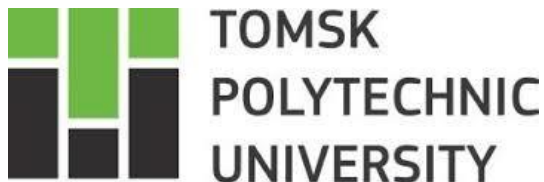


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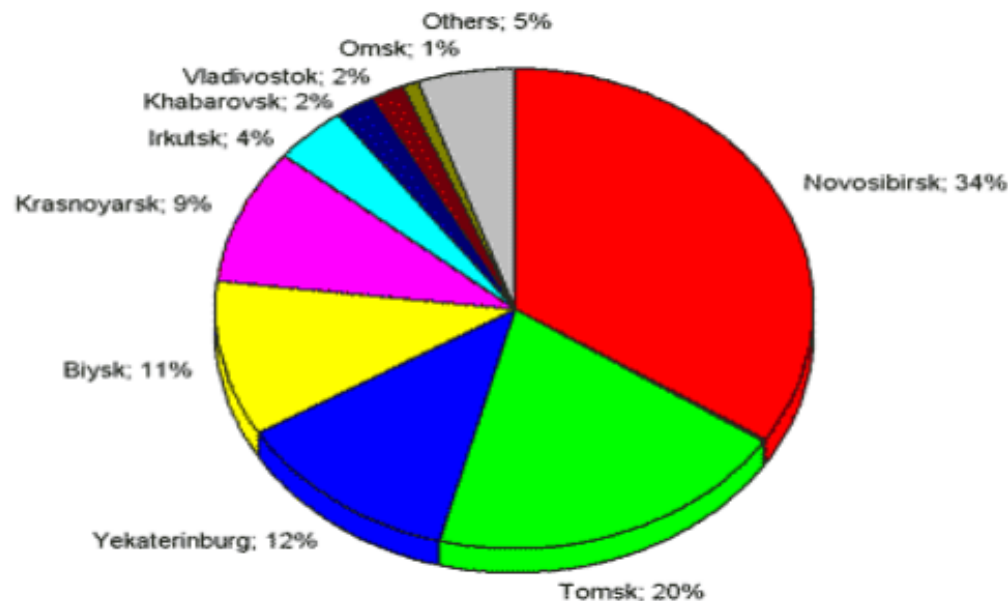
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On 13 February 2003 IEEE Russia Siberia Section has been established through the split of the Russia Moscow section. Russia Siberia Section has the strong potential for membership growth through its big cities at Ural (in the order of population decreasing: Yekaterinburg, Chelyabinsk, Tyumen, etc.), Siberia (Novosibirsk, Omsk, Krasnoyarsk, Irkutsk, Barnaul, Novokuznetsk, Kemerovo, Tomsk, Ulan-Ude, Chita, etc.) and the Far-East (Vladivostok, Khabarovsk, etc.) Federal Districts of Russia.



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The Tomsk State University of Control Systems and Radioelectronics IEEE [Student Branch](#) was formed in 2000. It is the 3rd IEEE Student Branch in Russia. The branch is active in promoting the IEEE through exciting and informative events ranging from technical seminars to careers events as well as professional conferences. We hope that these events help our members gain valuable knowledge and skills as well as being enjoyable.



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This is the web portal for the Tomsk IEEE Chapter & Student Branch, to communicate with our members and anyone interested in technology and knowledge. The main purpose of the IEEE Tomsk is the dissemination of the theory and practice of all aspects of electrical engineering, electronics, radio, allied branches of engineering or related arts and sciences, as well as the furtherance of the professional development

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- Organize more technical and social meetings, on a wide variety of topics
- Increase the number of careers related events

