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Eszter Lukács
IEEE Client Services Manager
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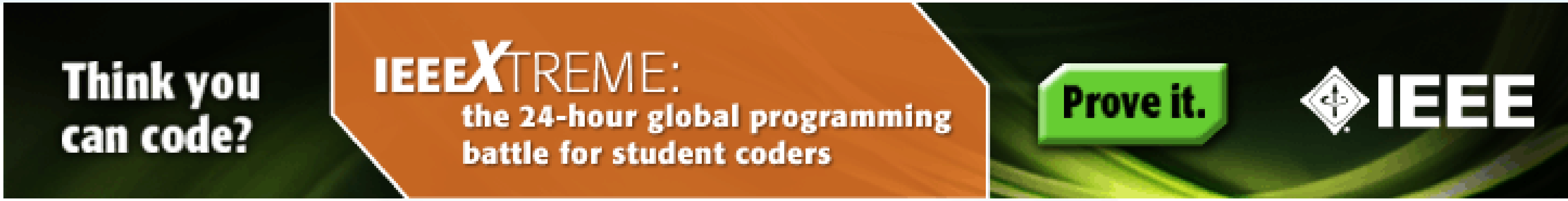

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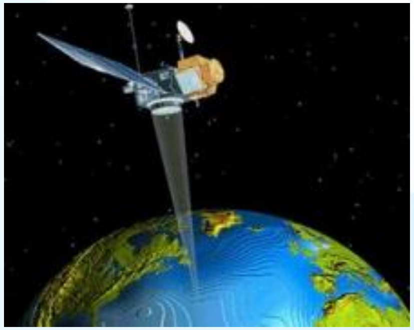

- *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE-RITA)*
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- IEEE Transactions on Control of Network Systems
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- IEEE Internet of Things Journal
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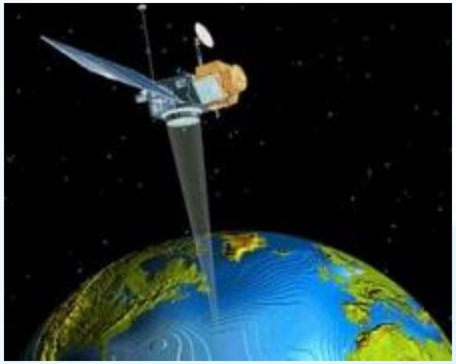
- IEEE Power Electronics Magazine



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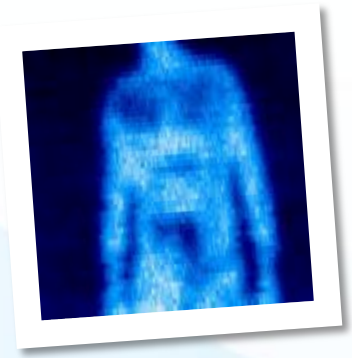

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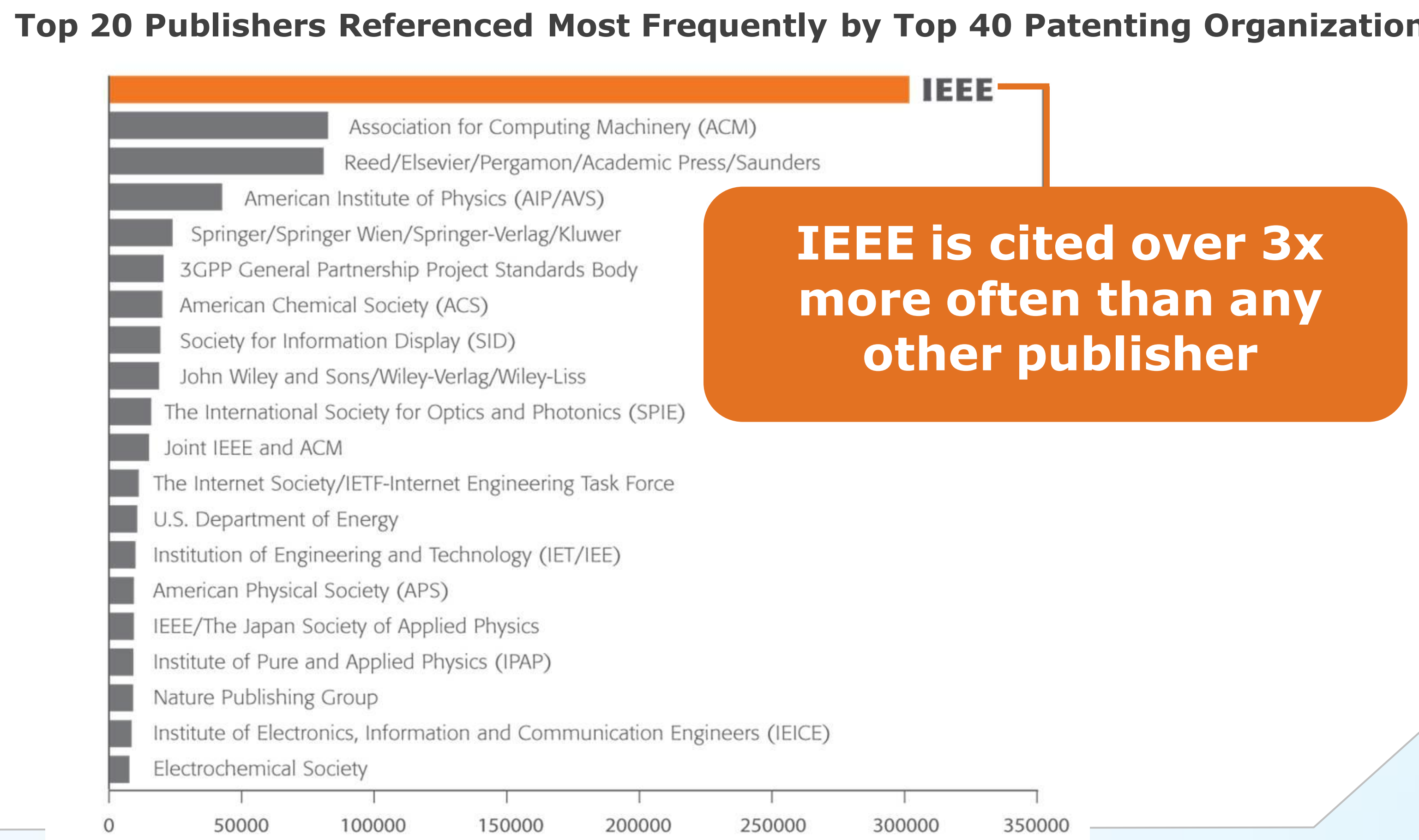

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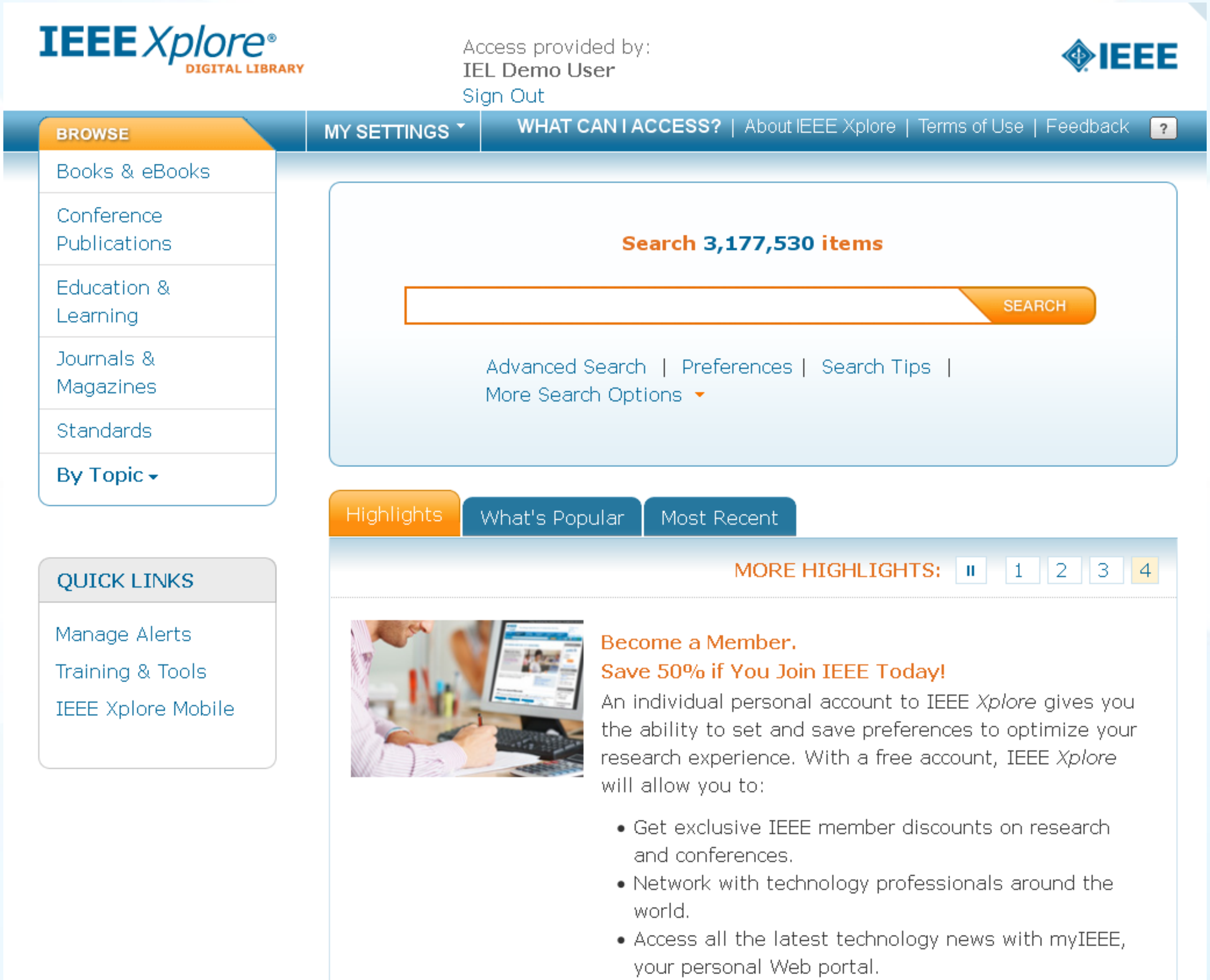

