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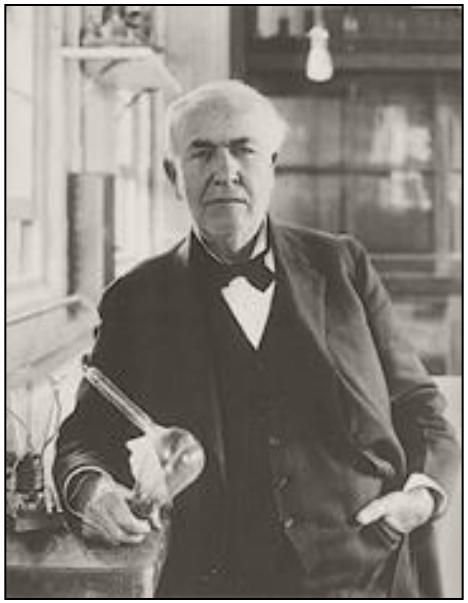

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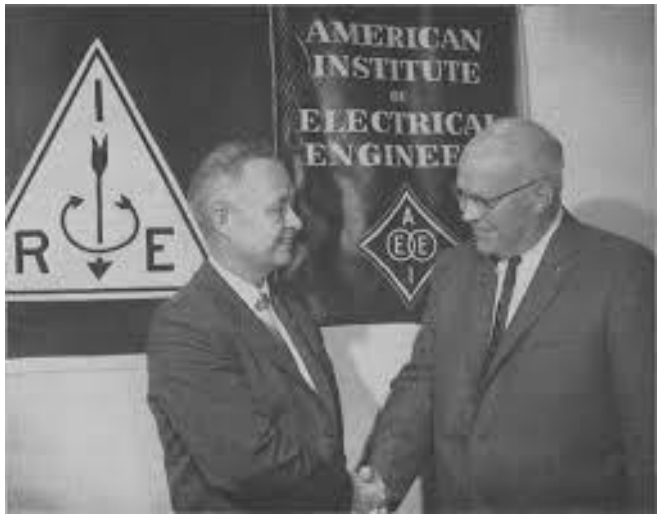

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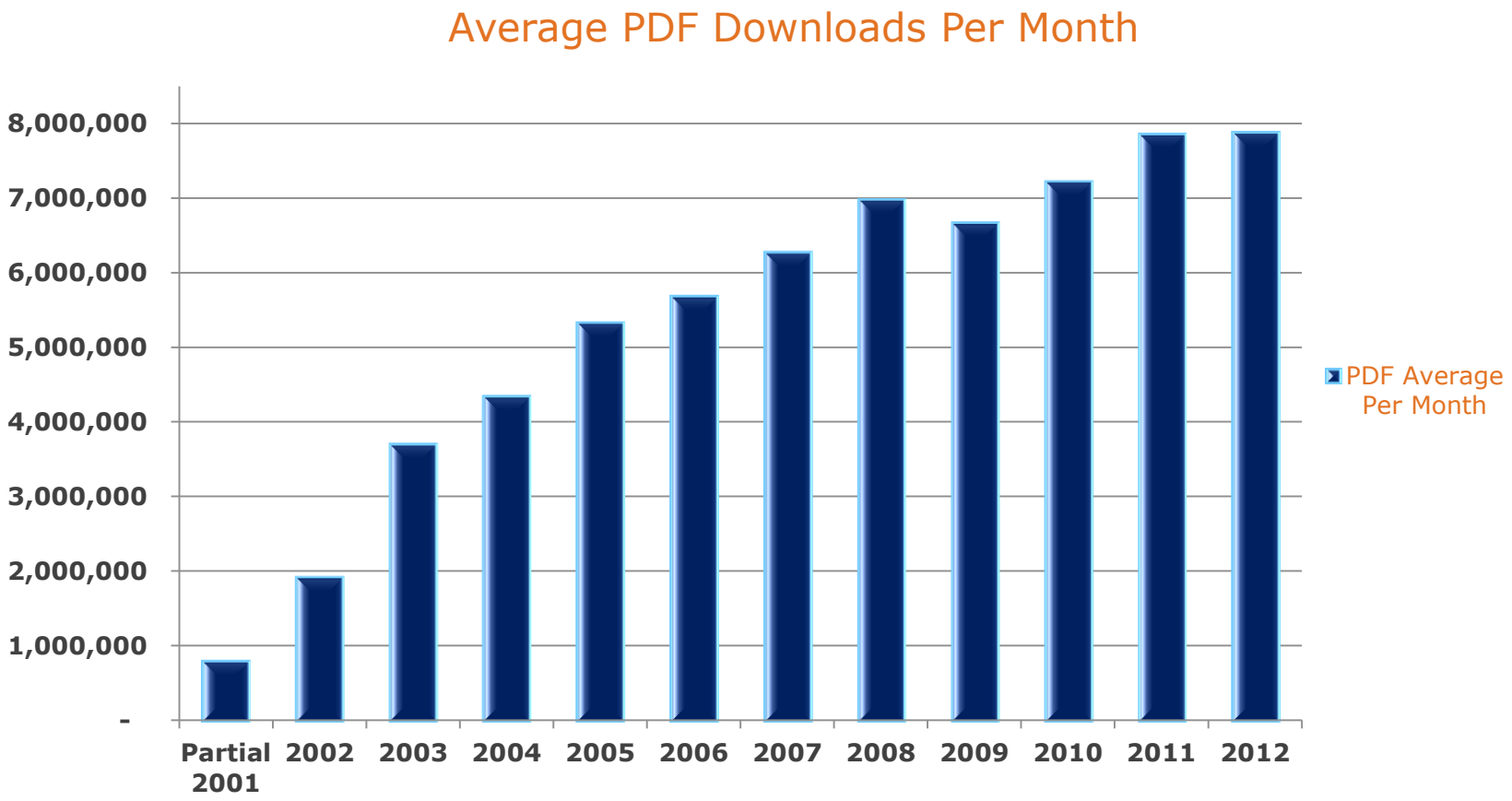

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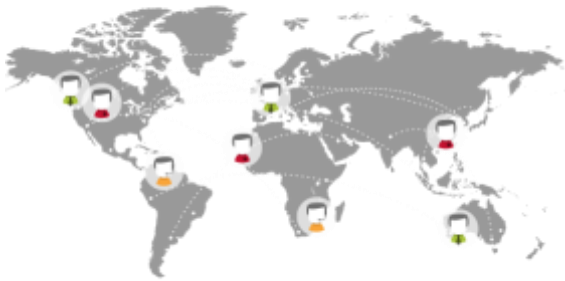

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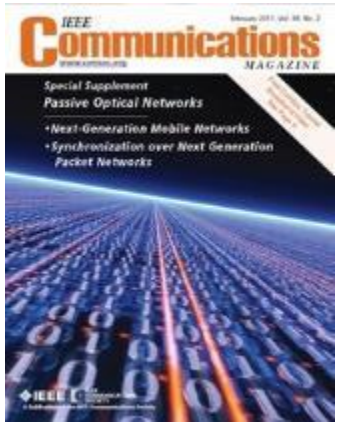







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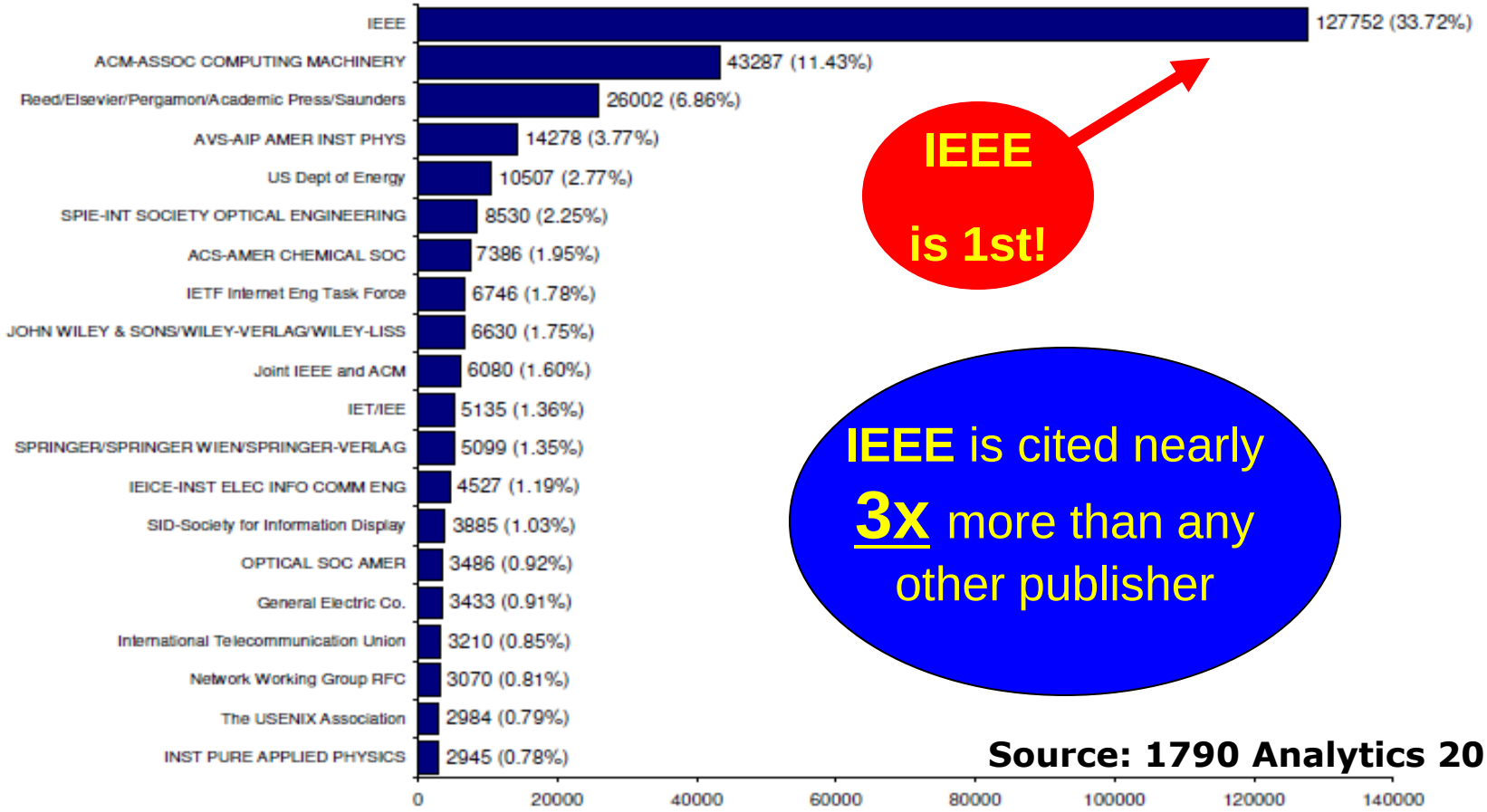