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

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May 14, 2015

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

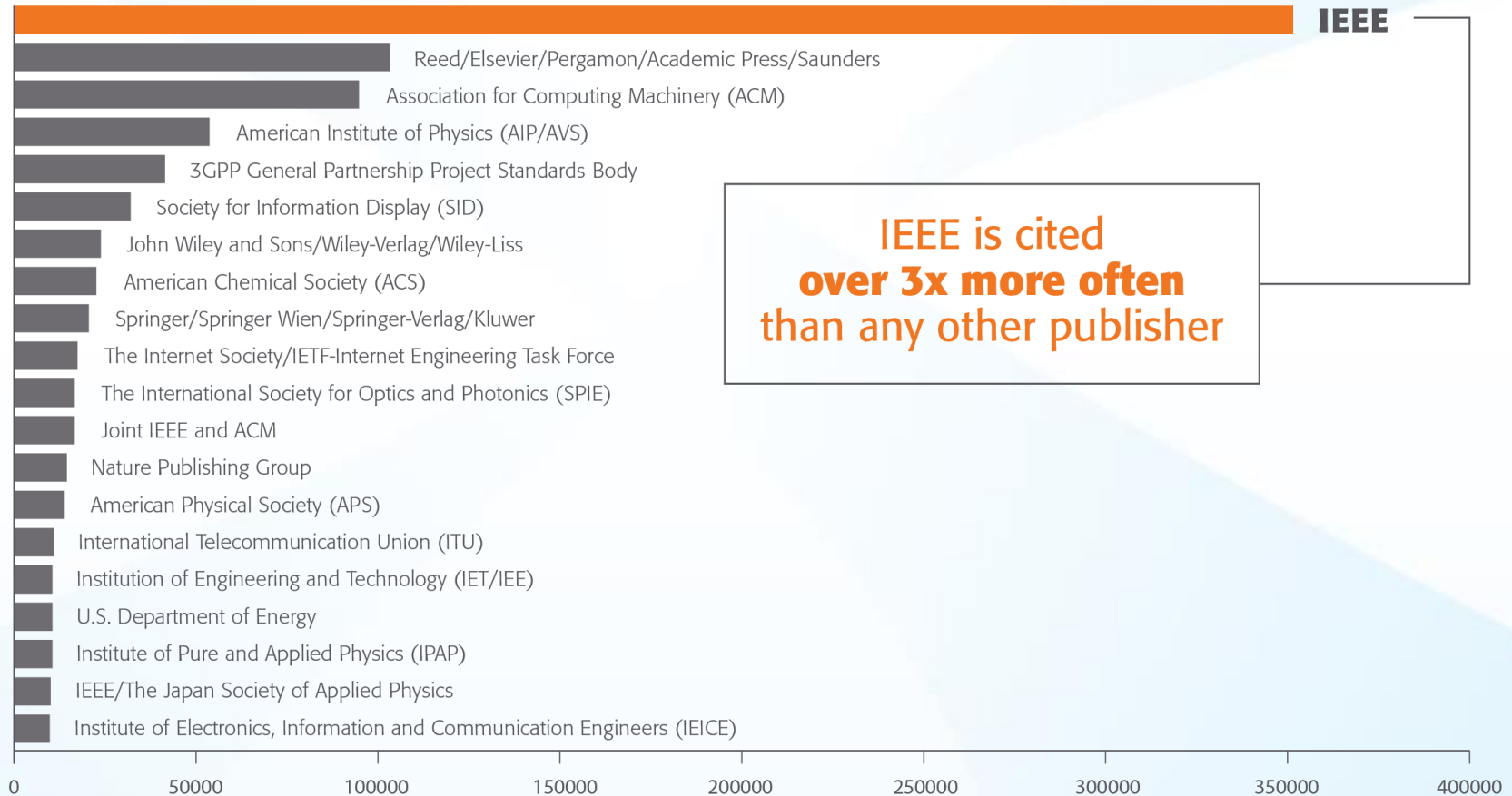
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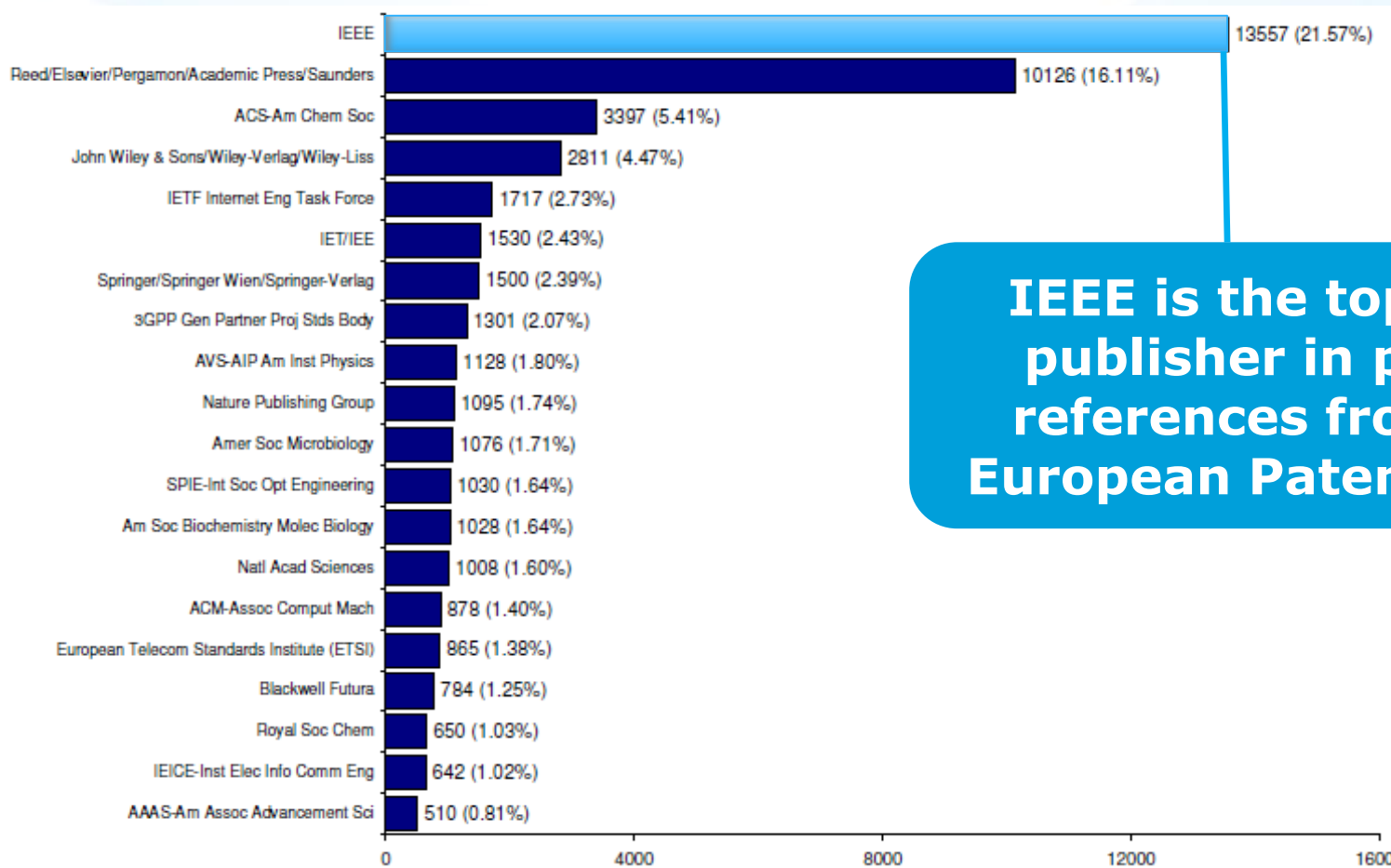
