



“信息资源宣传月”系列讲座之四

IEL、ACM、WSN 数据库概况及使用方法

贺轩

2005年11月15日



主要内容

- IEL 数据库概况及使用方法
- ACM 数据库概况及使用方法
- WSN 数据库概况及使用方法



IEEE/IEE Electronic Library资源及其检索

主要内容

- IEL数据库简介
- 检索功能
- 检索注意事项



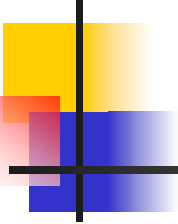
IEL数据库简介：收录内容

- IEEE/IEE Electronic Library (IEL) 数据库提供美国电气电子工程师学会 (IEEE) 和英国电气工程师学会 (IEE) 出版的205种期刊、6500余种会议录、1500余种标准的全文信息。多数出版物提供1988年以后的全文数据，但有IEEE学会下属的13个技术学会的18种出版物可以看到更早的全文。数据库每月新增25万余条信息。



IEL数据库简介：收录内容

- **1988**年以后出版的**IEEE/ IEE**学报、期刊、杂志、会议录的全文，约**1.3**万种出版物的**100**多万篇文献；
- **1950**年以后上述范围文献的部分目录；
- **IEEE**全部现行标准



IEL数据库简介：学科范围

- 计算机
- 电气电子
- 信息科学
- 物理学



IEL数据库简介：其它

- 书目数据来自于INSPEC数据库
- 全文格式多数为PDF，用户通过检索可以浏览、下载或打印与原出版物版面完全相同的文字、图表、图像和照片的全文信息（需安装Acrobat Reader），少量全文为HTML格式。
- 检索平台：IEEE XPLORE

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IEL数据库简介：IEEE

- IEEE(Institute of Electrical and Electronics Engineers, Inc.)美国电气工程师学会是一个非盈利的技术专业协会，拥有来自**175**个国家的**36**万个人会员。
- **IEEE**在计算机工程、生物医学技术、远程通信、电力、航空航天、消费电子学等领域中引领着世界权威。



IEL数据库简介：IEEE

- 出版电气工程、计算机与控制技术领域的文献占全世界**30%**
- 每年举办**300**多种重要学术会议
- 拥有**900**多种现行标准，另有**700**种标准正在制定中



IEL数据库简介： IEE

- IEE(The Institution of Electrical Engineers)
英国电气工程师学会成立于**1871**年，是欧洲最大的专业工程学会，拥有来自全世界的近**13**万会员，致力于电气学、电子学和制造科学与工程的发展。



IEL数据库简介： IEE主要产品

- print and electronic publications (books, journals, magazines, conference proceedings) in many areas of electrical and electronic engineering.
- Wiring Regulations and a suite of associated publications.
- The Inspec® bibliographic database