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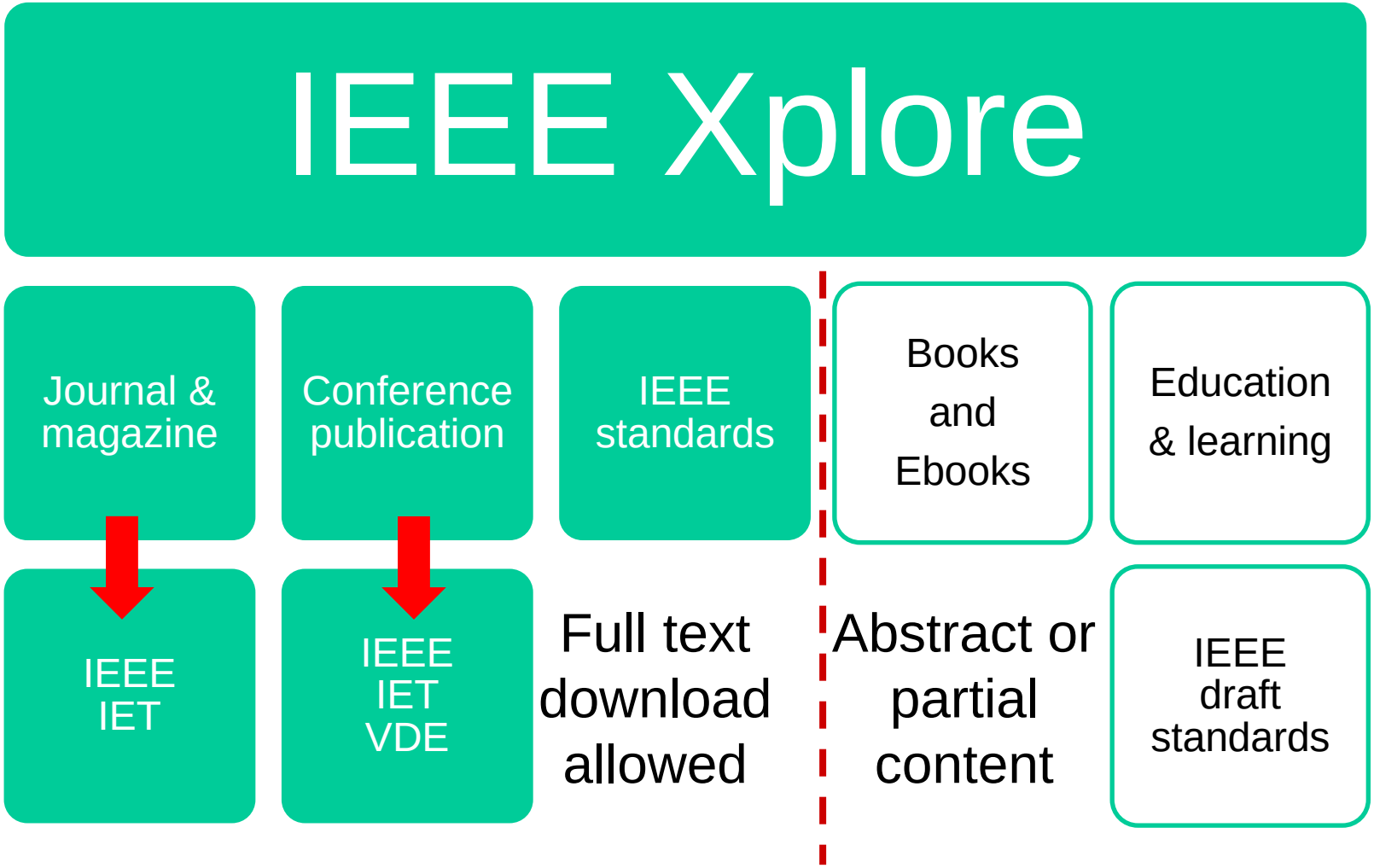

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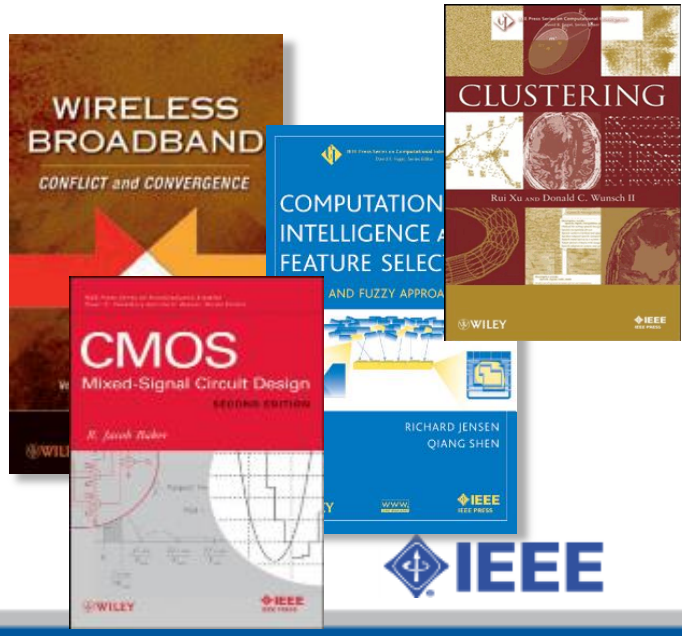

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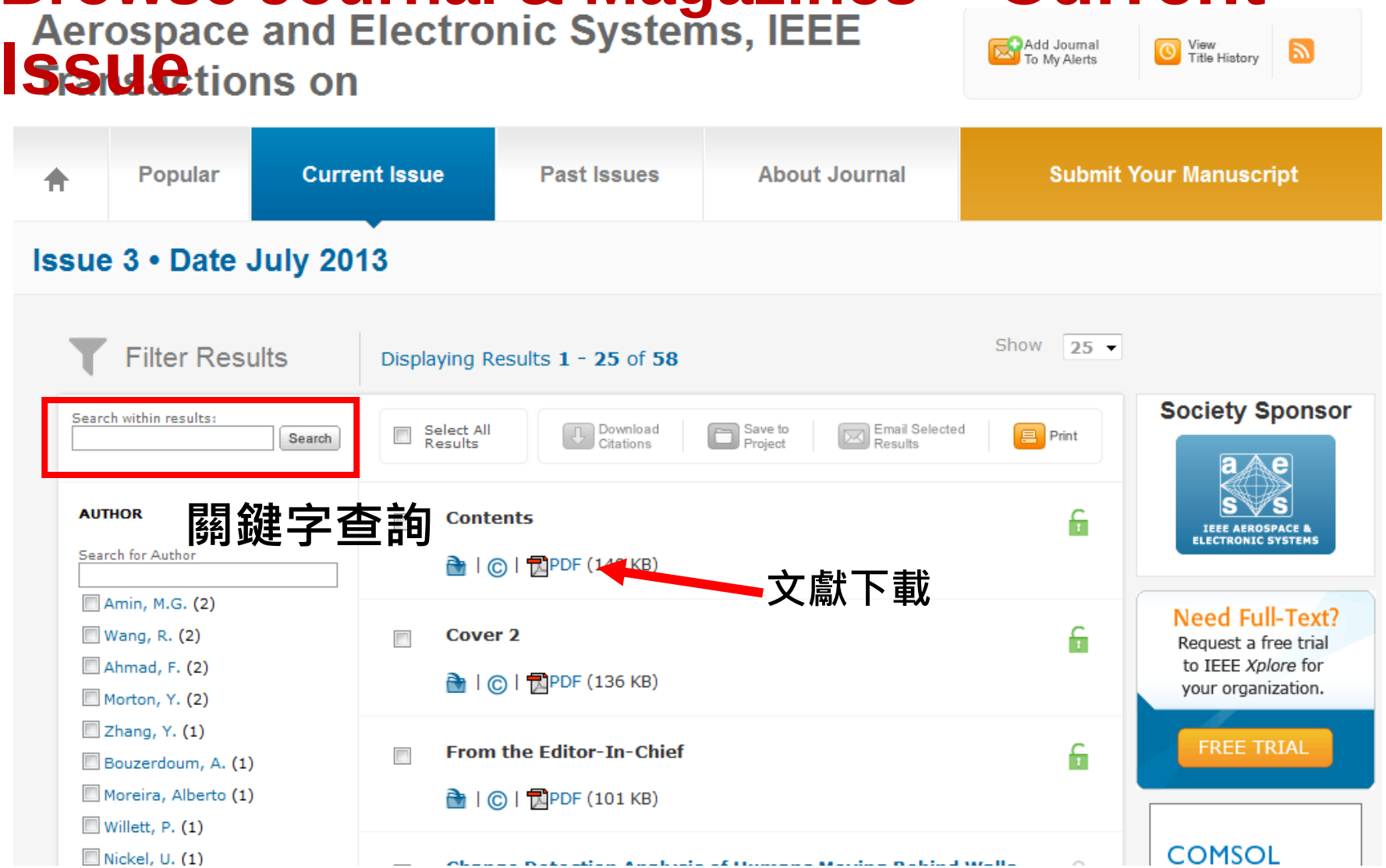