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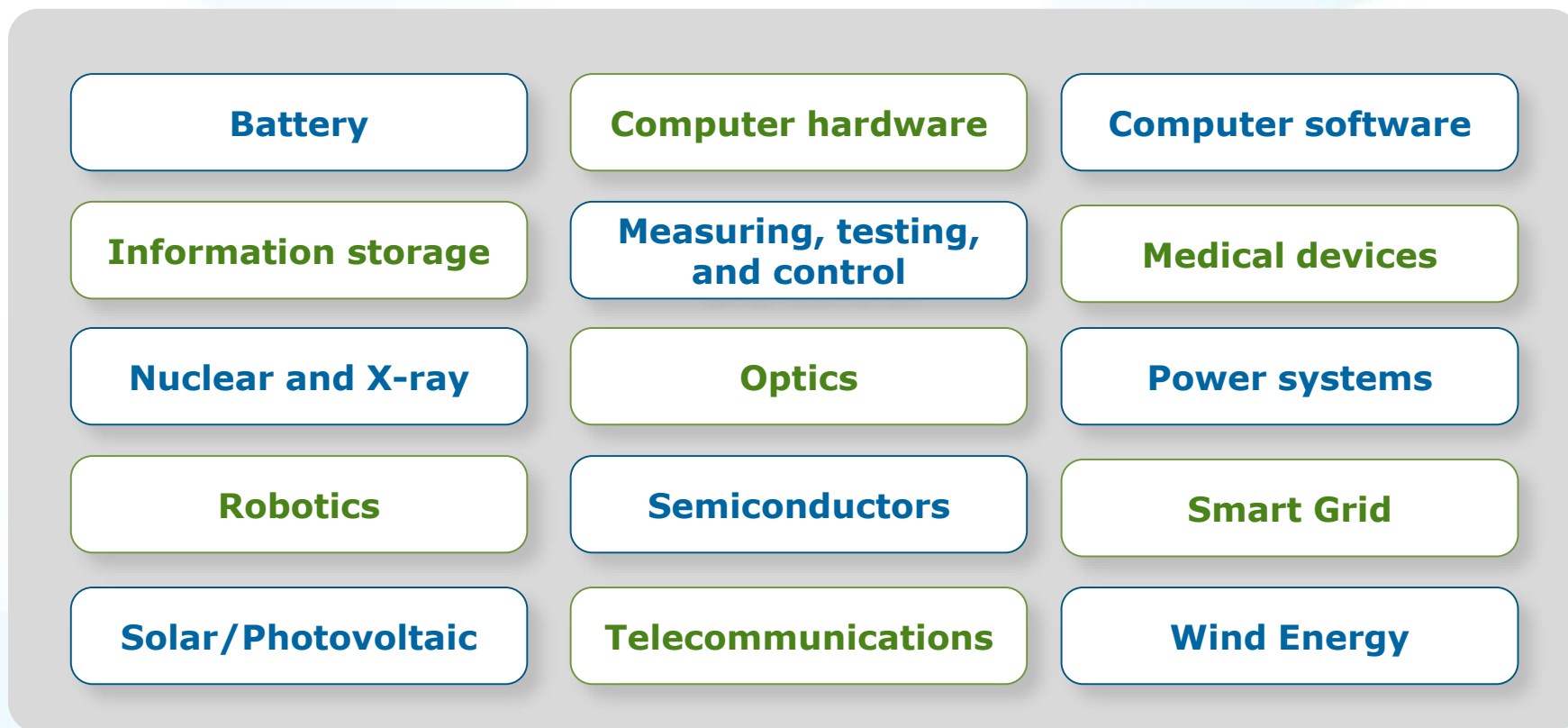
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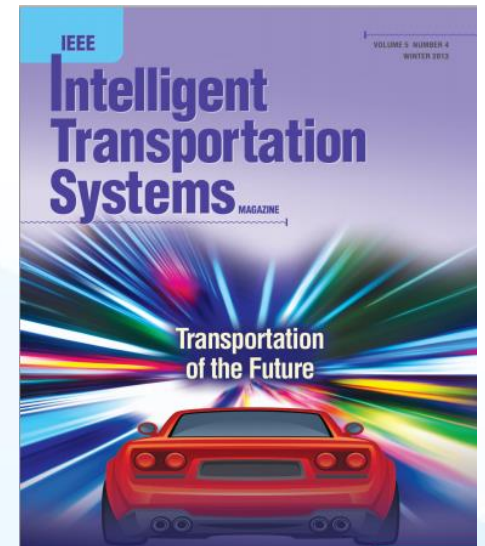
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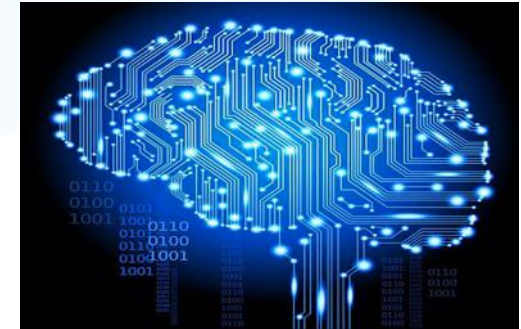
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 - IEEE Trans. on Intelligent Transportation Systems
 - IEEE Intelligent Transportation Systems Magazine
 - IEEE Trans. on Automation Science and Engineering
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- *IEEE **Communications Standards Magazine***
- *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***
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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

