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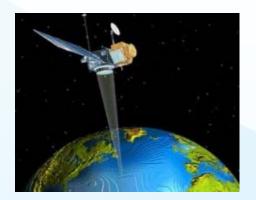


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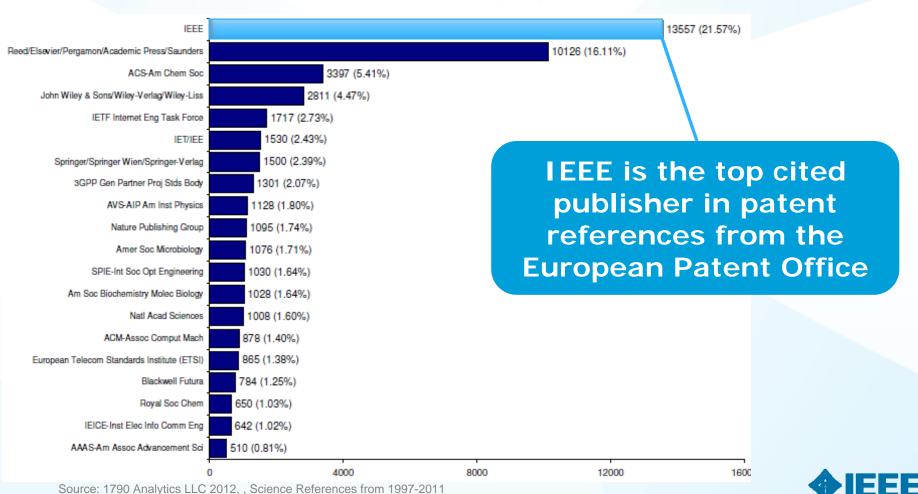
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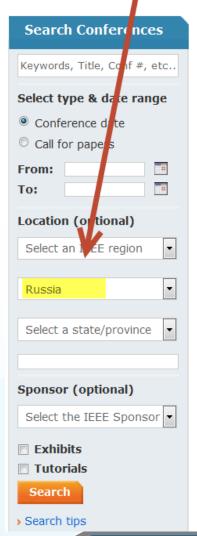
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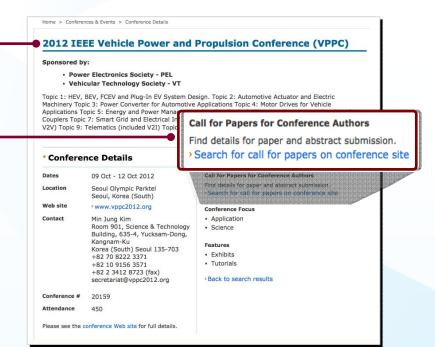
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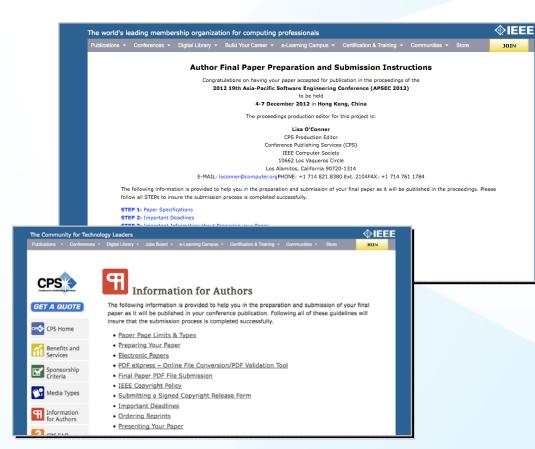




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Elements of a manuscript

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Abstract

Keywords

Introduction

Methodology

Results/Discussions/Findings

Conclusion

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An effective title should...

