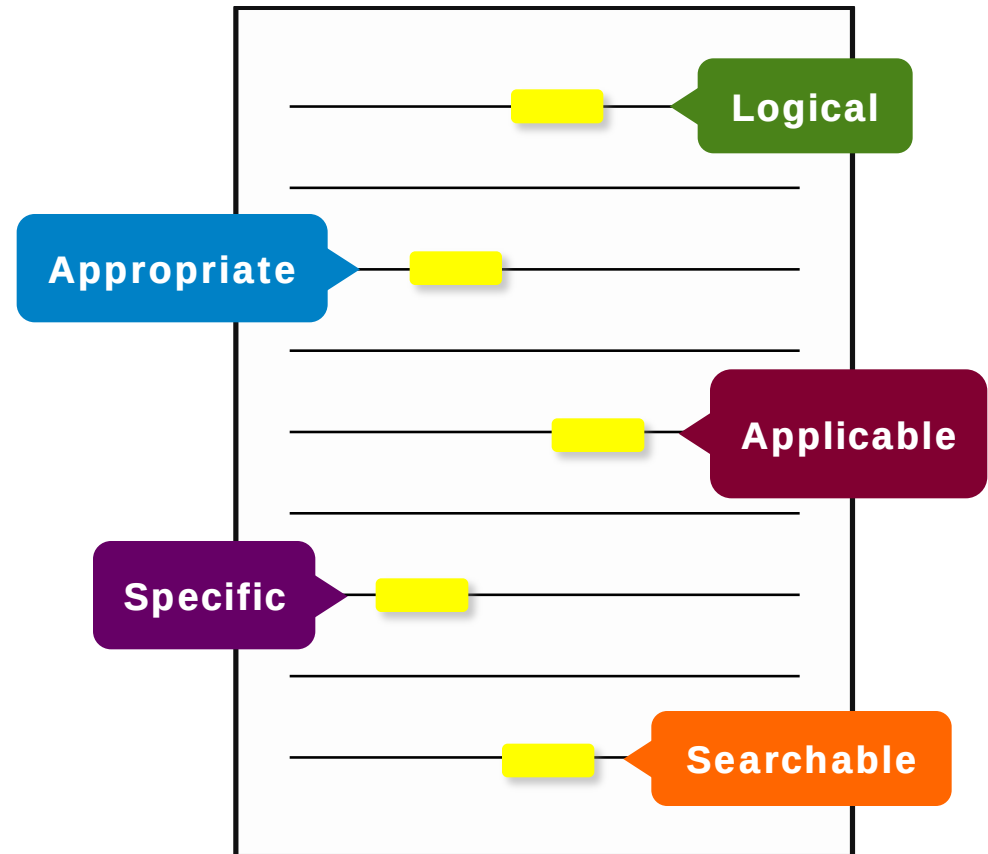
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe**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

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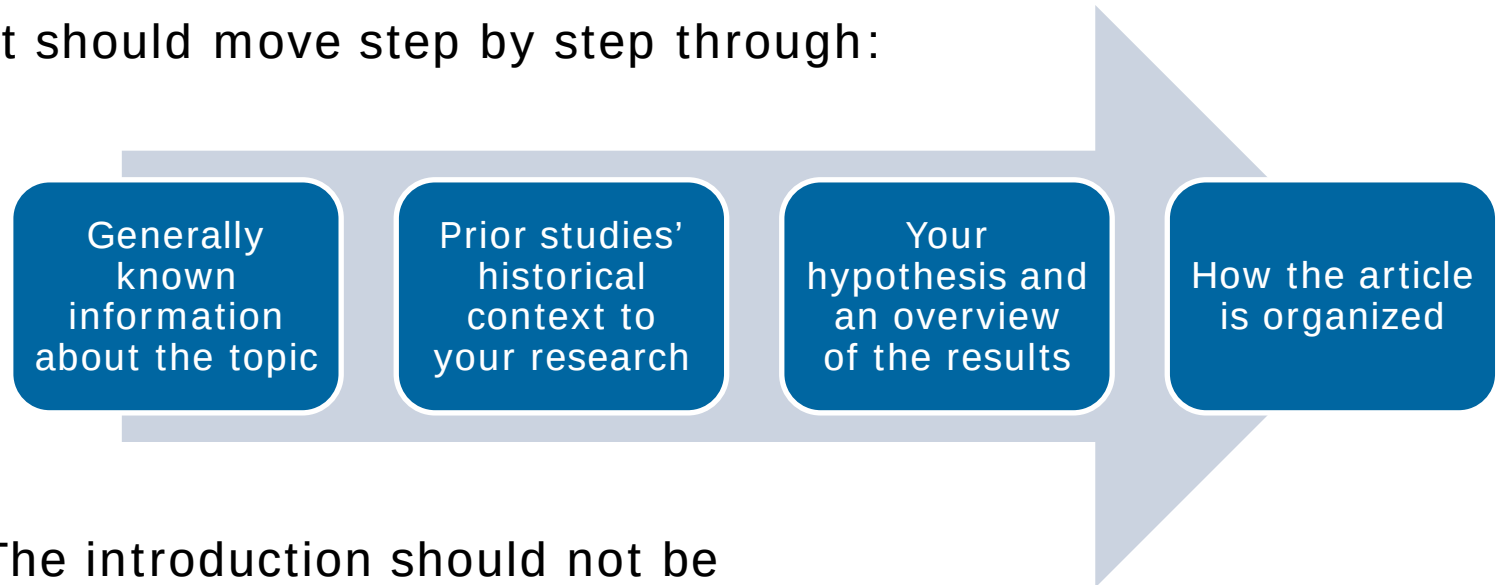
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Paper Structure