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- [2016 IEEE Bipolar/BiCMOS Circuits and Technology Mtg - Apr 17th](#)
- [2016 IEEE Global Humanitarian Technology Conference - Apr 18th](#)
- [2016 IEEE Compound Semiconductor IC Symp - Apr 22nd](#)
- [2016 Lester Eastman Conference - May 1st](#)
- [2016 IEEE International Integrated Reliability Workshop - Jul 11th](#)

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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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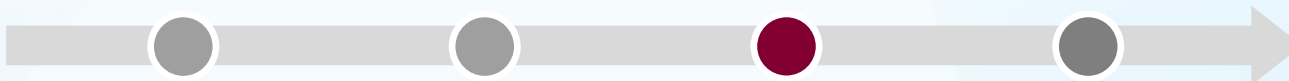
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Conference Details

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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Structure

Paper Structure

Elements of a manuscript

Title

Abstract

Keywords

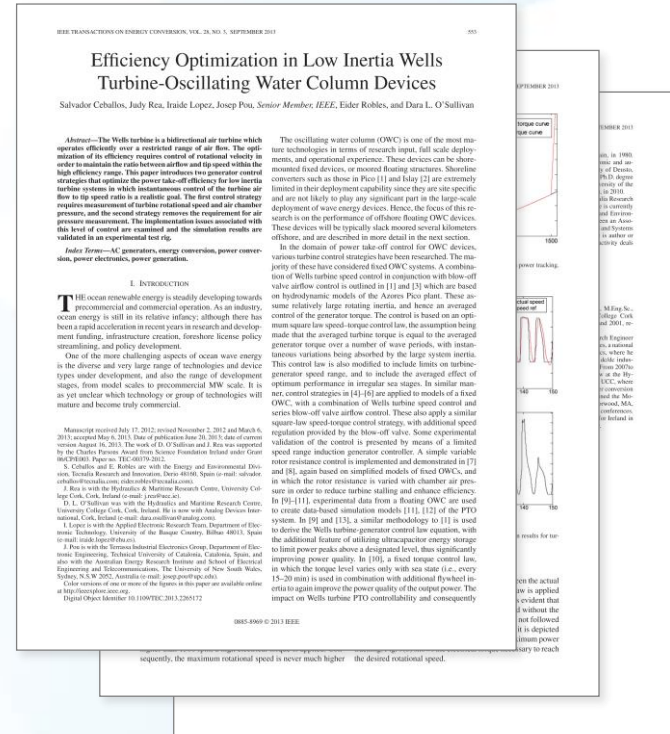
Introduction

Methodology

Results/Discussions/Findings

Conclusion

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Paper Structure

Title

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

Good
Title

VS.

Bad
Title

Paper Structure

Good vs. Bad Title

A Human Expert-based Approach to Electrical Peak Demand Management

VS

A better approach of managing environmental and energy sustainability via a study of different methods of electric load forecasting

Paper Structure

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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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

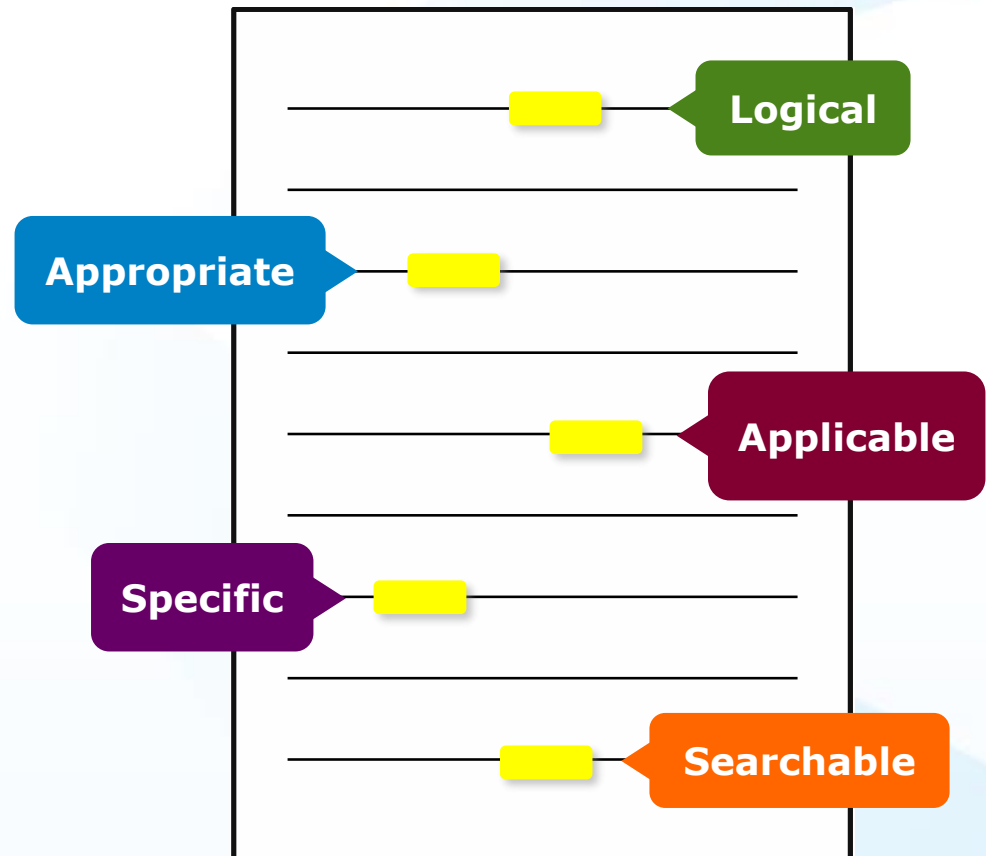
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe**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

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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



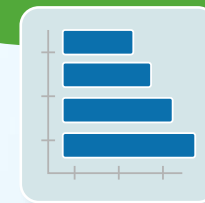
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Quickly show ideas/conclusions that would require detailed explanations