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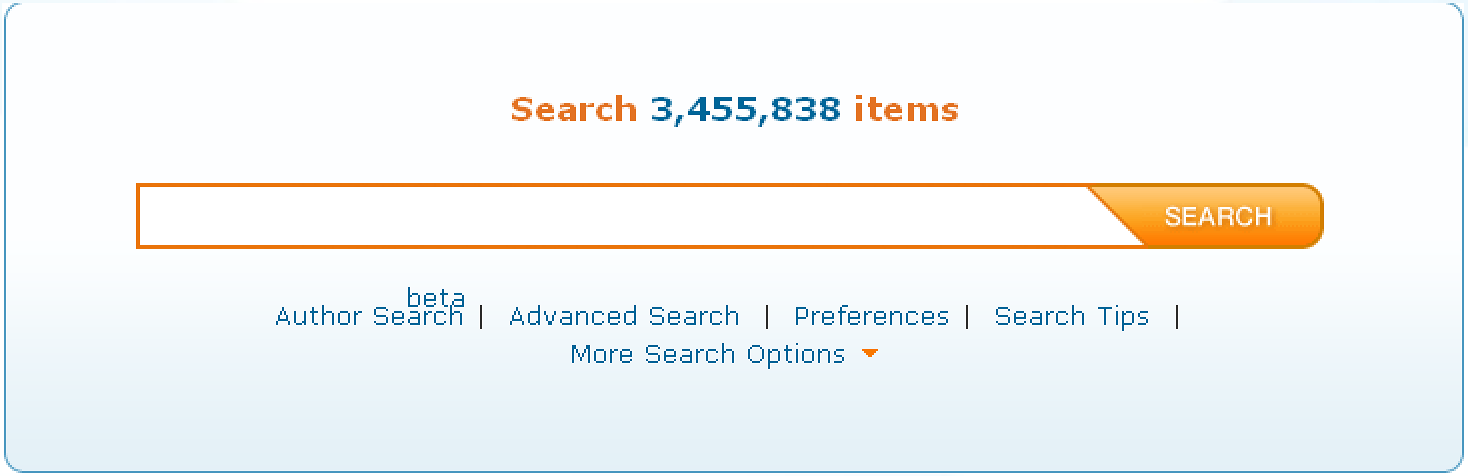

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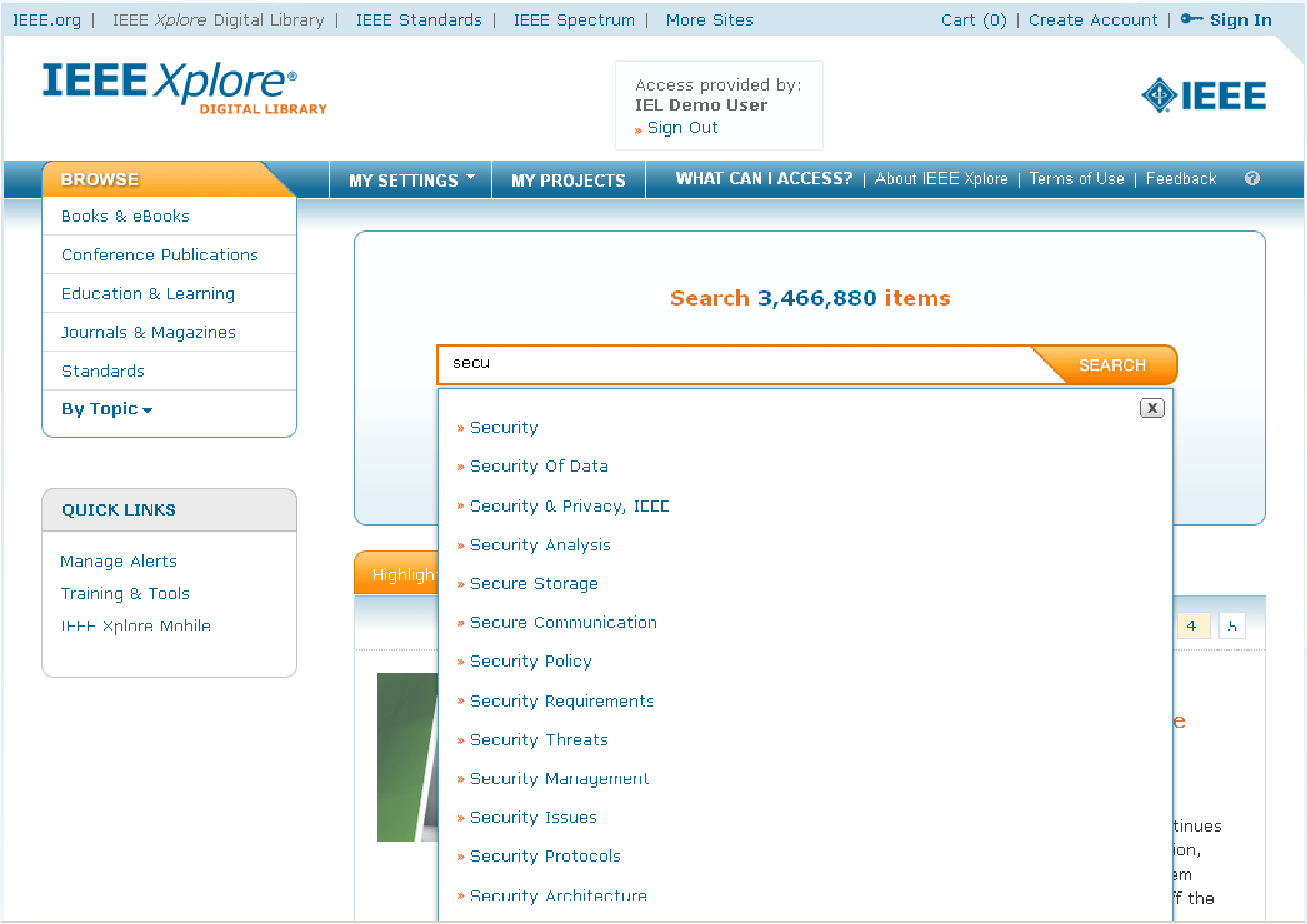
- Use quotes (“”) for an exact phrase
- Searching metadata only
- Automatic stemming
- Case insensitive
- Type-ahead (aka auto suggest) functionality

Type ahead from Basic Search



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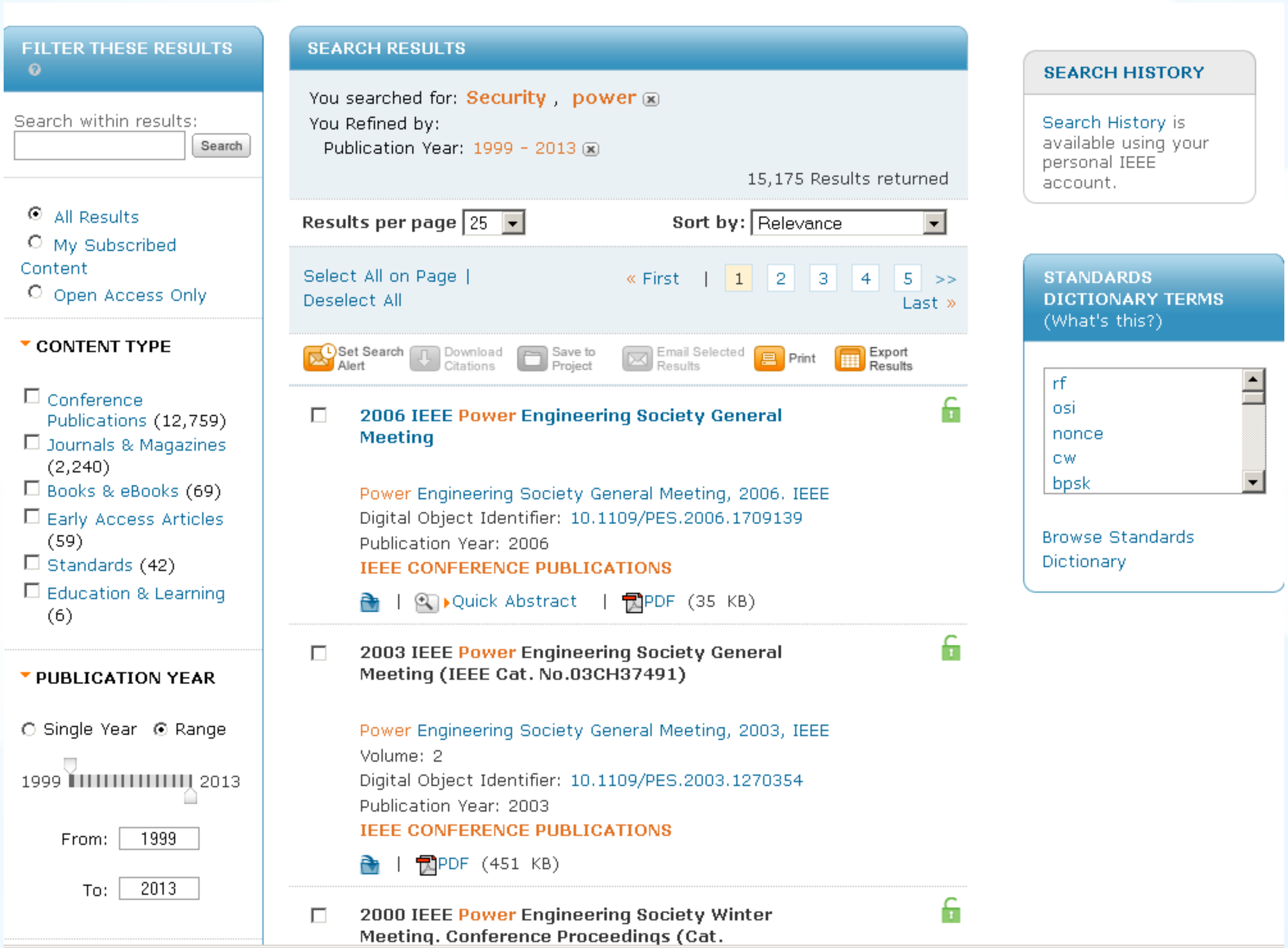

