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Eszter Lukács
IEEE Client Services Manager
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Czech Technical University in Prague
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  - Conferences
  - Standards
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Thomson Reuters Journal Citation Reports® by Impact Factor

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<tr>
<th>Category</th>
<th>Number of Top Journals Published</th>
</tr>
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<tbody>
<tr>
<td>Electrical and Electronic Engineering</td>
<td>19 of the top 20</td>
</tr>
<tr>
<td>Telecommunications</td>
<td>18 of the top 20</td>
</tr>
<tr>
<td>Automation &amp; Control Systems</td>
<td>7 of the top 10</td>
</tr>
<tr>
<td>Computer Science, Hardware &amp; Architecture</td>
<td>6 of the top 10</td>
</tr>
<tr>
<td>Cybernetics</td>
<td>4 of the top 5</td>
</tr>
<tr>
<td>Artificial Intelligence</td>
<td>3 of the top 5</td>
</tr>
<tr>
<td>Robotics</td>
<td>2 of the top 5</td>
</tr>
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# 1 in Industrial Engineering
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# 1 in Robotics
# 1 in Telecommunications
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# 2 in Imaging Science

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- Society for Information Display (SID)
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- The Internet Society/IETF-Internet Engineering Task Force
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- Security Architecture
A Secure Framework for Protecting Customer Collaboration in Intelligent Power Grids

Hyejin Son; Sch. of Electr. Eng., Korea Univ, Seoul, South Korea; Tae-Yoon Kang; Hwangnam Kim; Jae Hyung Roh

Abstract

Much interest and research have emerged to implement and improve the smart grid. The smart grid is the power infrastructure whose intellectual capability is enhanced with communication networks. In addition to communication networks, a bidirectional flow of both power and information enables the customers to actively participate in the whole procedure of power generation, transport, distribution, and consumption. In this paper, we propose the concept of collaborative customer to combine two or more customers into a single customer community, under which the customers collaborate on a power-sharing to reduce their expenditure for electricity power. However, the collaboration can be easily disrupted in the presence of malicious or selfish behaviors. In order to address the security issues, we present a brand-new security scheme, called the voucher scheme, for securely trading the right on power usage among members of a collaborative customer. When the voucher scheme is enabled, a power customer who wants to use extra power issues a certificate, called voucher, that is immune to various security attacks, to a power customer who is willing to transfer its right on power usage to the former customer, so that both the customers can have monetary benefits. We formally define the security model for the voucher scheme and prove...
References & Citing Documents

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4. Taeyoon Kang; Hwangnam Kim "Preserving privacy with anonymity for customer collaboration in smart grid", *Communications (APCC), 2012 18th Asia-Pacific Conference on*. On page(s): 724 - 729
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The design of information security protection framework to support Smart Grid

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  - Description: All versions pertinent to my project

- **kent**
  - Description: It is for a student

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  - Description: Anything starting out with the word stem: cyber (cybersecurity, cyber security, cyber warfare, cyber warfare)

- **NEC**
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• A **journal article** is a fully developed presentation of your work and its final findings
  • Original research results presented
  • Clear conclusions are made and supported by the data

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  • Can present preliminary results or highlight recent work
  • Gain informal feedback to use in your research

• Conference articles are typically shorter than journal articles, with less detail and fewer references
IEEE journals are cited 3 times more often in patent applications than other leading publisher’s journals

**PRO**

- IEEE journals are cited 3 times more often in patent applications than other leading publisher’s journals

**CON**

- A high percentage of articles submitted to any professional publication are rejected

IEEE Conference proceedings are recognized worldwide as the most vital collection of consolidated published articles in EE, computer science, related fields

**IEEE Conferences**

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- Review the journal listings
  - Who reads it
  - What they publish
  - What kinds of articles they want

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  - Find a good match for your research subject matter
  - Ensure you are available to present
Audience
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2. Or do you want to make a difference in your technical community?
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- Whoever solves a new and important problem in their field
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Audience
Scientific research publishing

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Audience

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- Content that is appropriate, in scope and level, for the journal
- Clearly written original material that addresses a new and important problem
- Valid methods and rationale
- Conclusions that make sense
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject
Audience

Why IEEE editors and reviewers reject papers

- The content is **not a good fit for the publication**
- There are serious scientific flaws:
  - Inconclusive results or incorrect interpretation
  - Fraudulent research
- It is poorly written
- It does **not address a big enough problem** or advance the scientific field
- The work **was previously published**
- The **quality is not good enough for the journal**
- Reviewers have misunderstood the article

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Structure
Paper Structure

Elements of a manuscript

- Title
- Abstract
- Keywords
- Introduction
- Methodology
- Results/Discussions/Findings
- Conclusion
- References

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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

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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
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 it
How the results were useful, important & move the field forward
Why they’re useful & important & move the field forward

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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.

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.
Paper Structure

Keywords

Use in the Title and Abstract for enhanced Search Engine Optimization

Appropriate

Logical

Applicable

Specific

Searchable

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Paper Structure

Introduction

- A description of the problem you researched
- It should move step by step through:
  - 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
  - Written in the present tense

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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:
  
  **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

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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
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
Support and validate the hypothesis your research proves, disproves or resolves.

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**Ethics**

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Ethics
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Ethics

Ethical publishing

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- Author must submit original work that:
  - Has not appeared elsewhere for publication
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  - Indicates how it differs from the previously published work
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<td>Began publishing in 2012</td>
<td>Larger potential audience with traditional focus on specific areas</td>
</tr>
<tr>
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<td>Already an option</td>
<td>Gives authors the benefit of multiple journals w/established Impact Factors; publish in print and online</td>
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