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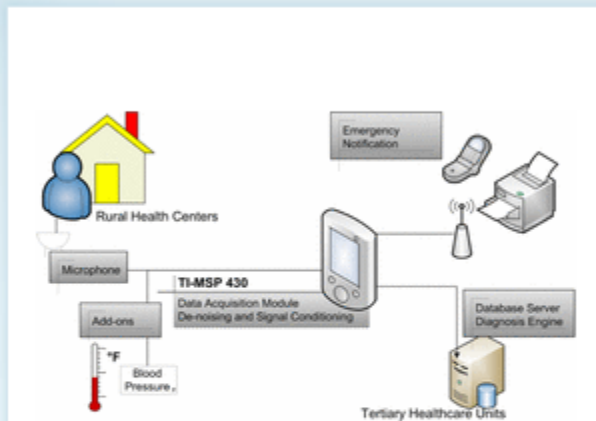


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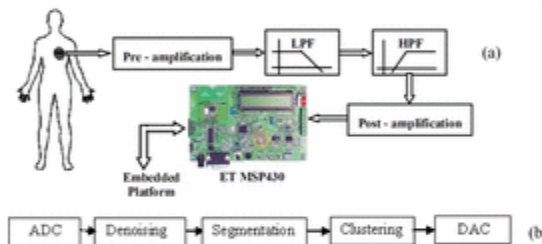


Fig. 2.

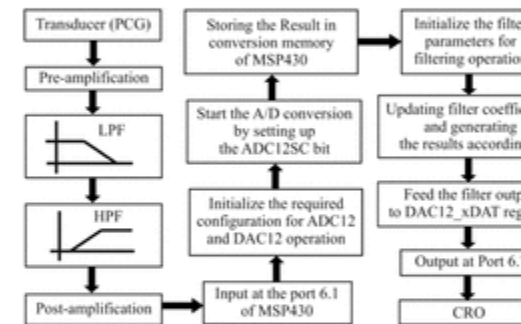
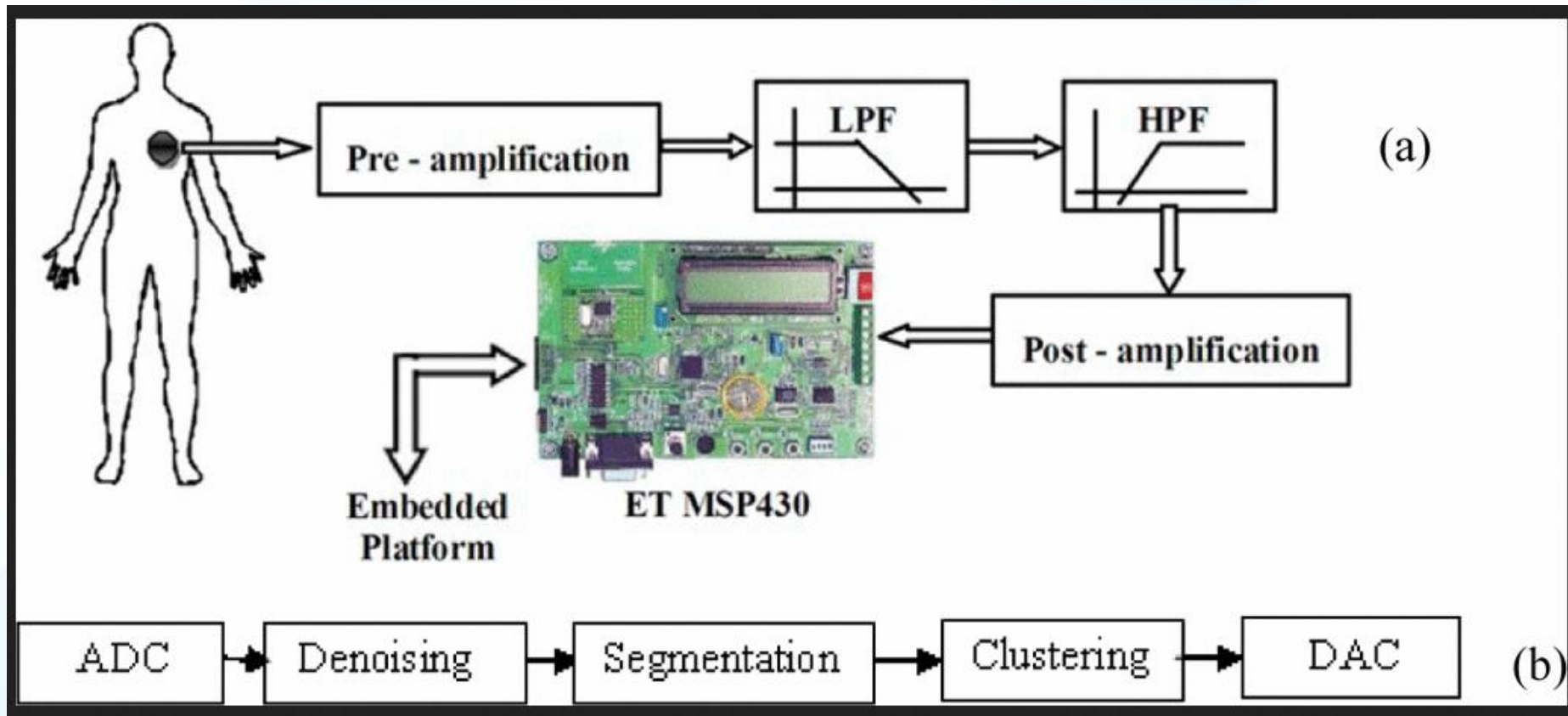


