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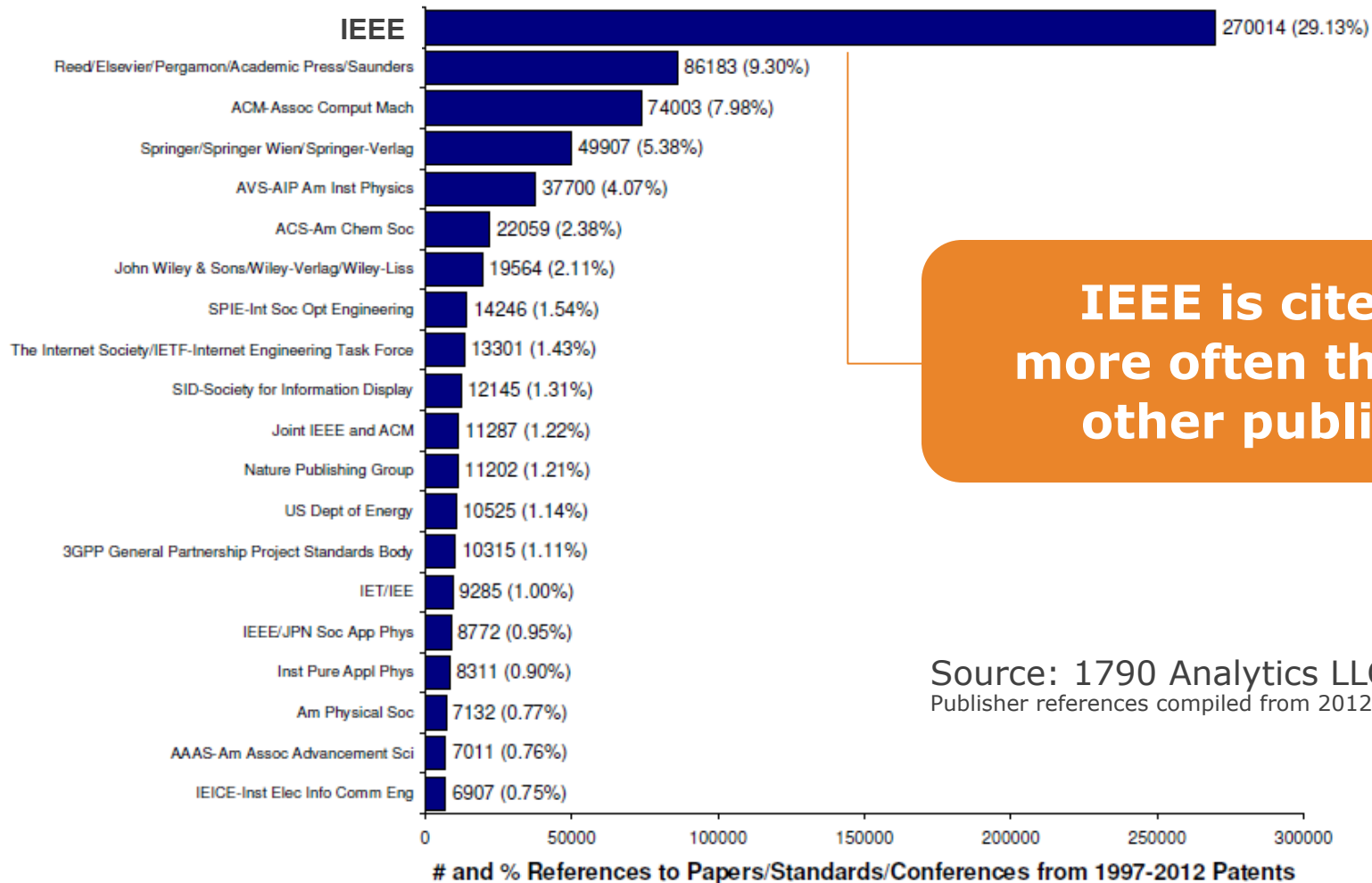


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Ultrasonics Symposium, 1999. Proceedings. 1999 IEEE
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Wang, Q. ; McCalley, J.D. ; Zheng, T. ; Litvinov, E.
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Fang Lan; Wang Chunlei; Ma Guoqing;
Computer Engineering and Technology (ICCET), 2010 2nd
International Conference on

Volume: 1 Page(s): V1-226 - V1-231

Digital Object Identifier: 10.1109/ICCET.2010.5486194

Abstract:

Network security situation awareness provides the unique high level security view based upon the security alert events. But the complexities and diversities of security alert data on modern networks make such analysis extremely difficult. In this paper, we analyze the existing problems of