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A Secure Framework for Protecting Customer Collaboration in Intelligent Power Grids

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4 Author(s)

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

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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 issue, 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

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References & Citing Documents

4 Author(s)

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

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1. Mokhtari, G.; Zare, F.; Nourbakhsh, G.; Ghosh, A. "A new DER coordination in LV network based on the concept of distributed control", *Power Electronics for Distributed Generation Systems (PEDG), 2012 3rd IEEE International Symposium on,* On page(s): 1 - 8
   Abstract | Full Text: PDF (1825KB)
2. Hong Liu; Huansheng Ning; Yan Zhang; Guizani, M. "Battery Status-aware Authentication Scheme for V2G Networks in Smart Grid", *Smart Grid, IEEE Transactions on,* On page(s): 99 - 110 Volume: 4, Issue: 1, March 2013
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3. Hong Liu; Huansheng Ning; Yan Zhang; Yang, L.T. "Aggregated-Proofs Based Privacy-Preserving Authentication for V2G Networks in the Smart Grid", *Smart Grid, IEEE Transactions on,* On page(s): 1722 - 1733 Volume: 3, Issue: 4, Dec. 2012
   Abstract | Full Text: PDF (3894KB)
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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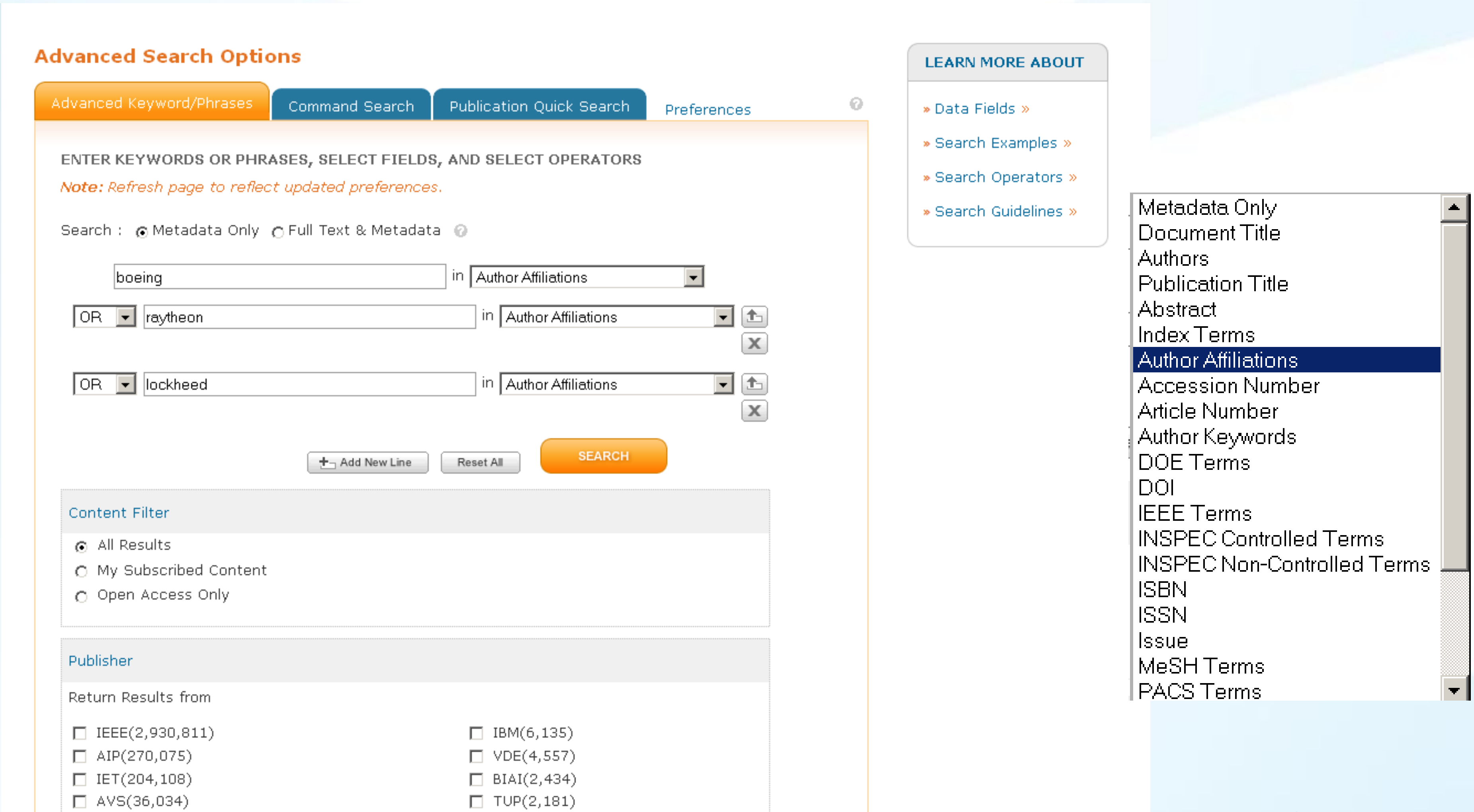