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A Human Expert-based Approach to Electrical Peak Demand Management

VS

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Paper Structure

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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

What you did A "stand alone" condensed version of the article No more than 250 words; Why you did it written in the past tense Uses keywords How the results and index terms were useful, important & move the field forward Why they're useful & important & move the field forward



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

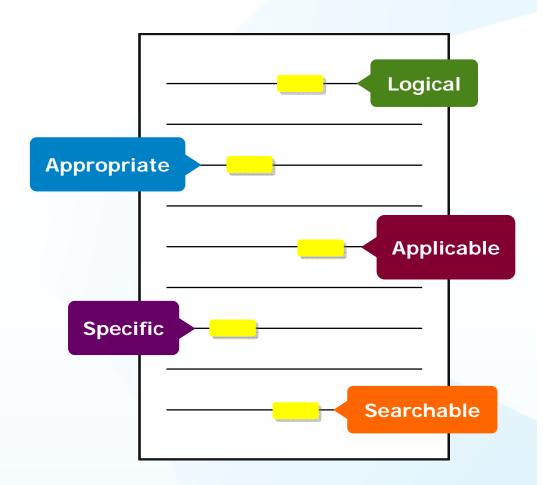
This paper presents and assesses a framework for an engineering capstone design program. We explain how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. Next, we describe a way 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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- A description of the problem you researched
- It should move step by step through:

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historical
context to your
research

Your hypothesis and an overview of the results

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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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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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Paper Structure

Results/discussion

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Results: Summarized Data

- Should be clear and concise
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Discussion: Interprets the Results

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

the SC algorithm over the whole range of ω values increase to 3-4 K, except for the TIGR: til database, with an RMSE of 2 K. This last result is explained by the w distribution, which is binsed toward low values of w in this database. When only atmospheric profiles with w values lower than 3 g - cm ⁻² are relected, the SC algorithm provides RMS around 1.5 K, with almost equal values of bias and standar deviation, around I K in both cases (with a negative bias, thus the SC underestimates the LST). In contrast, when only uvalues higher than 3 g - 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

V. DISCUSSION AND CONCLUSION

fit approach as given by (4).

The two Landagt-3 TIR bands allow the intercomparison of two LST retrieval methods based on different physical such as the SC (only one TIR band required) thms (two TIR bands required). Direct inversion e transfer equation, which can be considered rithm, is assumed to be a "ground-truth" **Discussion** andition that the informat modition that the information about the part of the property o ne ETM+ sensor on board the Landsat-7 platform. [9], and it could be used to generate consistent LST products from the historical Landaut data using a single algorithm. An advantage of the SC algorithm is that, apart from surface emissivity, only water upper content is required as input. However, it is expected that errors on LST become unacceptable for high water upper contents (e.g., > 3 g \cdot cm $^{-3}$). This problem can be purily solved by computing the atmospheric functions directly from τ , L_{ω} , and $L_{\mathcal{L}}$ 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 (apert from surface emissivity at the two TIR bands). However, the SW algorithm can be

and the two TIR bands). However, the SW disparitime on be not been stated by the state of the two TIR bands). However, the SW disparitime on be only applied to the new Landschi STRS data, since previous TIM-EIM senters only had one TIR band.

The LST dispositions presented in this latter were tested with simulated data sets obtained for a variety of global strangeless. The LST disposition is not confidence and unface aministriate. The sentials whowed SMSE values of typically less than 15 K, although for the SC algorithm, this accounty is only achieved for a values below 3 g. cm⁻². Algorithm testing also showed that the SW errors are lower than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor, and the same than the SC errors for increasing water vapor. simulated data sets obtained for a variety of global atmospheric conditions and surface emissivities. The results showed RMSE gorithm, this accuracy is only achieved for w values below 5 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 vice were, or demonstrated in the simulation study generated in Scheine and Irrelates-Mostor [18]. Although in estimation (MFER): A World Atmospheric Profile from Sannity in Information (MFER): A rest distance exercise from in 1812 measurements in required to assess the performance of the two LST algorithms, the results
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Results

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Paper Structure Conclusion

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

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 $P_i^{*,-} < P_i^{*,-}$. Because the operational cost is an increasing function of $\{P_i^{p,+}, P_i^{k,-}\}$, we obtain that

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

Therefore the optimal pair $\{P_i^{k,+}, P_i^{k,-}\}$ must satisfy that $P_i^{k,+}P_i^{k,-} = 0$, i.e., only one of $P_i^{k,+}, P_i^{k,-}$ can be non-zero.

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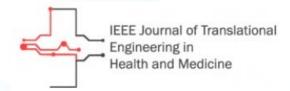


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