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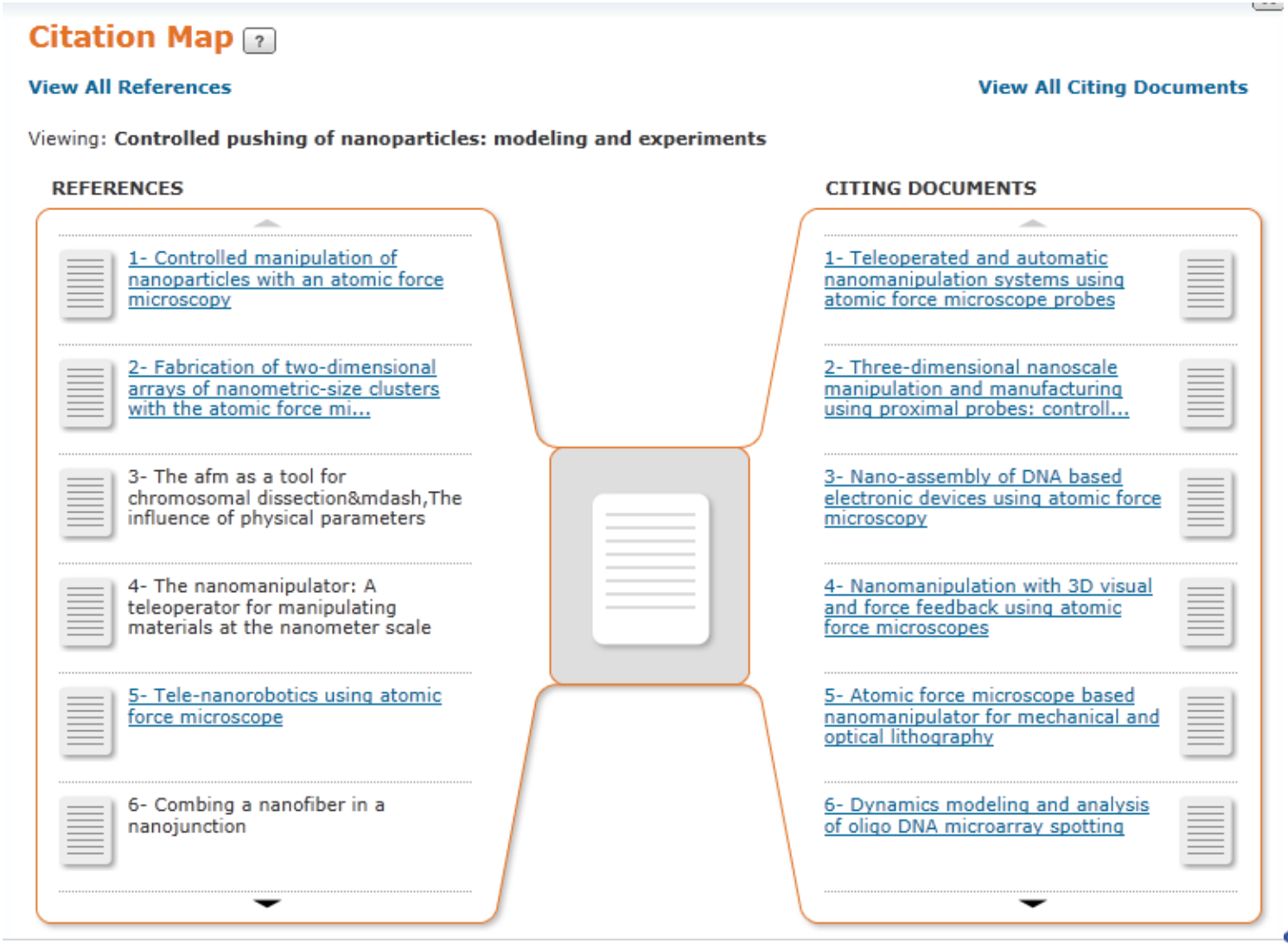

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***Abstract*—In this paper we present a waveform relaxation approach for the transient analysis of 3-D electromagnetic problems using the partial element equivalent circuit (PEEC) method. Relying on weaker coupling among separated systems, a waveform relaxation scheme is proposed to accelerate the transient analysis of large electromagnetic problems. The results are compared with those obtained using a conventional PEEC formulation. They exhibit a significant speed-up while preserving the solution accuracy.**

***Index Terms*—Partial element equivalent circuit (PEEC) method, partitioning, of circuits, transient analysis, waveform relaxation technique.**

I. Introduction

TODAY, a large number of classical techniques and solvers are available for the solution of conventional electromagnetic problems. This has greatly increased the ability to solve relevant design issues for integrated circuit, package and antenna problems. However, remaining challenges in this area are represented by the solution of larger problems in both the time and frequency domain. Now techniques exist today for large problems based on integral equations. Most well-known approaches are iterative matrix solution-based [1], [2], multipole techniques [3], [4], and singular value decomposition (SVD) and QR-based reduction methods [5], [6]. There is also a growing need in industry for the solution of large, complex combined circuit and electromagnetic problems.

Issues which have limited the solution of such large problems in the past are due to memory size limitations and the performance of single processor machines. Fortunately, lower cost

rithms must be found which are suited for the solution of large problems using parallel processors. Such solutions clearly are based on subdividing a problem into subproblems so that multiple processors can be applied.

The partial element equivalent circuit (PEEC) technique, which provides 3-D electromagnetic models in the circuit domain, has evolved over the years. Much progress has been made in the capabilities of electromagnetic PEEC modeling from its origin [7] to numerous extensions including volume and surface-based techniques and non-orthogonal models [8]. It is a natural approach for the solution of combined circuits and electromagnetic problems in the circuit domain.

A choice of the most efficient solution techniques is of importance for large problems since algorithms often are tailored to a special situation. In this paper, we address a special subclass of problems that consist of a potentially very large number of subsystems which do not exhibit very strong direct connections. The approach we are applying is of the subclass of domain composition methods called waveform relaxation (WR) which was first developed in [9]. Further, a more detailed description of WR techniques is presented in [10]. Today, new application areas are considered for the WR techniques besides the class of circuit problems which were solved in the early stage of the approach [9]. WR has also been applied to 2-D transmission line problems, e.g., [11]–[14]. Recently, the WR technique has been successfully used to model multiple coupled transmission lines by exploiting the partitioning due to weak transverse couplings [15], [16]. Earlier, WR was also applied to analyze a simple antenna model in the time domain [17].