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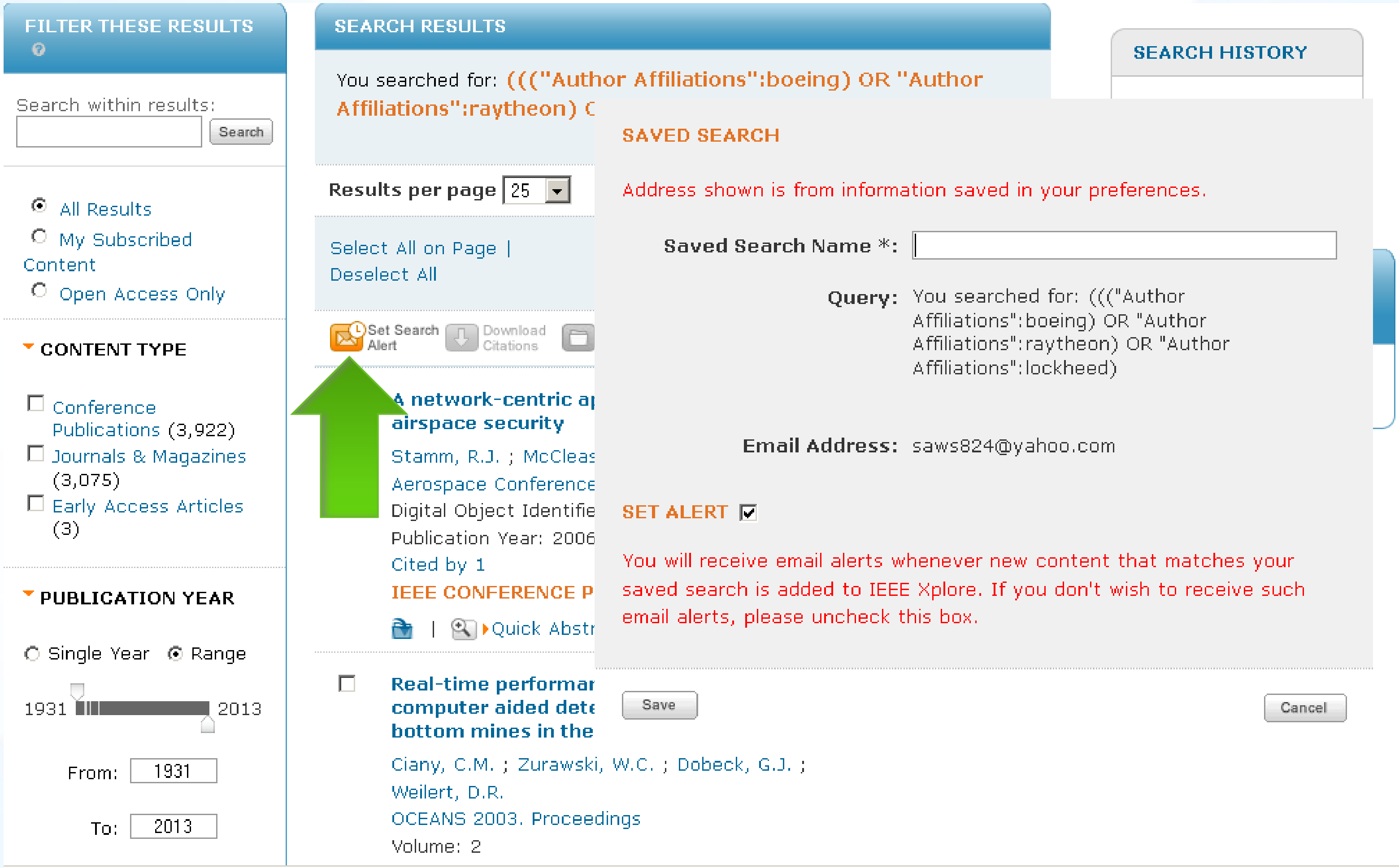
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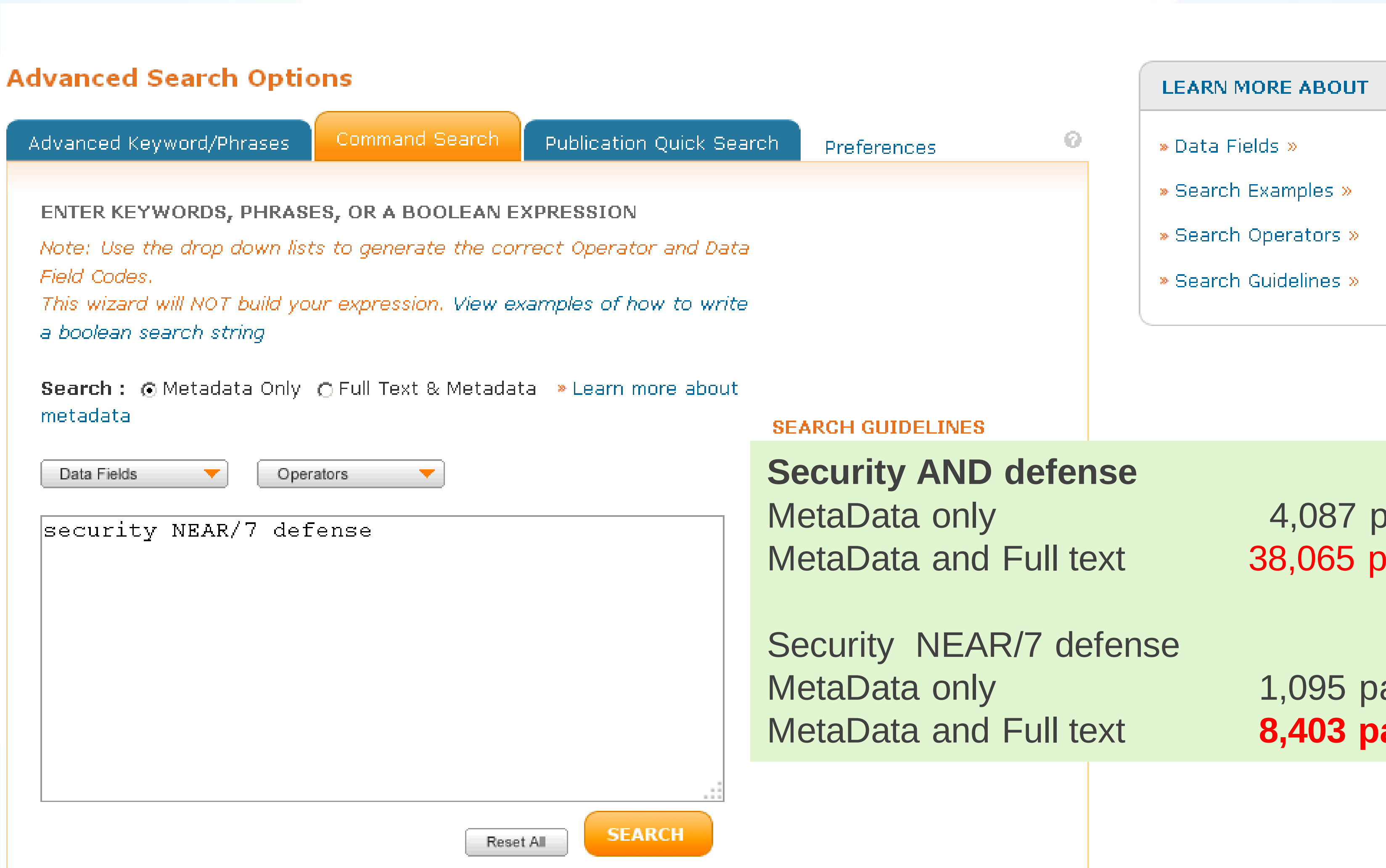

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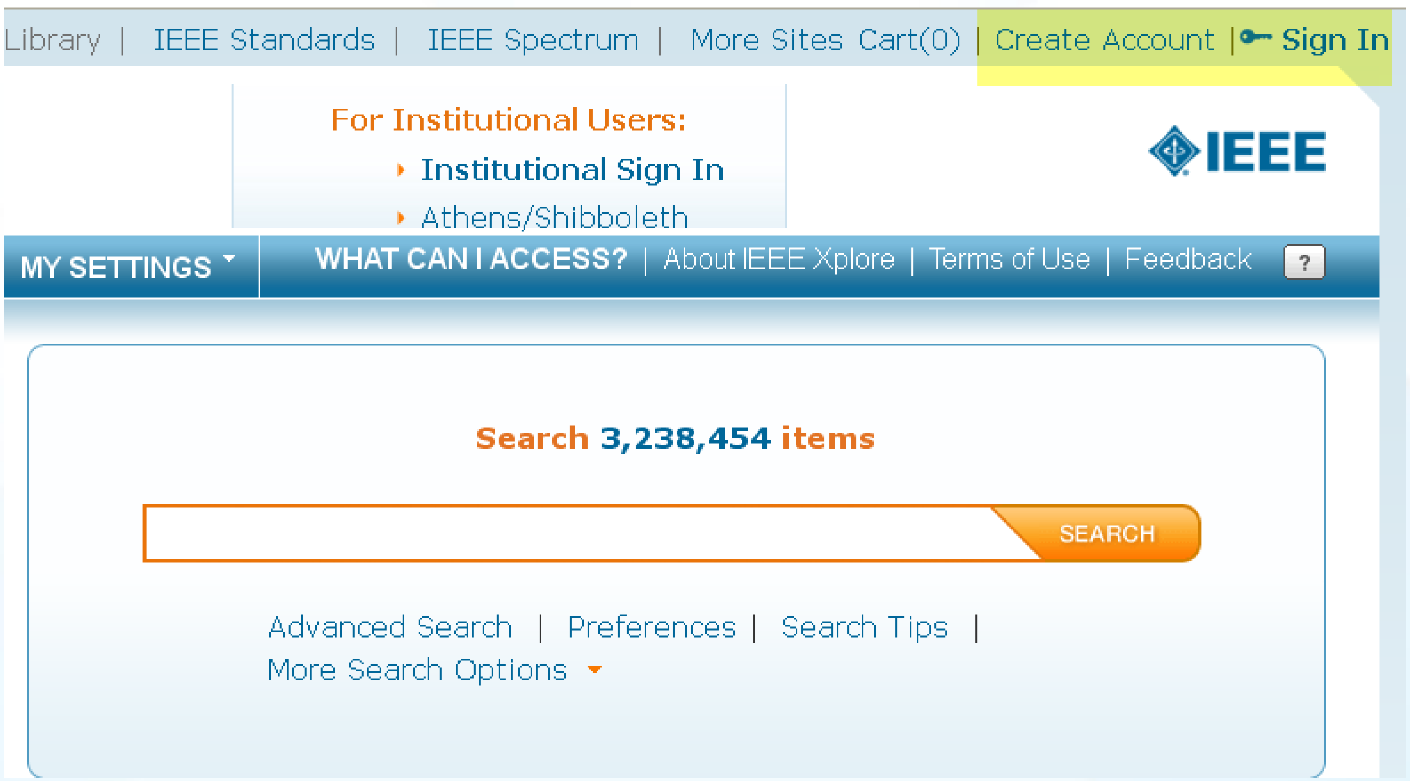

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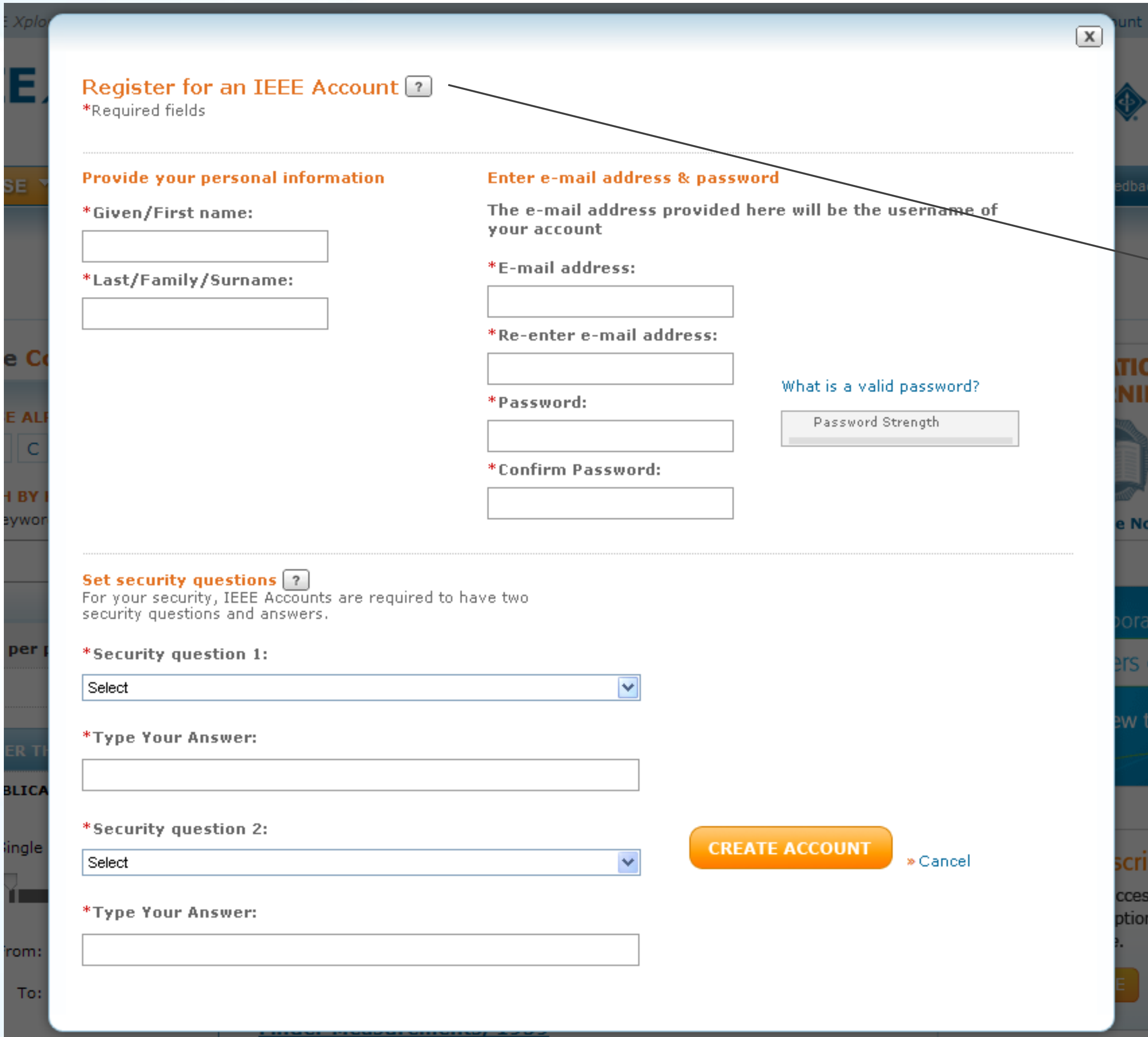