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$$\eqalignno{{\rm HS}_{\rm recover} & \! = \! \left( {1 - \frac{E\{x_{\rm HS}^2 \left( n \right)\} - E\{y^2 \left( n \right)\}}{E\{x_{\rm HS}^2 \left( n \right)\}}} \right) \! \times \! 100\% \cr & \& \hbox{(1)} \cr {\rm NOISE}_{\rm reduction} & \!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

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 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_s 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 $P_1^{n+} - P_1^{n-} = P_1^{n+} - P_1^{n-}$, 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

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

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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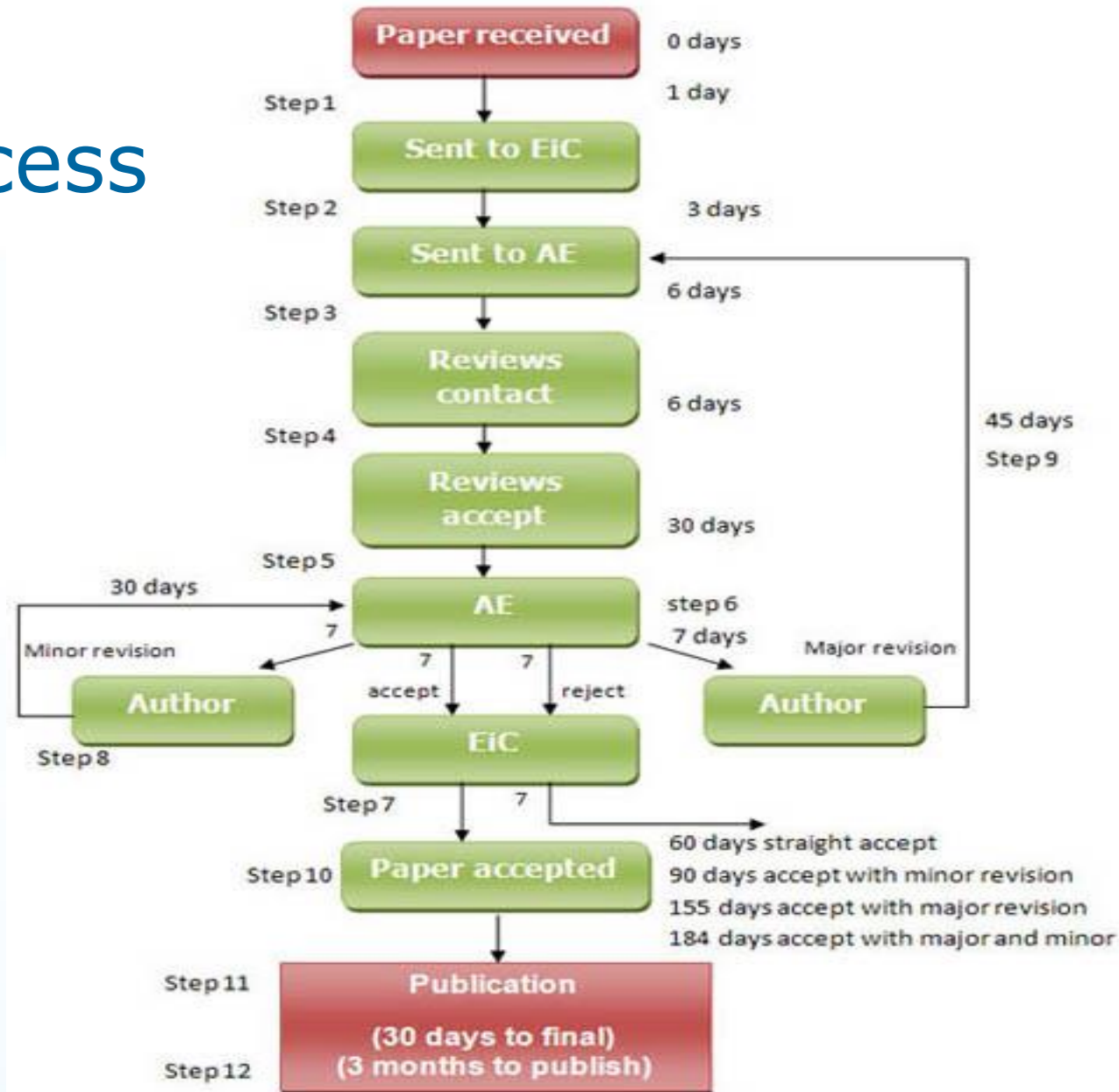
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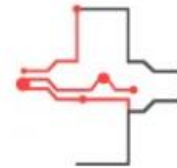