Here, we consider the application of WR for electromagnetic

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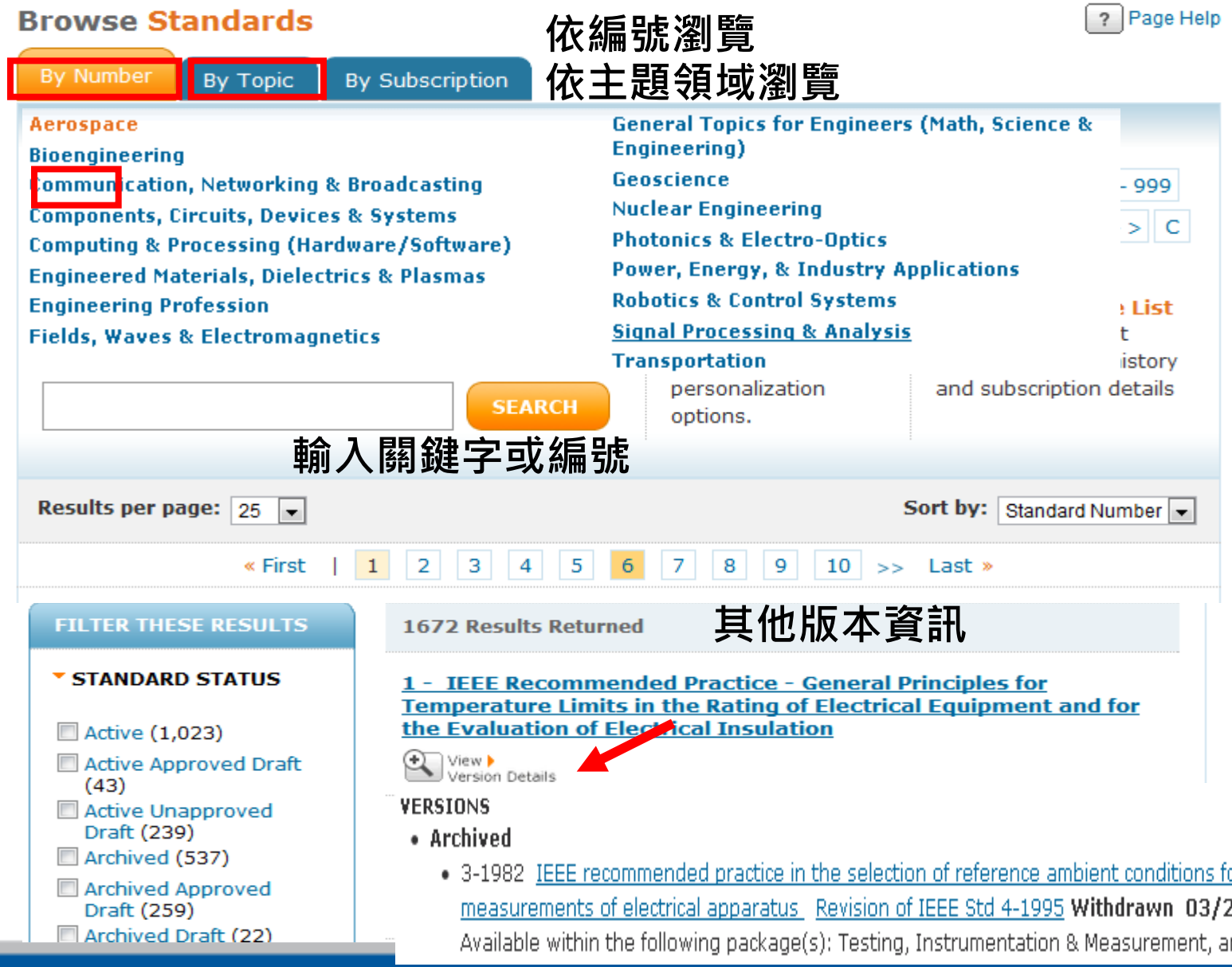

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The environmental performance criteria of the IEEE 1680 family of standards are intended to define a measure of environmental leadership in: the design and manufacture of ~~personal computer~~ electronic products ~~that are marketed to institutions~~; the delivery of specified services that are associated with the sale of the product ~~to institutions~~; and in associated corporate performance characteristics.

This family of standards is defined with the intention that the criteria are technically feasible to achieve, but that only products demonstrating the leading environmental performance currently available in the marketplace would meet them at the time of their adoption. As the environmental performance of products that are available in the marketplace improves, it is intended that the criteria will be updated and revised to set a higher performance standard for leadership products.

This standard is intended to serve as a baseline for further environmental standards for additional electronic products to be developed in the future. References to IEEE Std 1680 likewise reference, unless otherwise specified, the individual product standards in the IEEE 1680 family of standards.

1.3 Application

The environmental performance criteria are contained in the standards that are members of this IEEE 1680 family of standards. The principles and procedures identified in Clause 1 apply to ~~notebook personal computers, desktop personal computers, and personal computer monitors. The principles and procedures identified in Clause 1, Clause 2, and Clause 3 apply to personal computer~~ electronic products and will apply to future standards developed for additional electronic products.

Different configurations of a product, as defined in the standards in this family, may include options for processors, memory, hard disks, etc. A product, for the purpose of this family of standards, is every configuration that could be offered in a specific marketing model and chassis type. If ~~there is a~~ specific ~~configuration within a marketing model and chassis type that would change~~ configurations do not meet the ~~environmental performance substantially, especially if that configuration would no longer meet a criterion~~ criteria as declared, then the manufacturer ~~could not claim conformance to this Standard for that configuration, even if the same model in other configurations did conform to this Standard. The manufacturer~~ shall clearly report ~~such special~~ to the Product Registration Entity which configurations ~~that~~ do not ~~conform to~~ meet the ~~Standard to the Product Registration Entity~~ criteria as declared.

A product includes ~~a desktop computer, a notebook computer or monitor,~~ an electronic product and all the peripherals that are integral to its operation. For example, the desktop computer together with the keyboard, the mouse, and the power cord would be a product.

1.4 Conformance with the IEEE 1680 family of standards

A manufacturer may designate one or more specific geographic regions, or countries, for which a product declaration is applicable. In order to ~~conform to this Standard~~ be conformant in a designated region or country, each unit of ~~a~~ the product that is sold in that region or country must satisfy all of the applicable

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Topics: Engineering Profession ; General Topics for Engineers (Math, Science & Engineering)

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ABSTRACT 摘要

A celebratory book honoring the award winners of the past century from the AIEE, IRE and IEEE.

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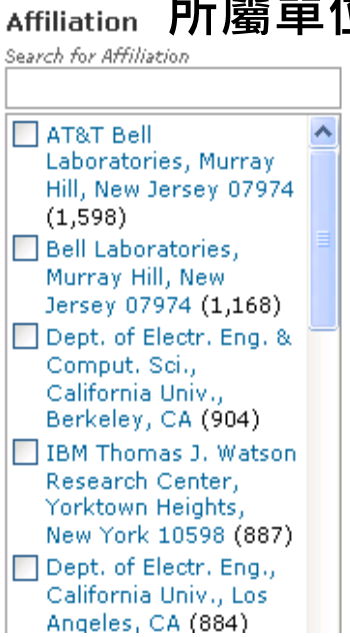

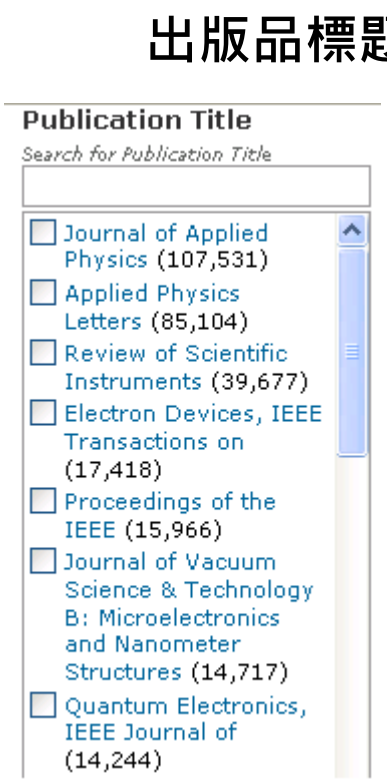



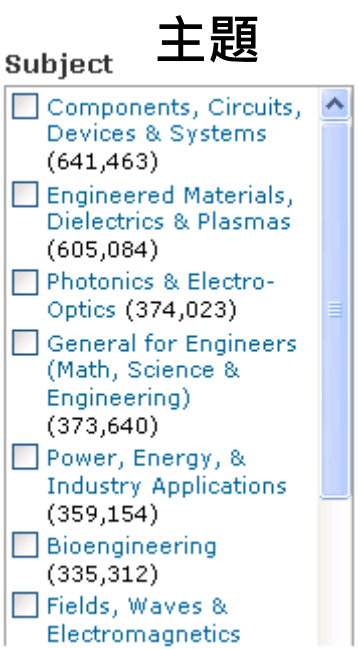



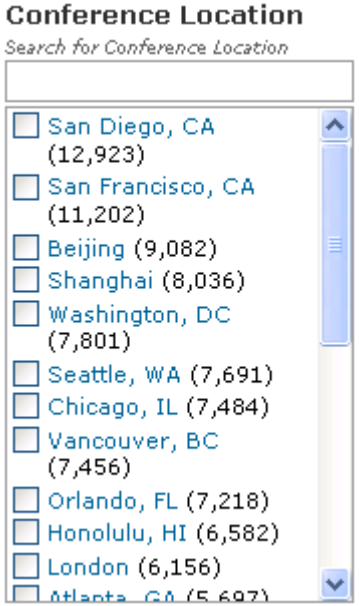

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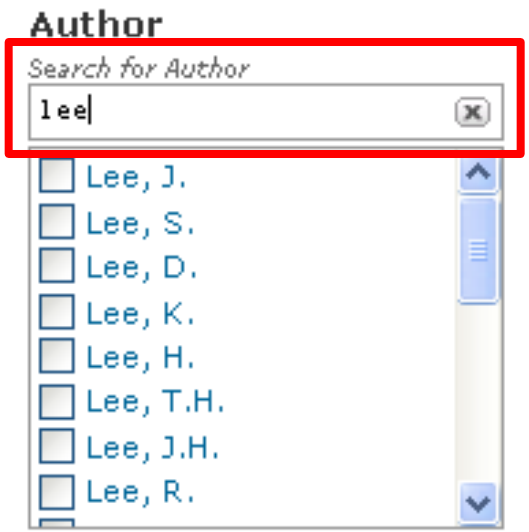

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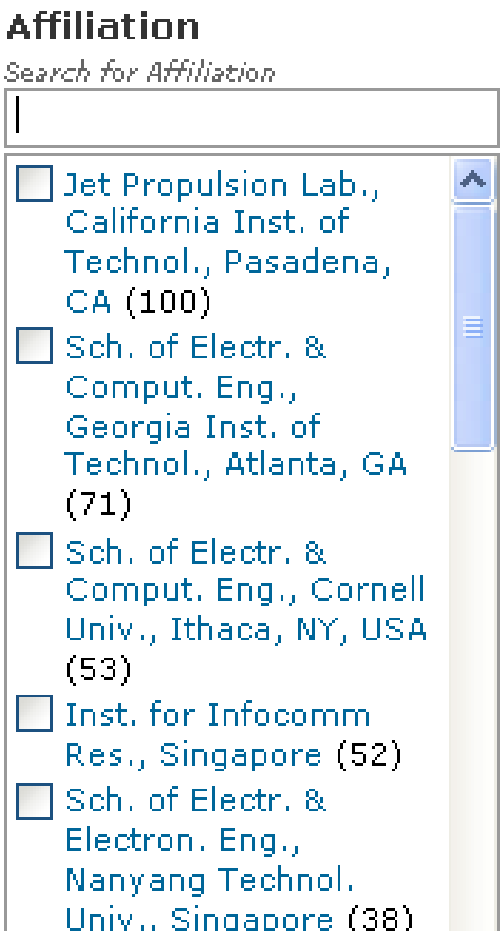