Introduction

- A description of the problem you researched
- It should move step by step through:



- The introduction should not be
 - Too broad or vague
 - More than 2 pages
 - Written in the present tense

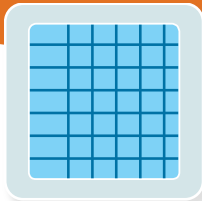
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- Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis
- Use illustrations to clarify ideas, support conclusions:

Tables

Present representative data
or when exact values are
important to show



Graphs

Show relationships
between data points
or trends in data



Figures

Quickly show ideas/conclusions
that would require detailed
explanations



Paper Structure

Results / discussion

Demonstrate that you solved the problem or made significant advances

Results: Summarized Data

- Should be clear and concise
- Use figures or tables with narrative to illustrate findings

Discussion: Interprets the Results

- Why your research offers a new solution
- Acknowledge any limitations

Discussion

Results

the SC algorithm over the whole range of ω values increase to 3–4 K, except for the TIRS_{1–11} database, with an RMSE of 2 K. This last result is explained by the ω distribution, which is biased toward low values of ω in this database. When only atmospheric profiles with ω 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 ω 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) algorithm (two TIR bands required). Direct inversion of the transfer equation, which can be considered as a "ground-truth" algorithm, is assumed to be accurate enough. The SC algorithm in this letter is a continuation of the previous SC algorithm developed for Landsat-4 and Landsat-5 TIR sensors, which was 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_w , and L_v 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 ω 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-Muñoz [18]. Although an extensive validation exercises 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
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 - 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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- Can it be clearer?
- Is there enough detail?