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Add another e-mail address

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Add or Confirm Password

Enter your current password or create a new one.

***Password:**

••••••••••••••••••

What is a valid password?

Great password!

***Confirm Password:**

••••••••••••••••••

Set security questions

***Security question 1:**

What are the last 4 digits of your Social Security Nu

***Type your answer:**

1234

***Security question 2:**

What city were you born in?

***Type Your Answer:**

piscataway

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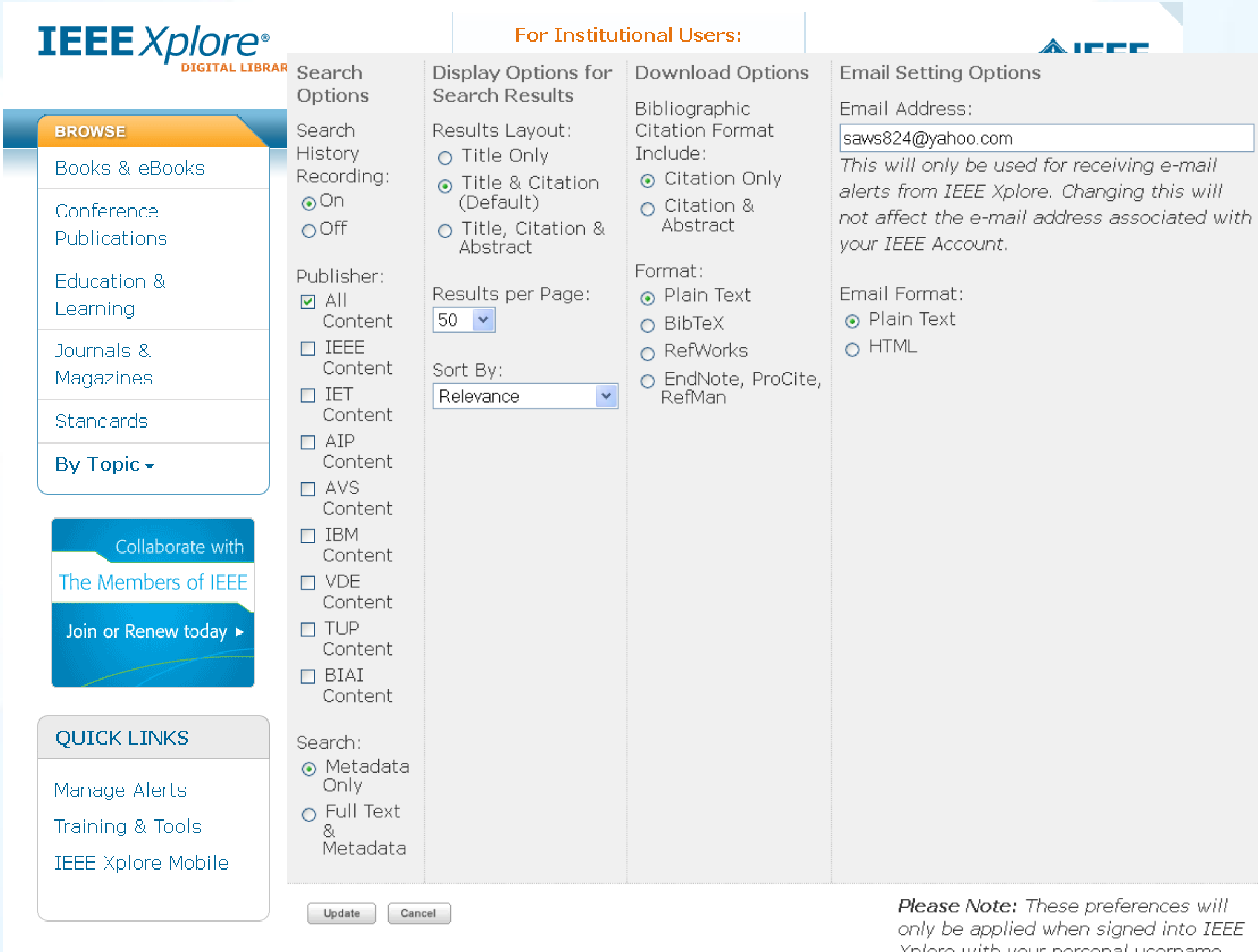

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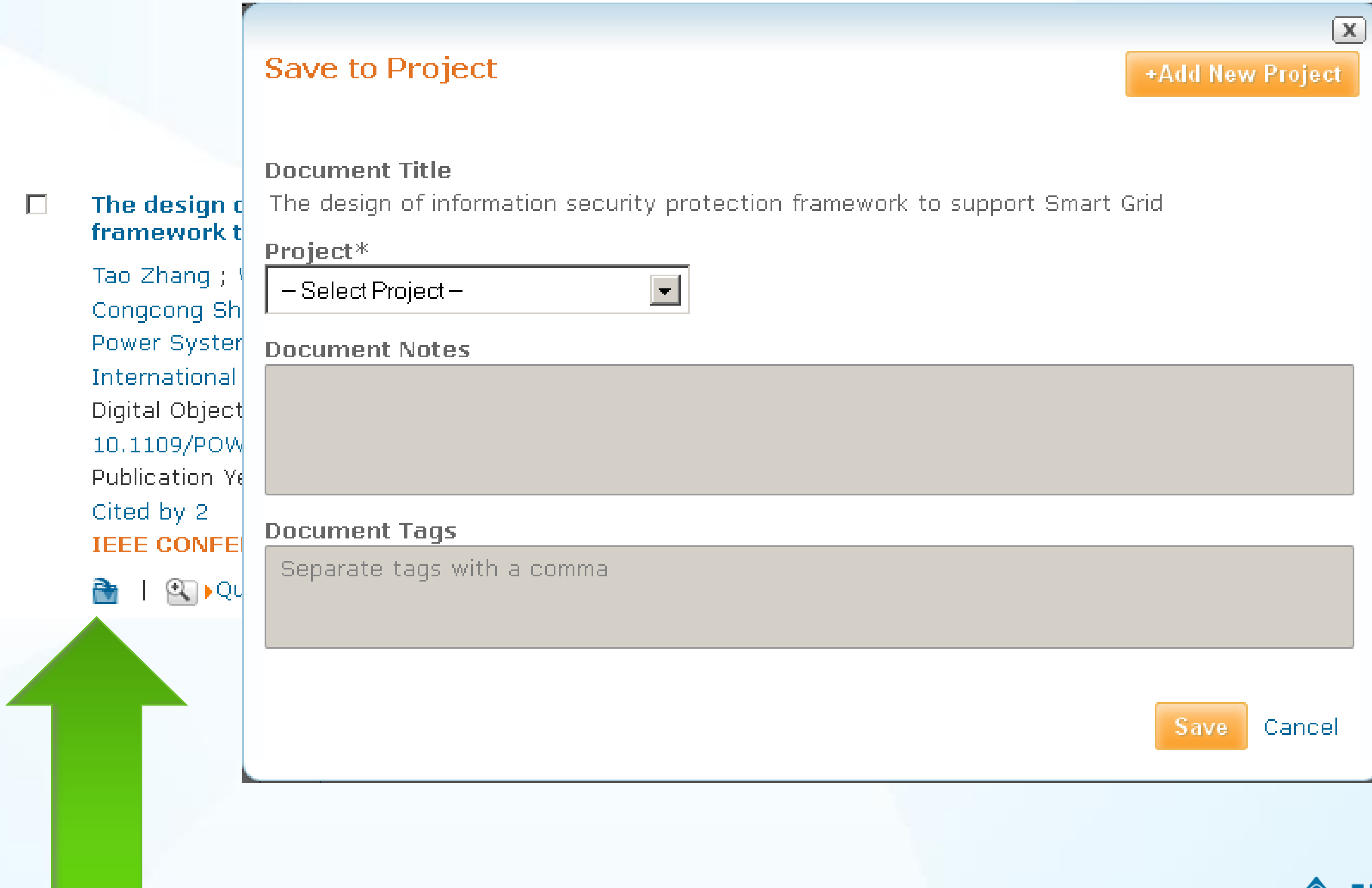

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  - What they publish
  - What kinds of articles they want