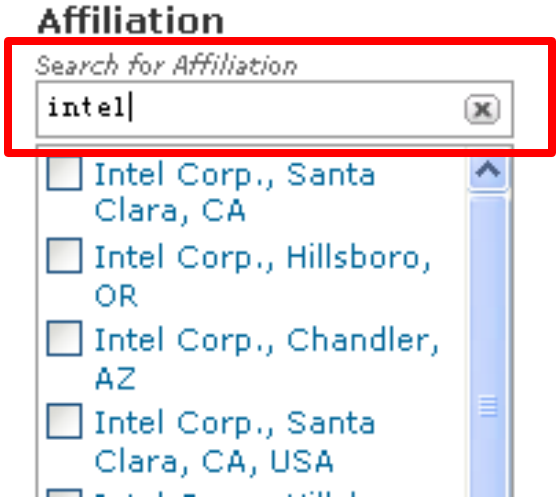



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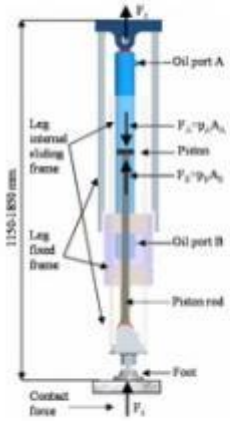

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A. Notation for hydraulics

x_p Differential cylinder piston position.

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For aircraft navigation, fault detection and isolation is paramount. Faults that may cause HMI must be noticed and mitigated in real-time. The operation of GPS has been very reliable and clearly reflects the extraordinary skill of the Air Force personnel that operate and maintain GPS. However, faults have occurred. Some are man-made and others are due to Mother Nature.

For example, the navigation data broadcast by the GPS satellites occasionally contain significant errors. As shown in Fig. 3, the GPS satellites are monitored by a relatively sparse ground control network (five stations are shown in Fig. 3 but eight new stations have been recently added [5]). Measurements at the ground stations are used to predict the orbit of the GPS satellites. These predictions are uploaded to the satellite and broadcast to the users. Generally, this estimated orbit is within 1 or 2 m of the true orbit [6]. However, the broadcast

we ... 9 and 2007, errors

out ... curred on April 10,

4 contained an error of at least

6. Broadcast vs. precise GPS ephemerides: A historical perspective

D. L. M. Warren, J. F. Raquet

GPS Solutions, Vol. 7, issue (3), 2003-12

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made longer for these architectures as the ground monitoring is no longer responsible for meeting the 6.2 s TTA on its own.

Continuity requires that the above requirements be met continuously for the duration of the approach. Given that the above requirements are met at the initiation of the approach, the probability that one of them will be exceeded must be at or below 8×10^{-6} per 15 second interval [18], [24].

Availability is the fraction of time that all above requirements are met. For the system to be useful, it must be available at least 99% of the time at any location where LPV-200 service is authorized [18], [24]. For scheduled service, it may need to be available for even greater percentages of time (between 99.9% and 99.999%).

All of the architectures considered for this paper rely on dual frequency ranging measurements. The L1 and L5 signals are combined in a way to eliminate the first-order ionospheric delay [25]. Unfortunately, this combination increases the impact of measurement noise and multipath. The measurement noise term for the jth satellite can be described as normally distributed with zero mean and variance

$$\sigma^2_{j,\mathrm{DF\_air}} = \left(\frac{f_1^2}{f_1^2 - f_5^2}\right)^2 \sigma^2_{\mathrm{L1},j,\mathrm{air}} + \left(\frac{f_5^2}{f_1^2 - f_5^2}\right)^2 \sigma^2_{\mathrm{L5},j,\mathrm{air}} \quad (1)$$

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$$\sigma_{j,{\rm{DF}}\_{\rm{air}}}^{2}=\left({f_{1}^{2}\over f_{1}^{2}-f_{5}^
{2}}\right)^{2}\sigma_{{\rm L1},j,{\rm air}}^{2}+\left({f_{5}^{2}\over f_{1}^{2}
-f_{5}^{2}}\right)^{2}\sigma_{{\rm L5},j,{\rm air}}^{2} \eqno{\hbox{(1)}}$$
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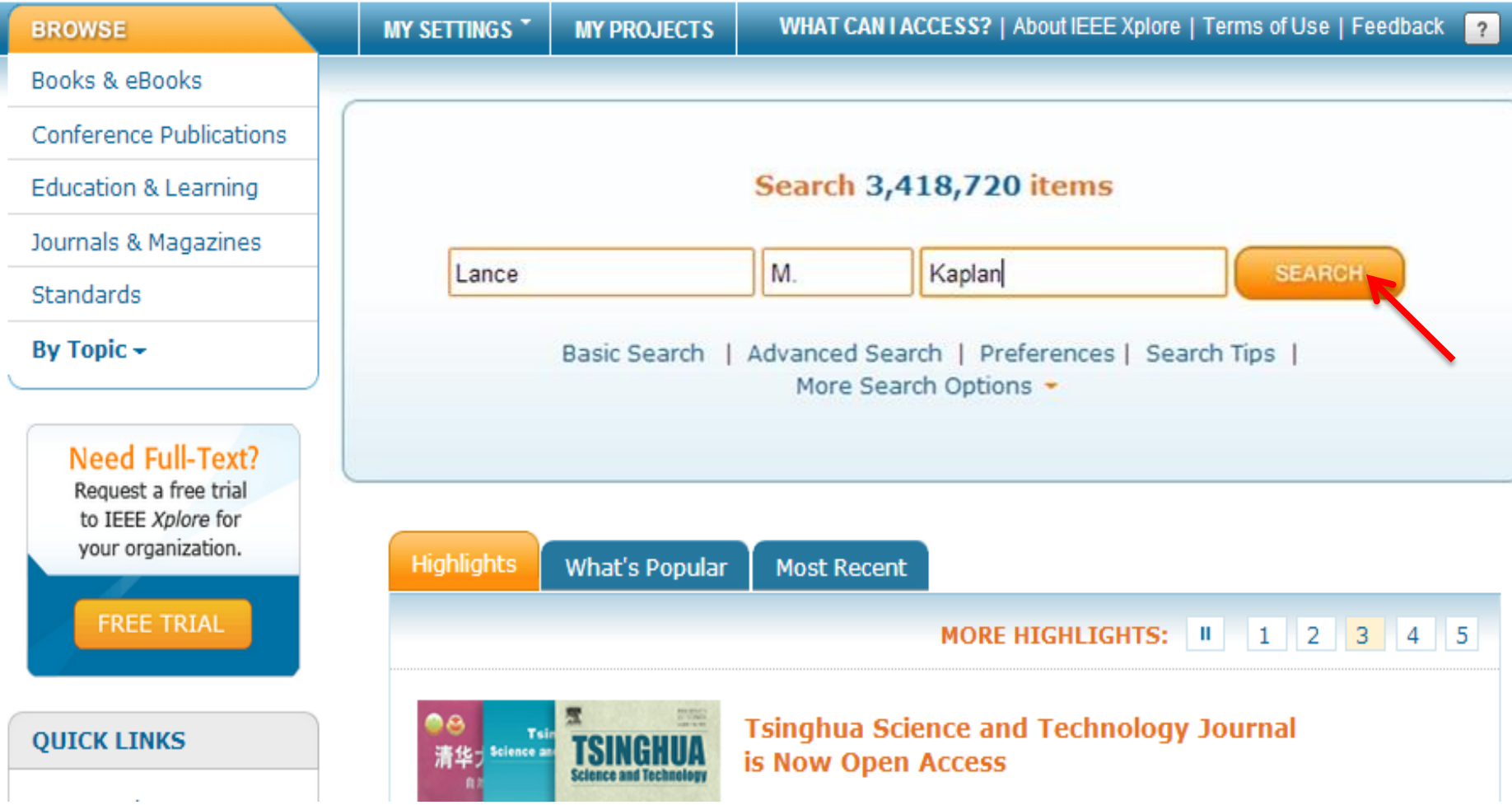
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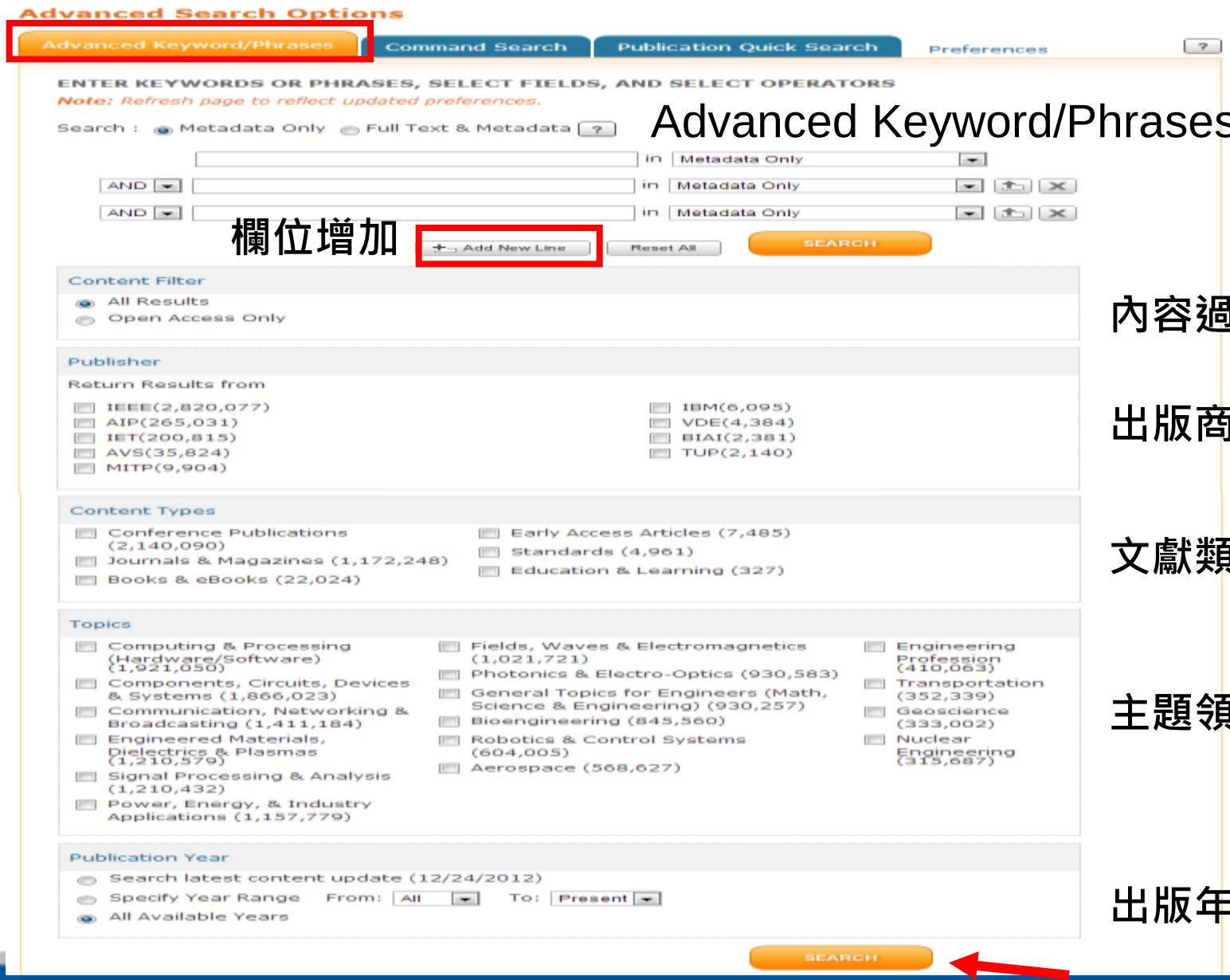