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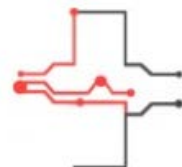
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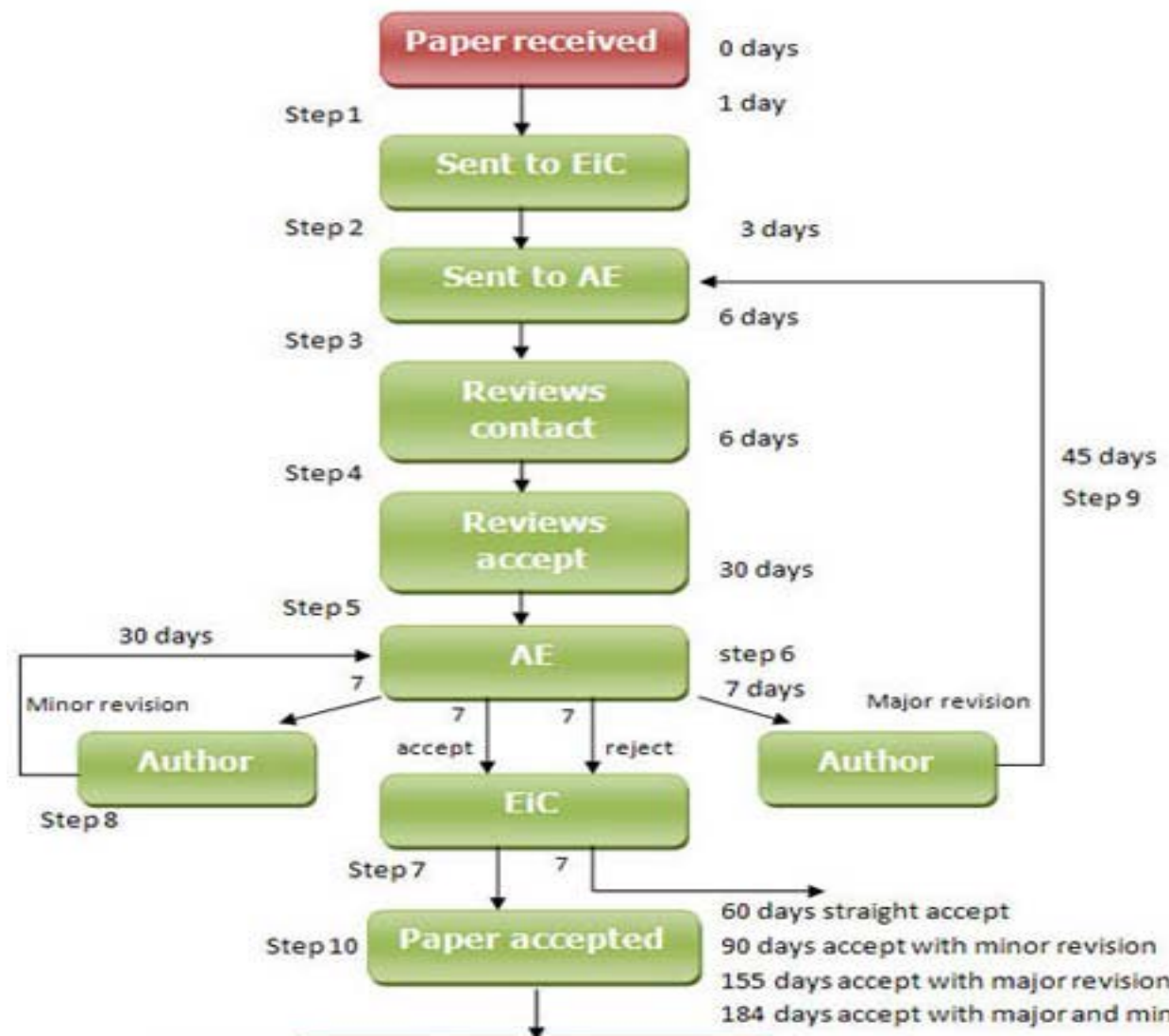
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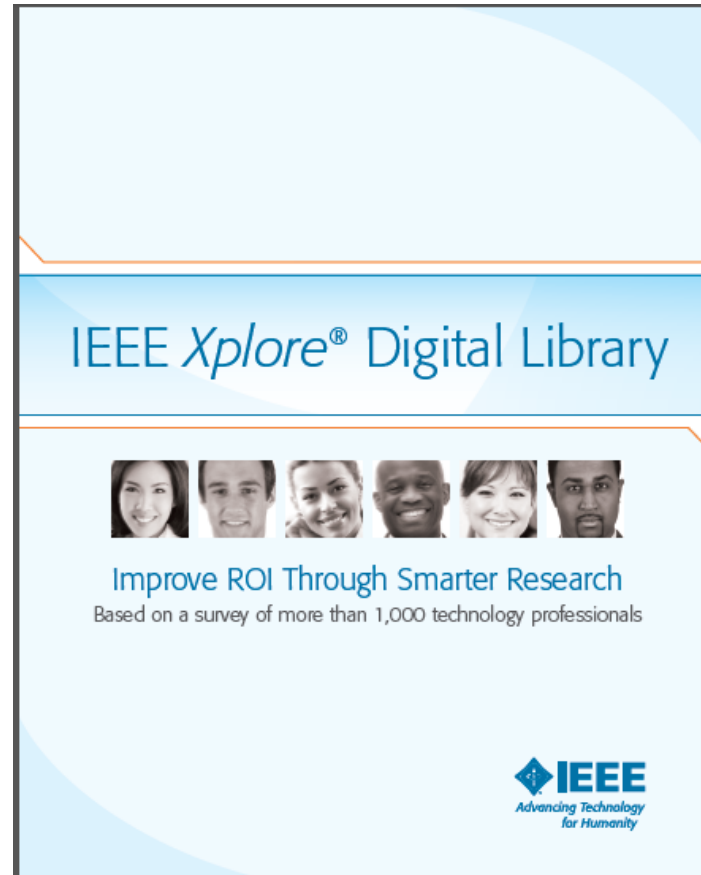


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