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  - Ensure you are available to present

Audience

Audience

Basic Questions

1. Are you writing this paper for the sake of writing a paper?

2. Or do you want to make a difference in your technical community?

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- Who writes scientific papers?
  - Whoever solves a new and important problem in their field
  - Engineers, scientists, educators and researchers from:
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    - ➢ Academia
    - ➢ Government
  - Students typically write and present conference papers before submitting journal articles

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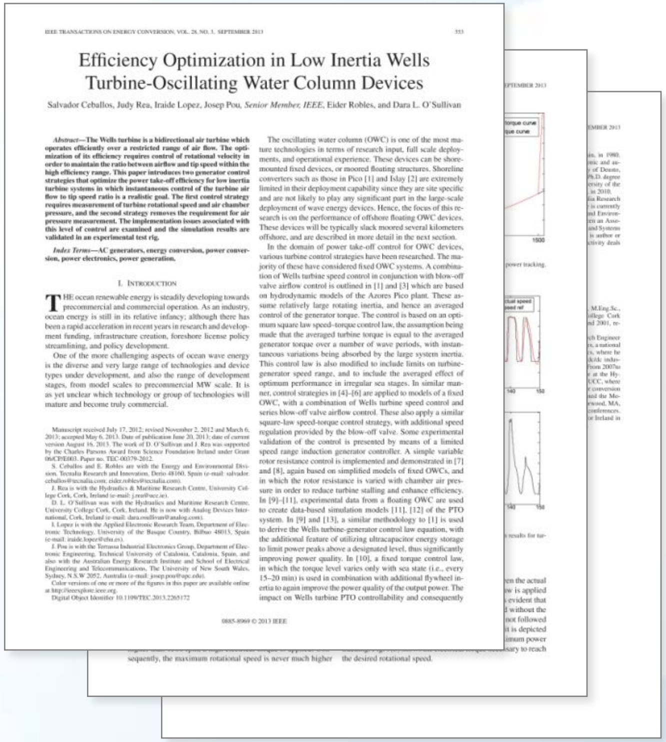

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- Answer the reader's question: *"Is this article relevant to me?"*
- Grab the reader's attention
- Describe the content of a paper using the fewest possible words
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  - Uses keywords
  - Avoids jargon

Good Title

VS.

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Paper Structure

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vs

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Paper Structure

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- No more than 250 words; written in the past tense
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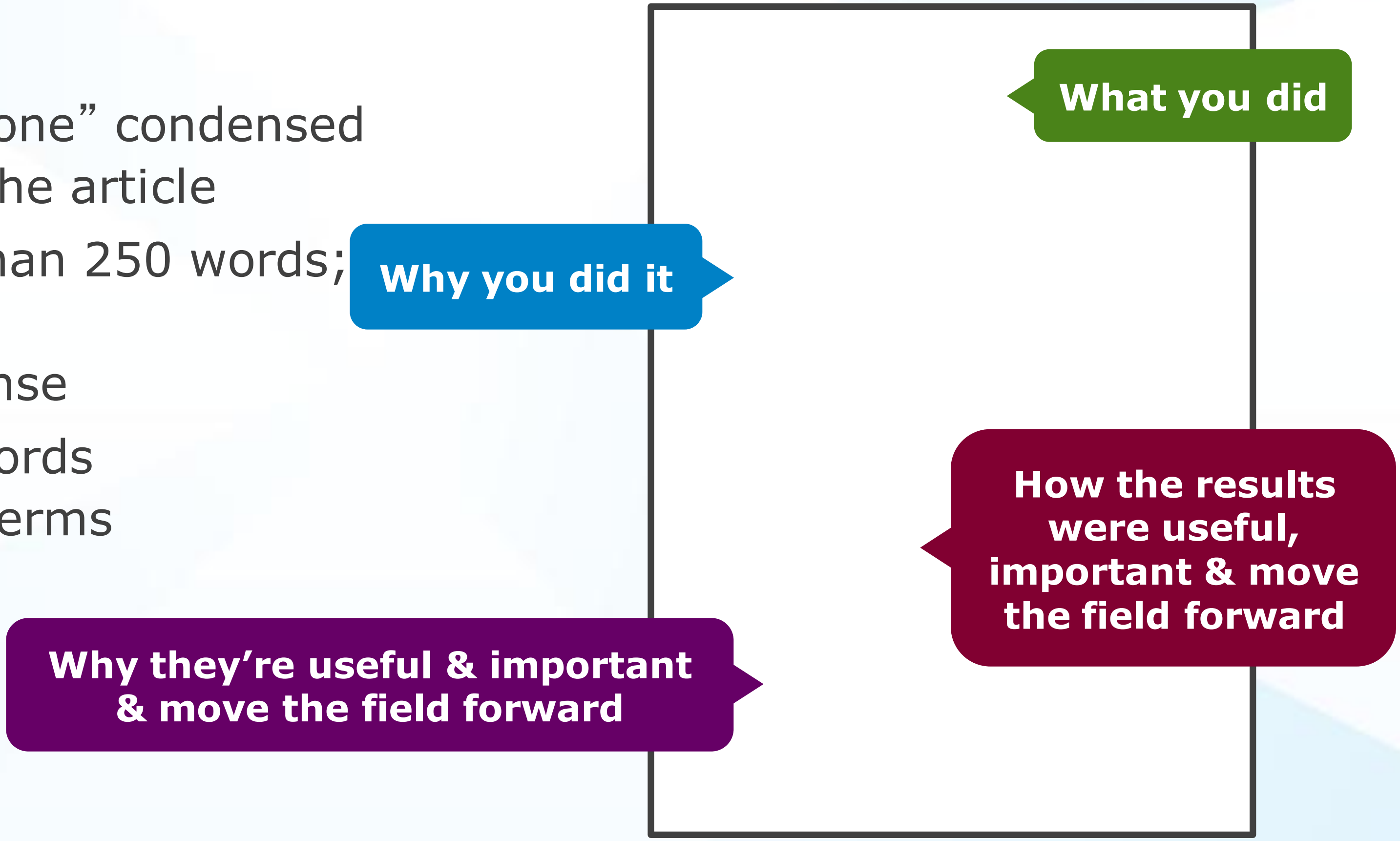

Good vs. Bad Abstract

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.

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No actual results, only describes the organization of the paper

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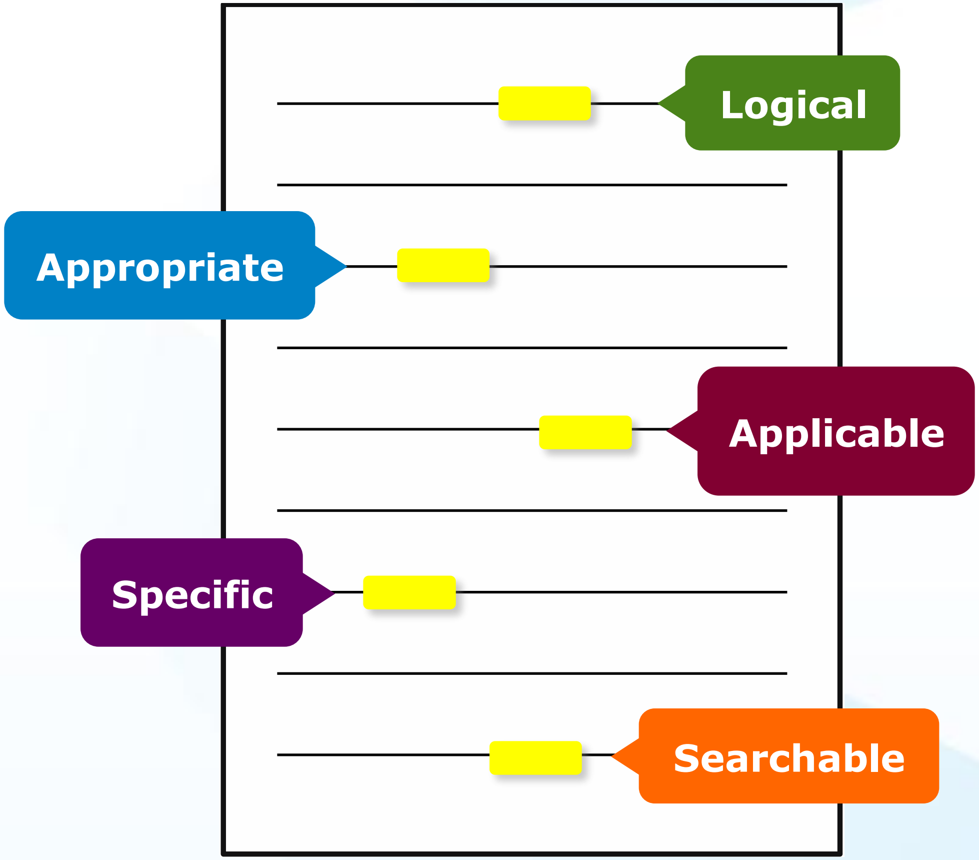