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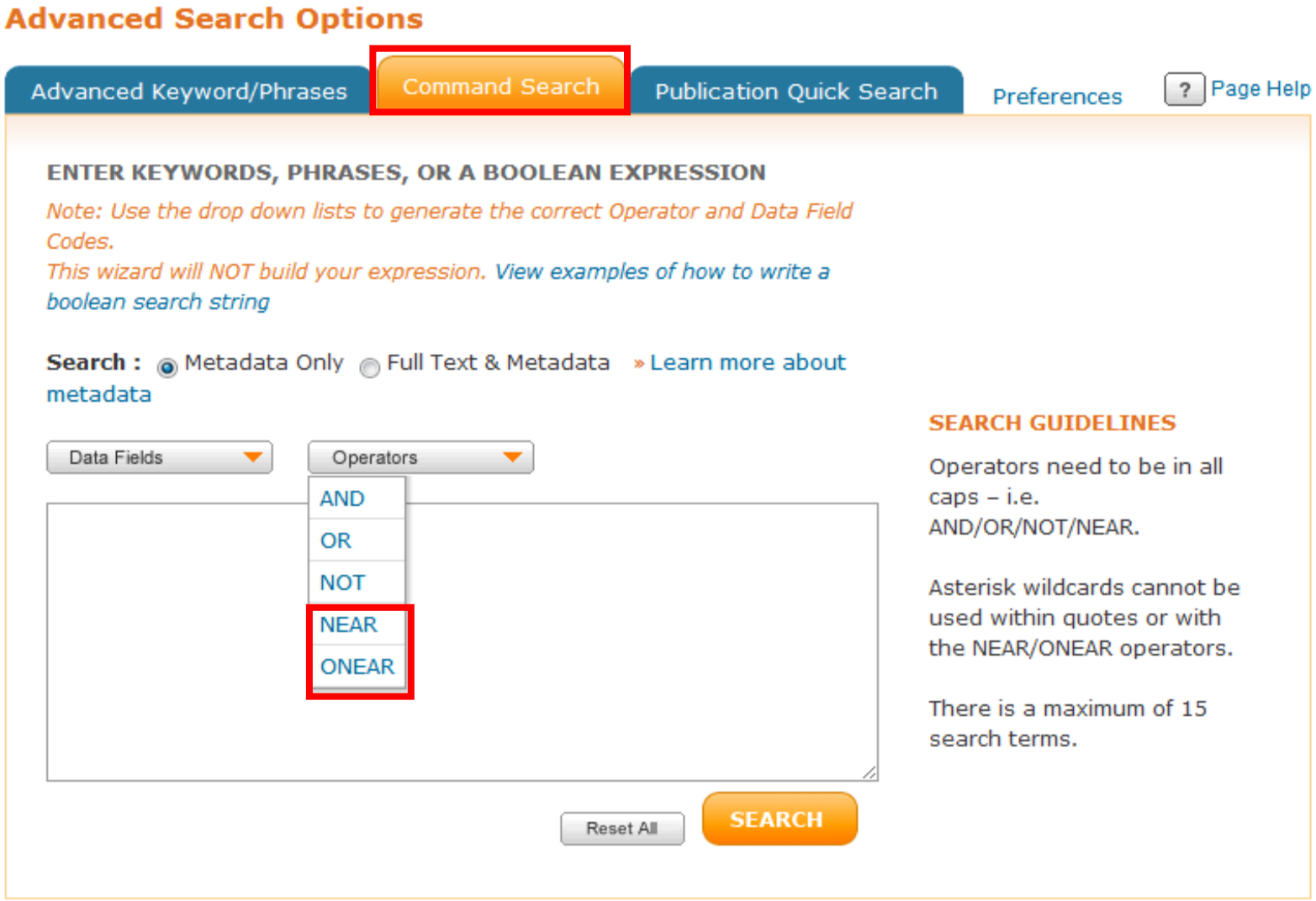
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Asia-Pacific Services Computing Conference, 2008. APSCC '08. IEEE

Digital Object Identifier: 10.1109/APSCC.2008.151

Publication Year: 2008 , Page(s): 1512 - 1516

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With the rapid development o computer technology, the embedded system has widely applied in many industrial fields. And these applications made it possible that the traditional personal-computer central pattern of computer transferred into the embedded-device central pattern. Nowadays, embedding Web-based SNMP manager into embedded devices is a hotspot of network management study with great significance. In this paper, we present the architecture of embedded network management based on SNMP agent and Web mode in Linux. It will enforce the abundant functions of network management in SNMP mode and expand the application scope of embedded-device in limited resource. Then we also draw a conclusion of critical research technology and developing policy