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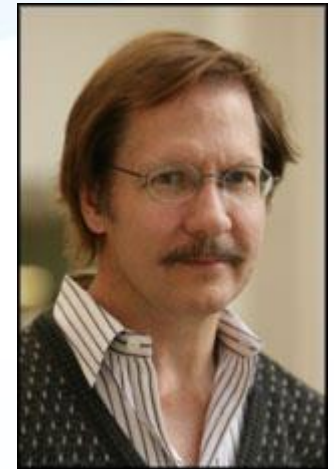
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Preparation of Papers for IEEE TRANSACTIONS and JOURNALS (December 2013)

First A. Author, *Fellow, IEEE*, Second B. Author, and Third C. Author, Jr., *Member, IEEE*

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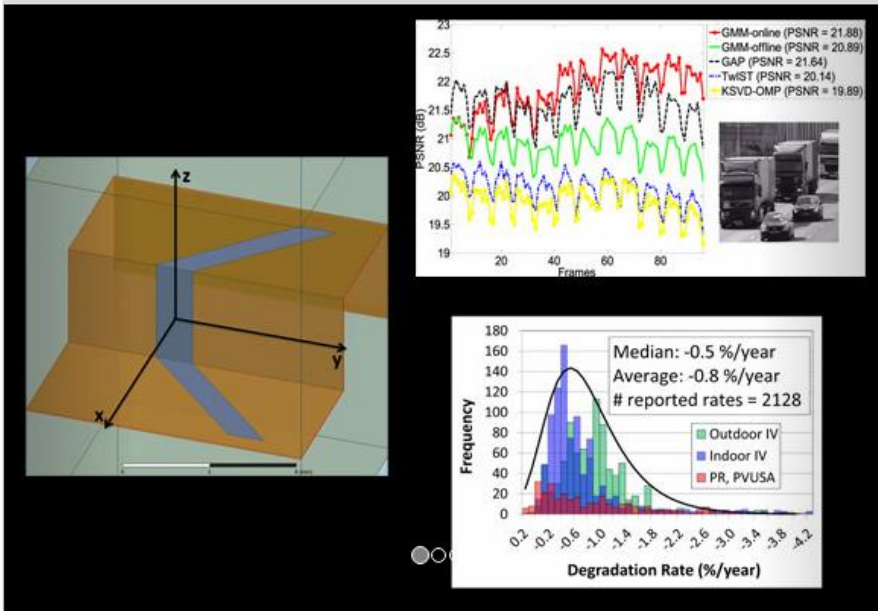
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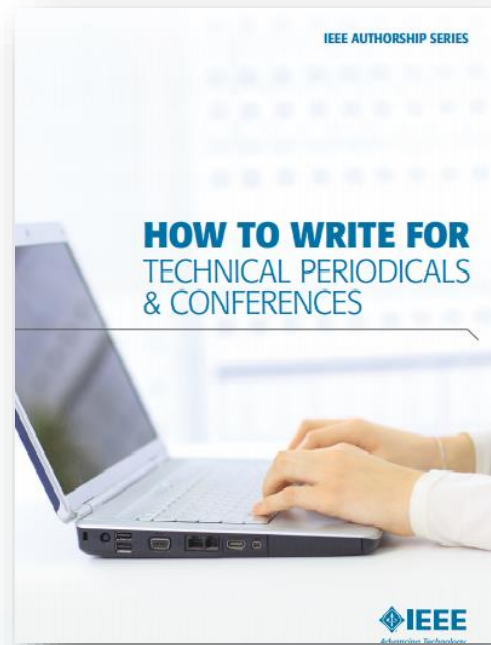
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