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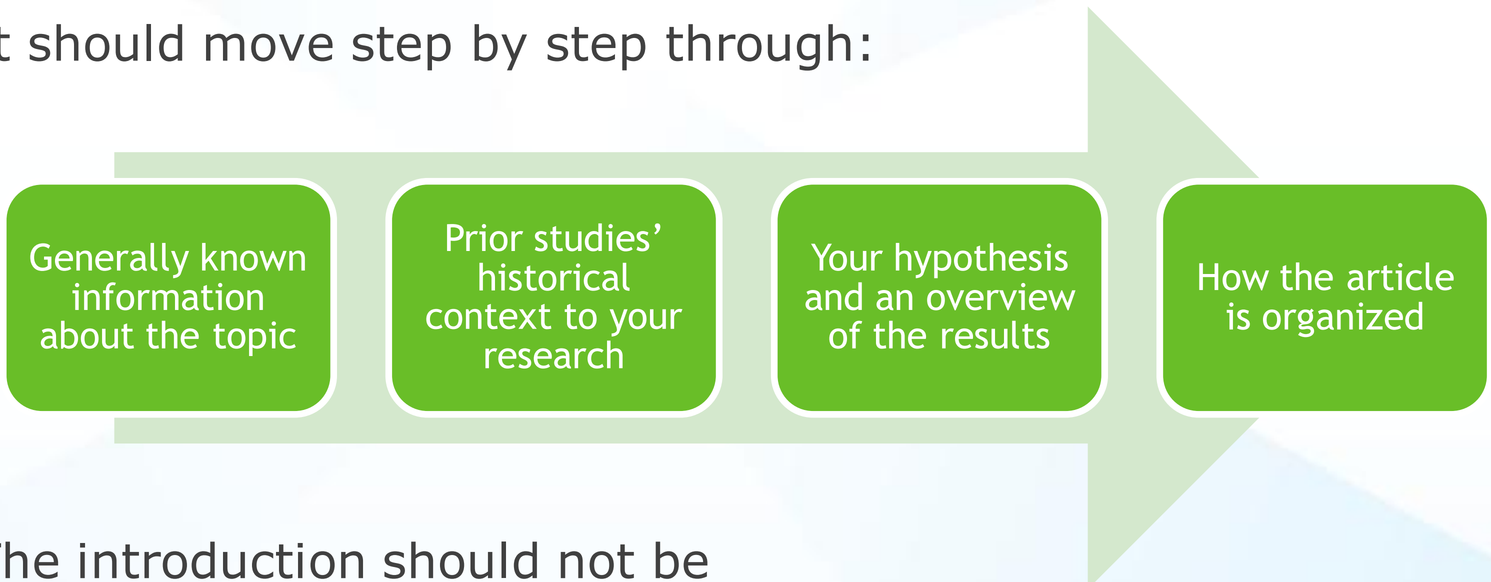

- The introduction should not be
  - Too broad or vague
  - More then 2 pages
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- Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis
- Use illustrations to clarify ideas, support conclusions:

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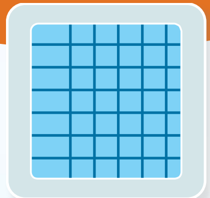
Present representative data or when exact values are important to show



Figures
Quickly show ideas/conclusions that would require detailed explanations

Graphs
Show relationships between data points or trends in data

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

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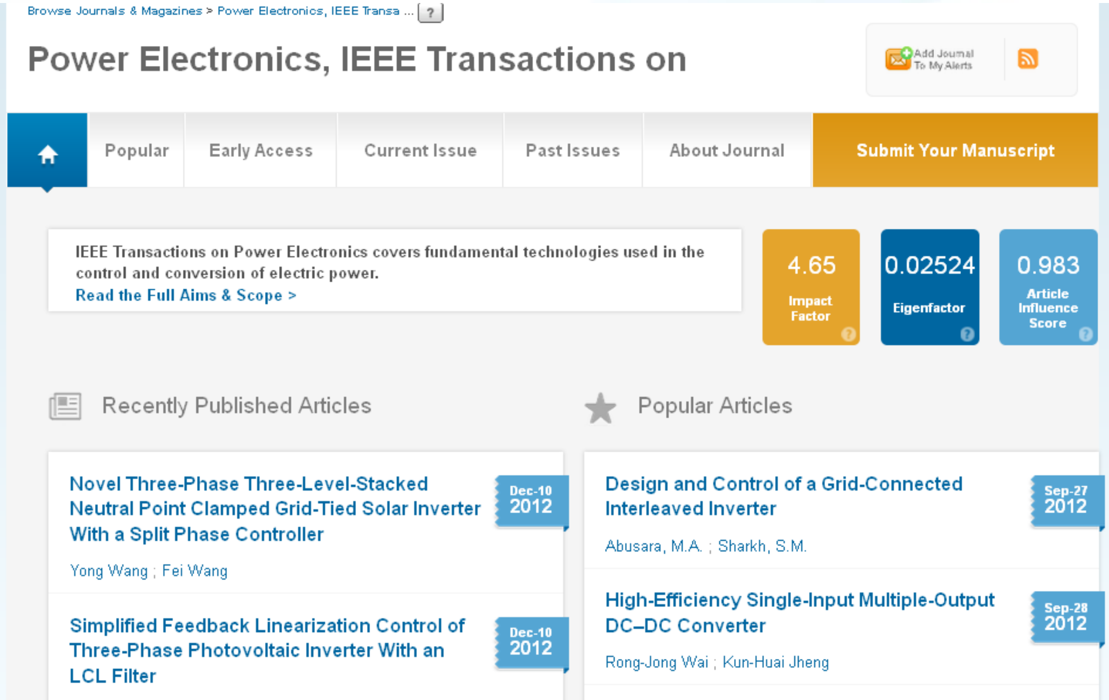

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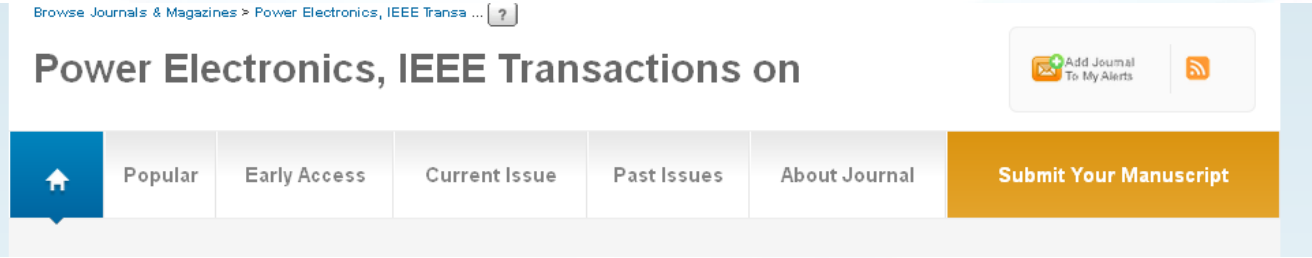

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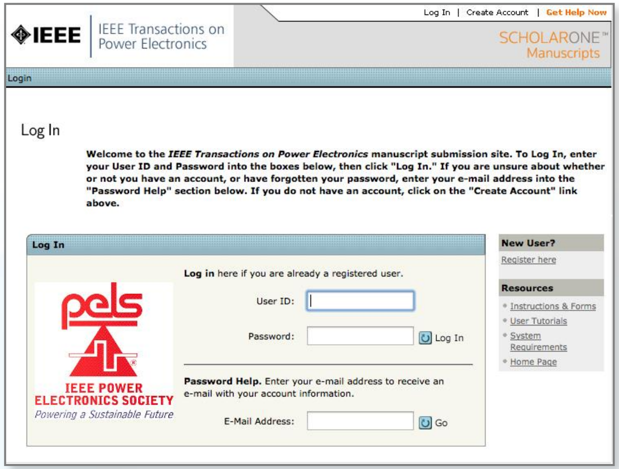

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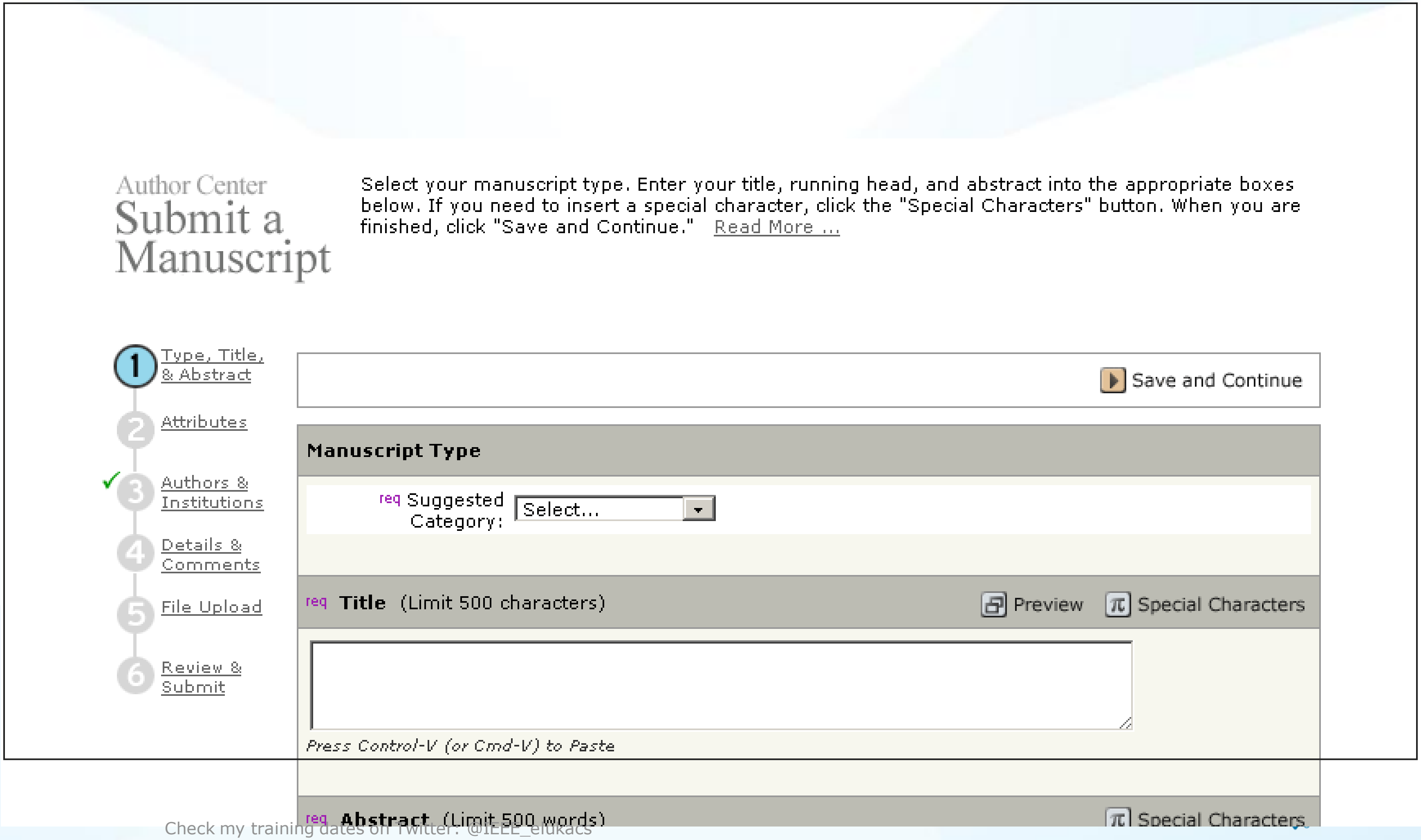