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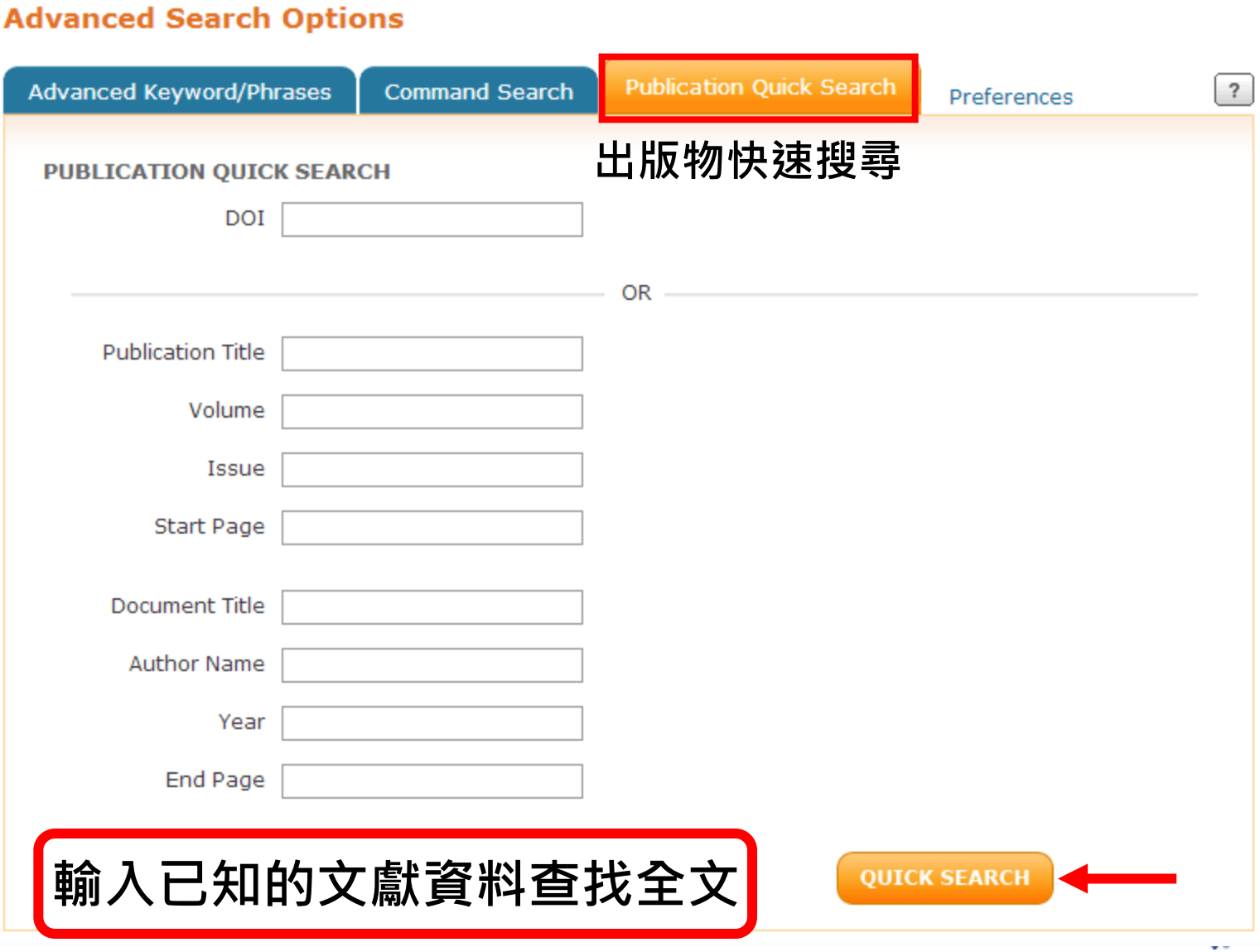

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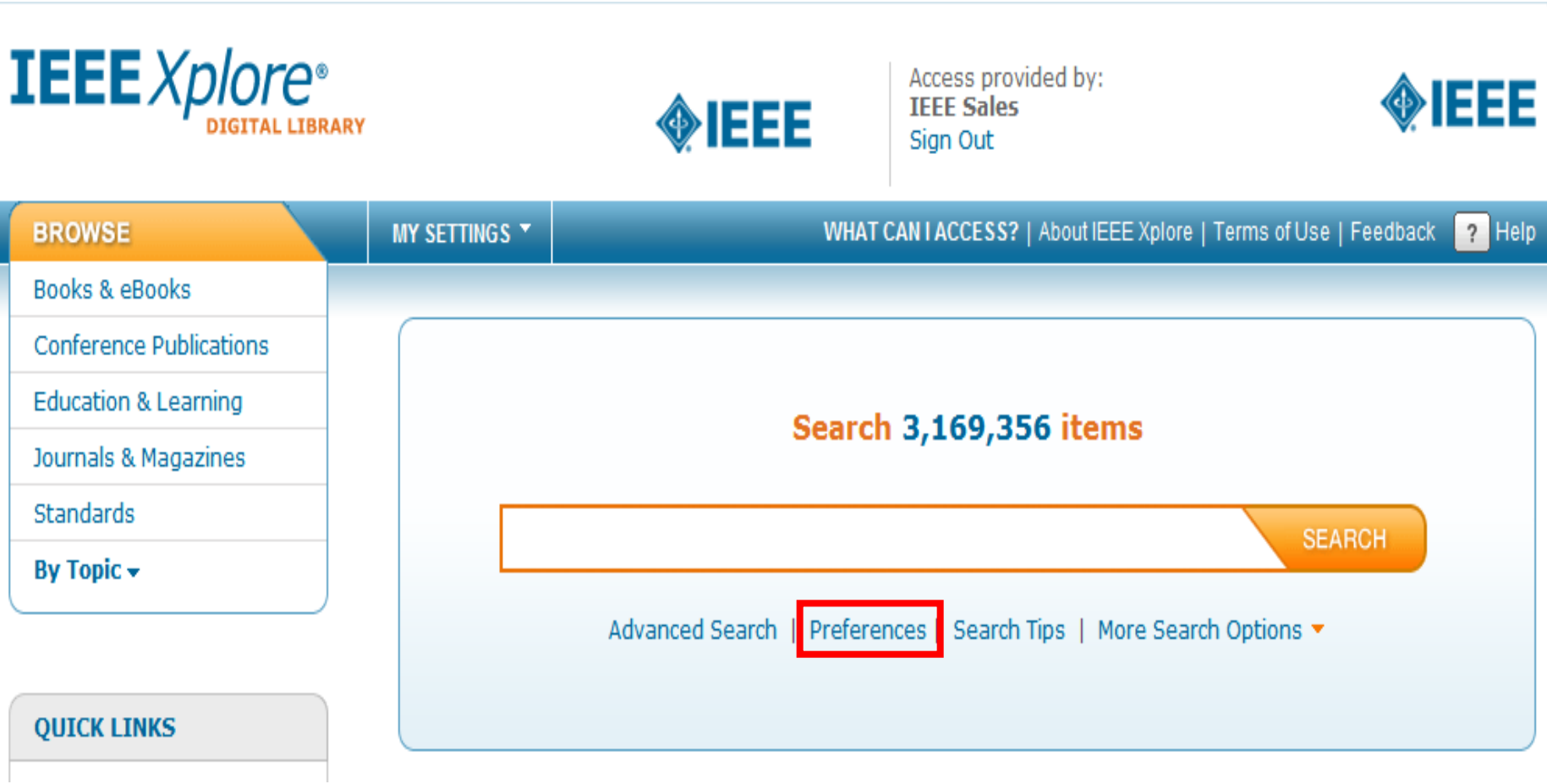

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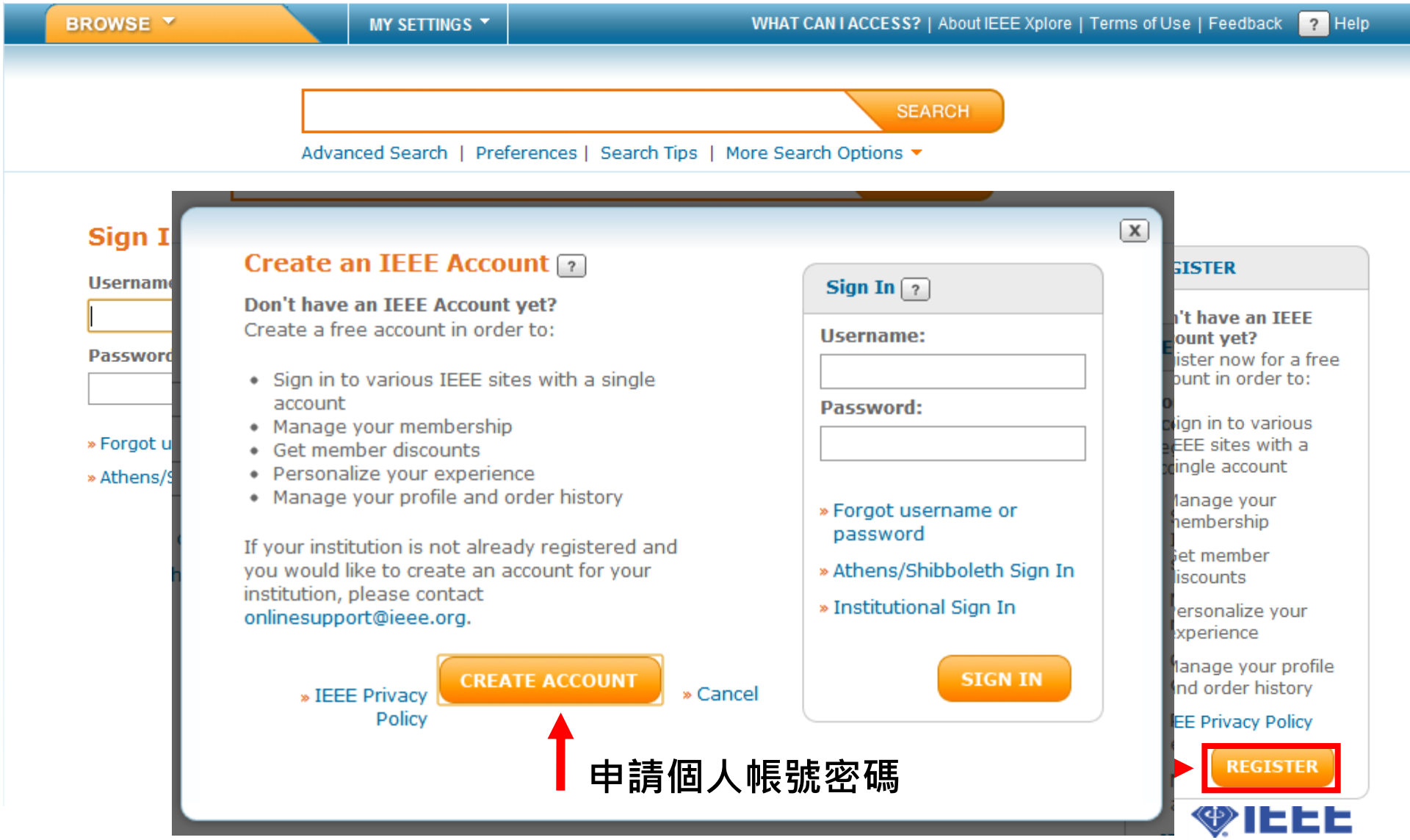