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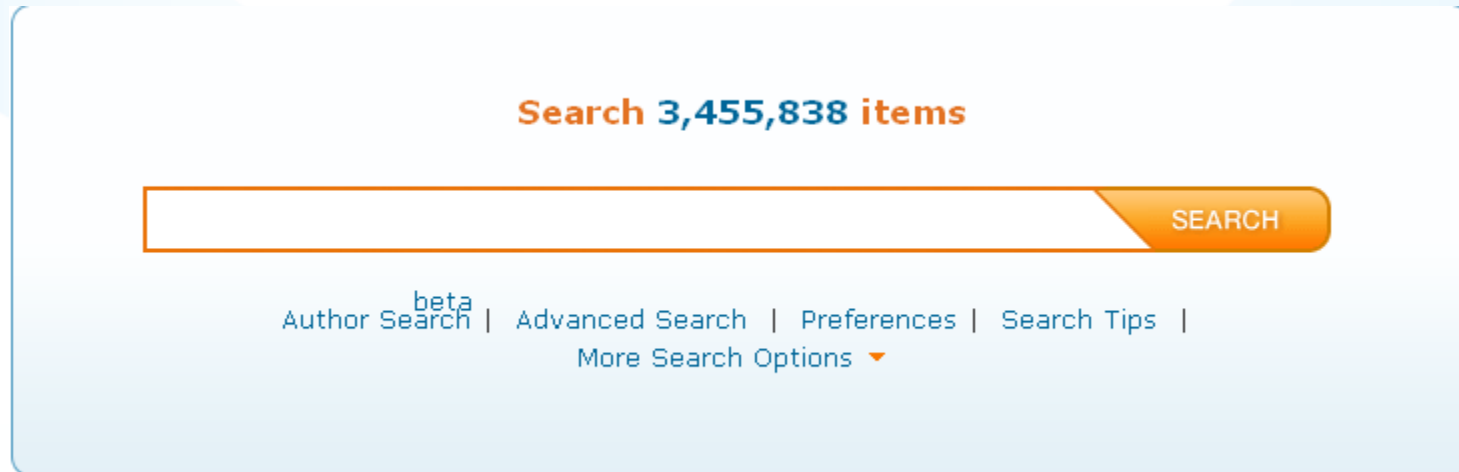


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2006 IEEE **Power Engineering Society General Meeting**

Power Engineering Society General Meeting, 2006. IEEE
Digital Object Identifier: 10.1109/PES.2006.1709139
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2003 IEEE **Power Engineering Society General Meeting (IEEE Cat. No.03CH37491)**

Power Engineering Society General Meeting, 2003, IEEE
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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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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
[Abstract](#) | Full Text: [PDF](#) (5064KB)
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
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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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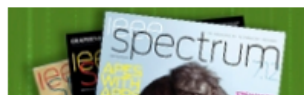
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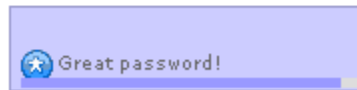
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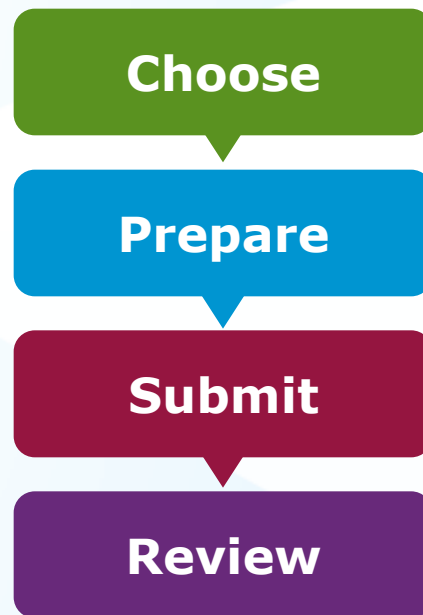
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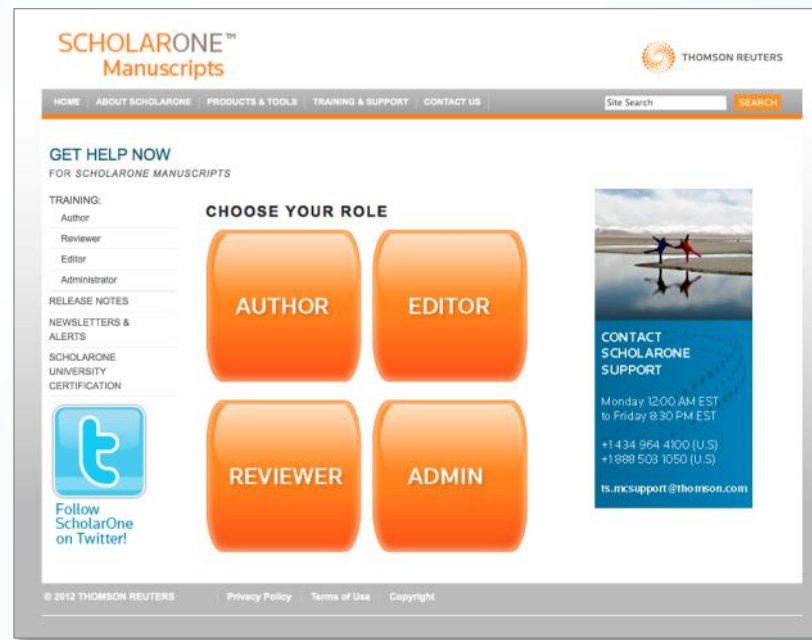
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