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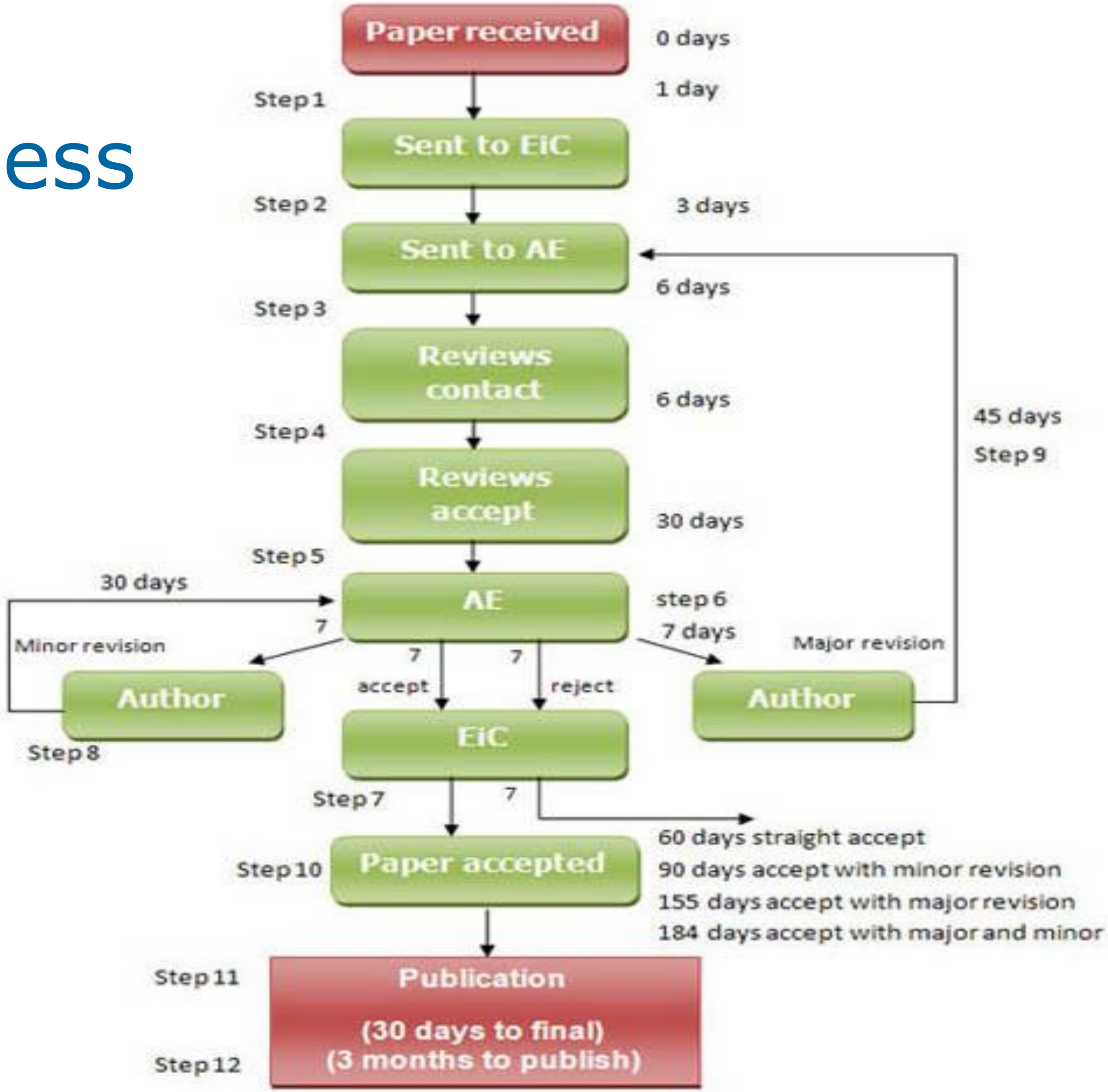

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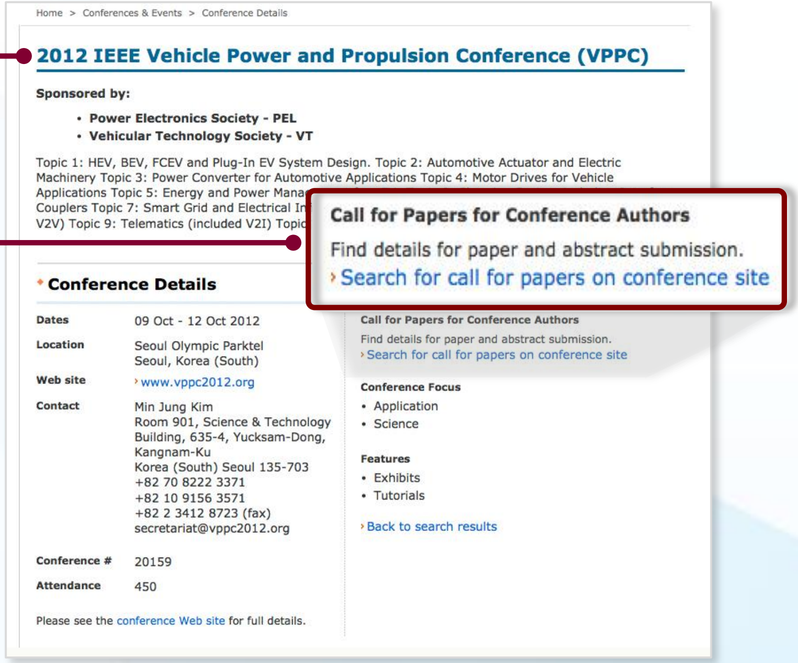

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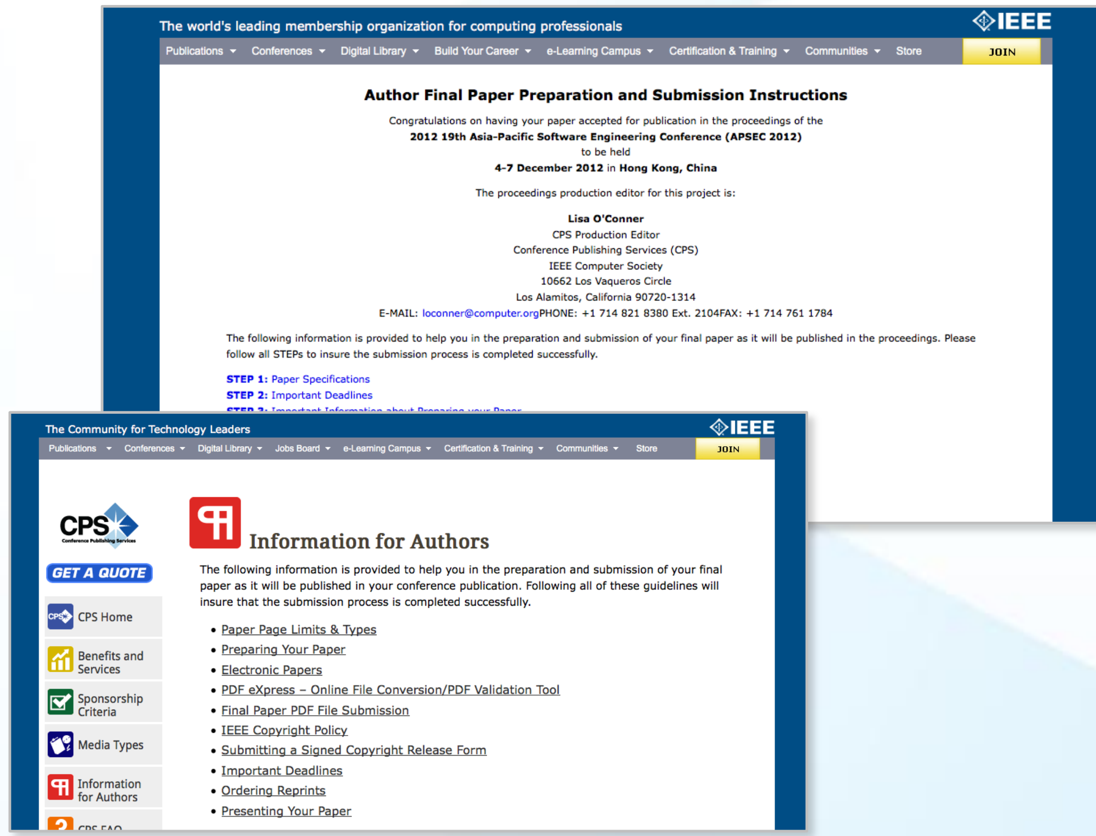

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