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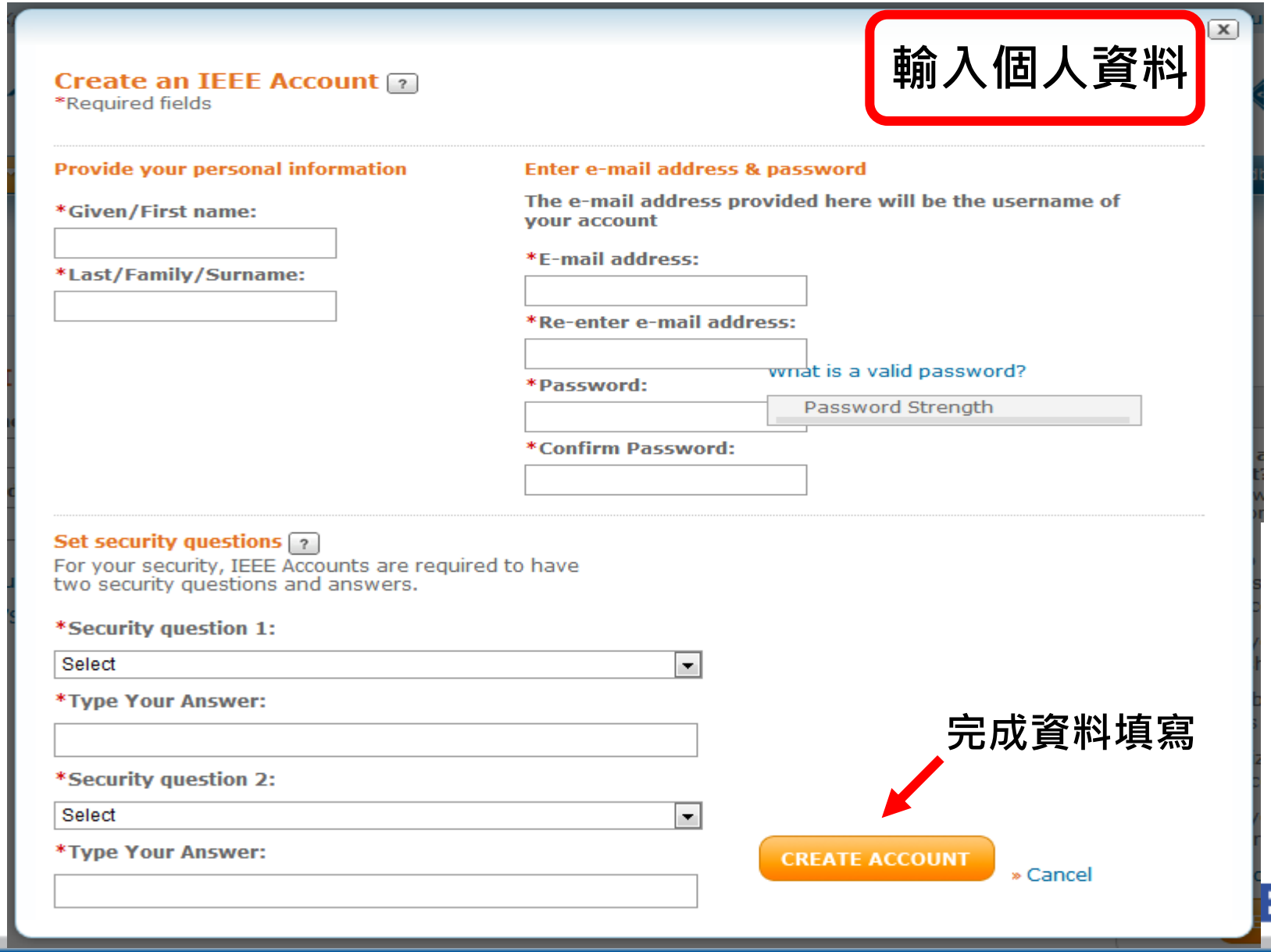

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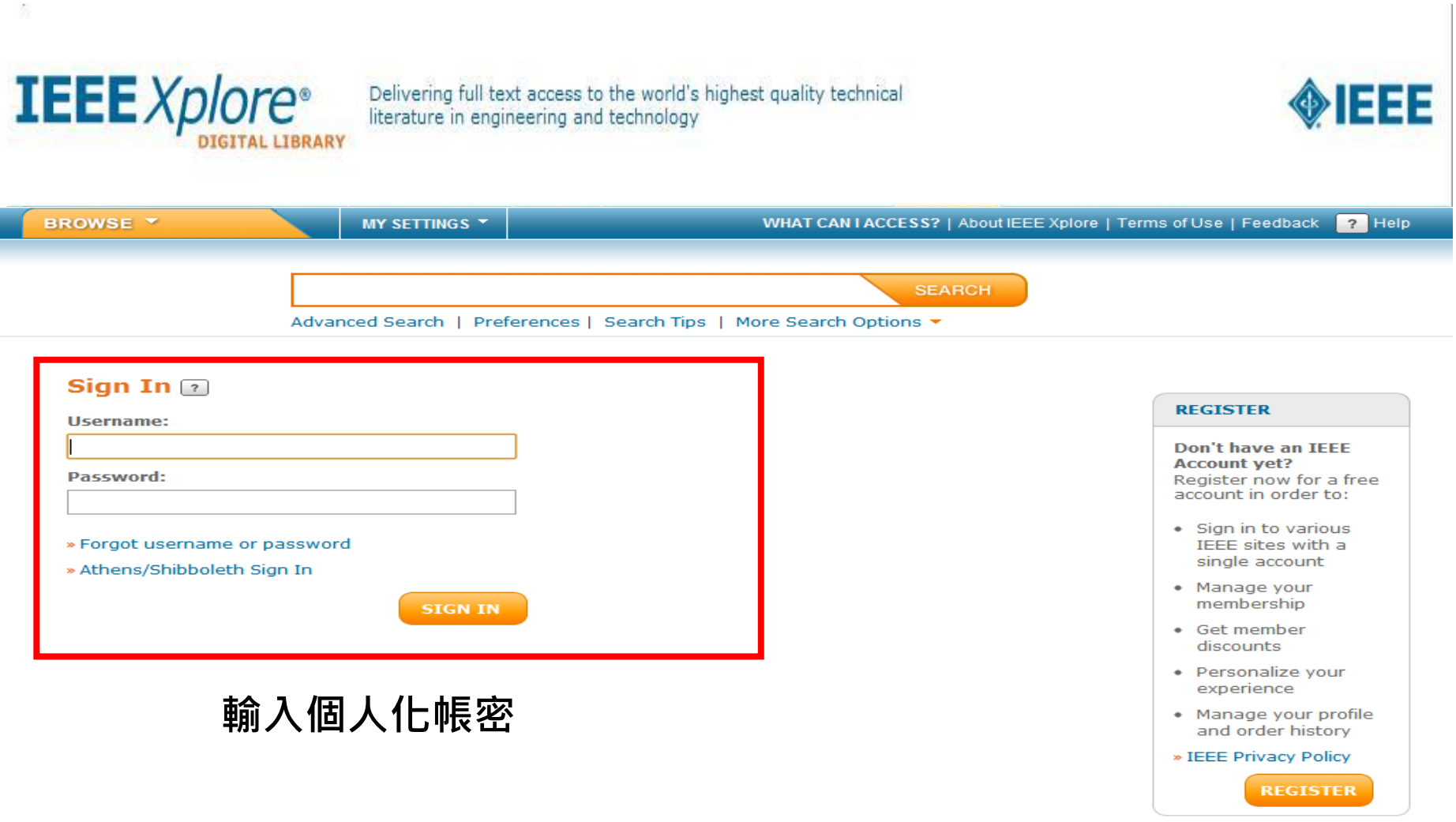

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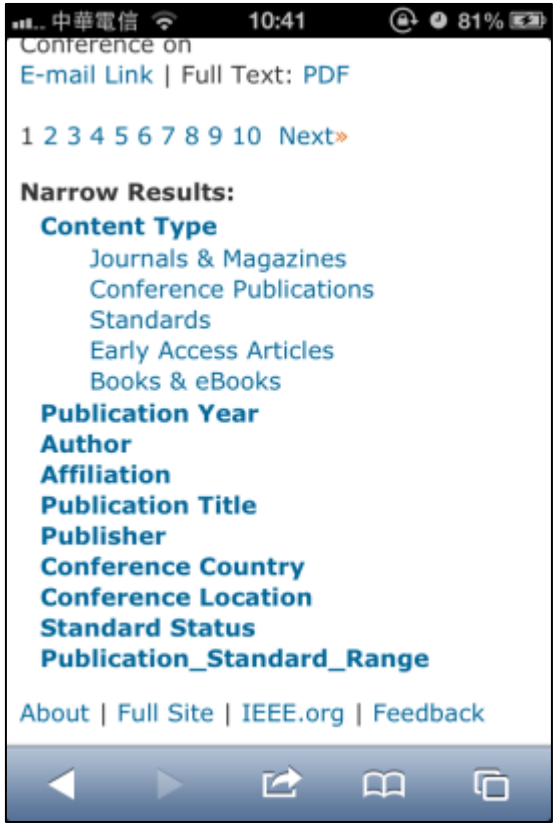

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