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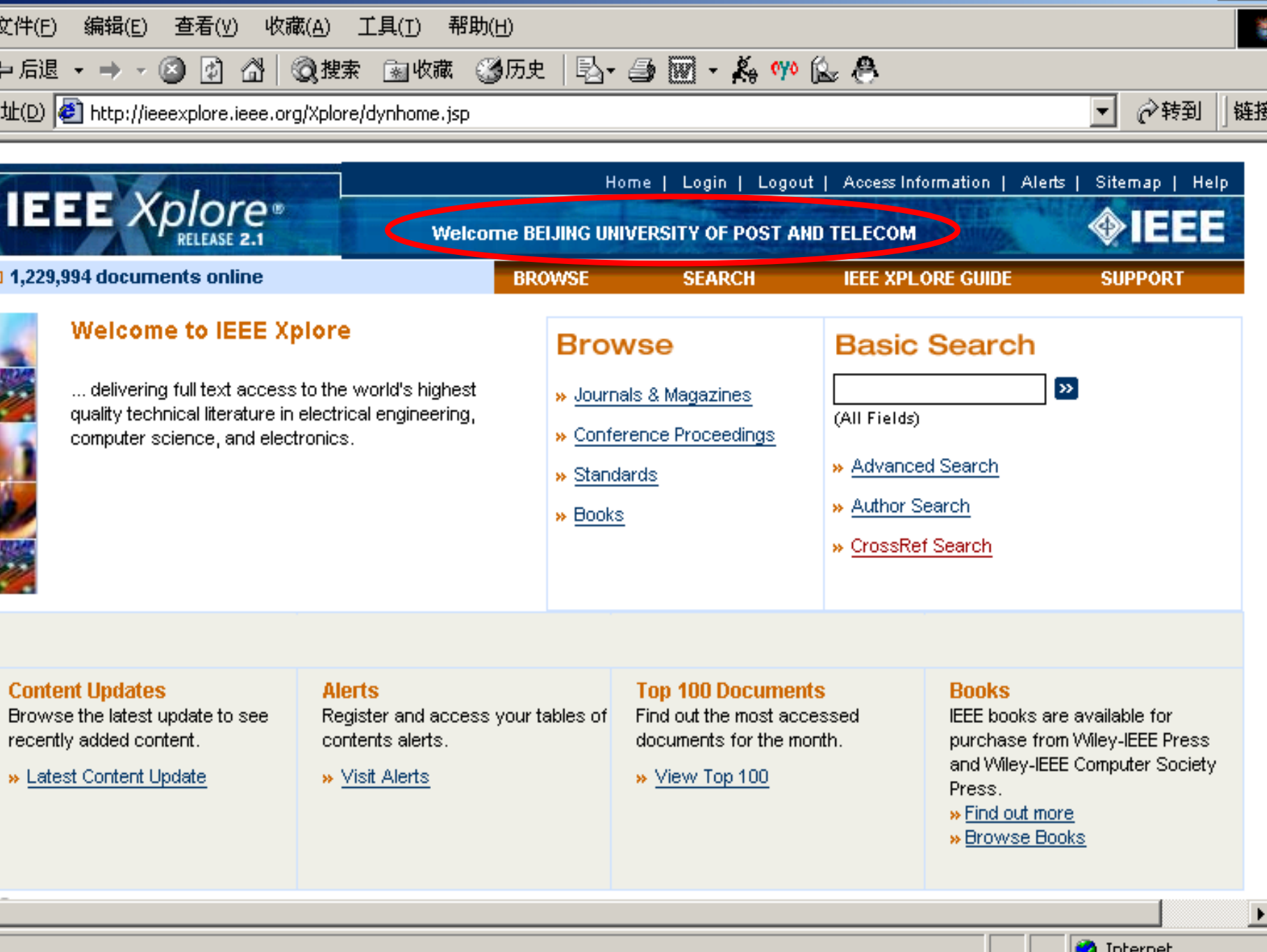
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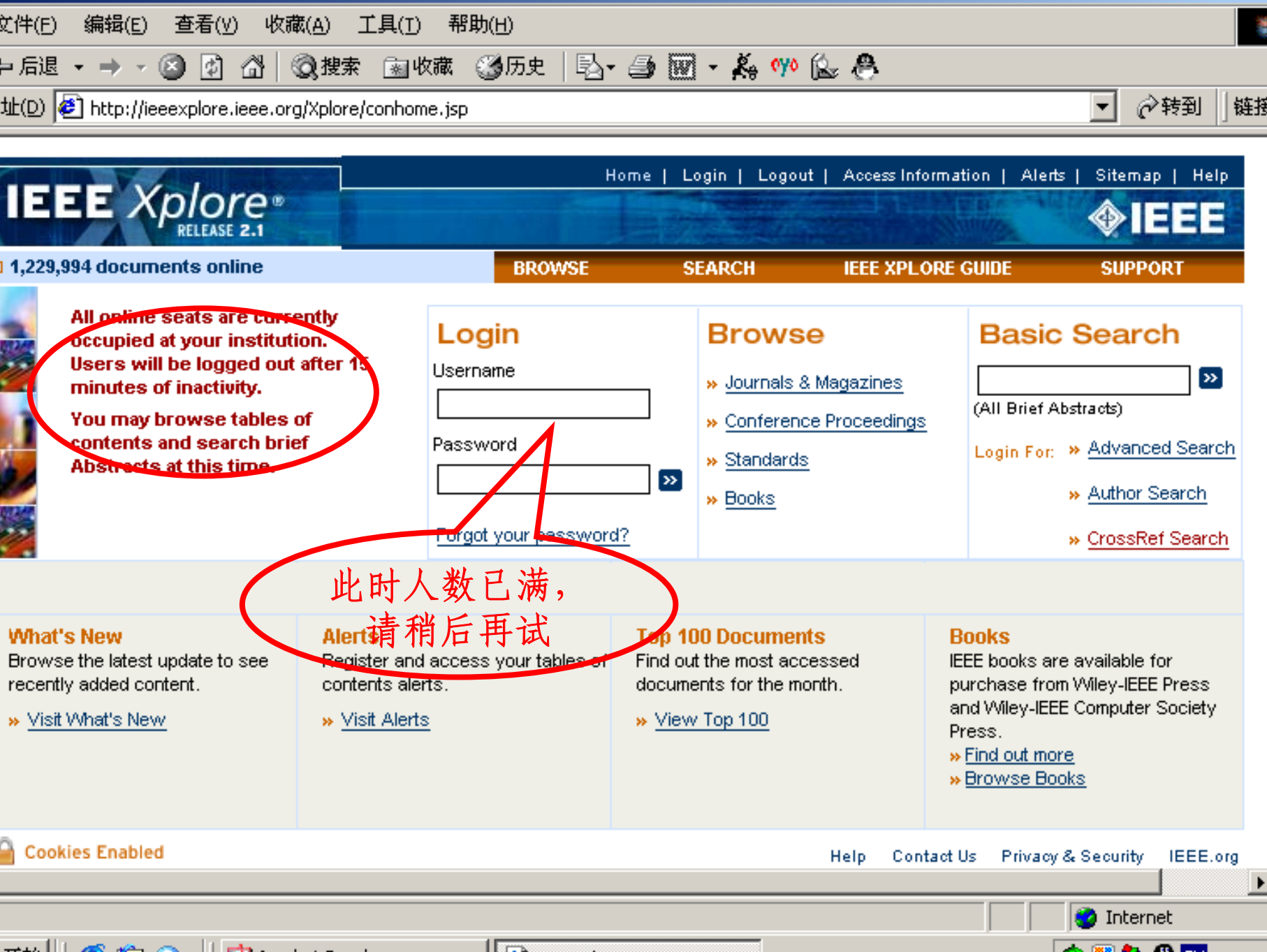
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- 基本检索 (Basic Search)
- 高级检索 (Advanced)
- 作者检索 (Author)
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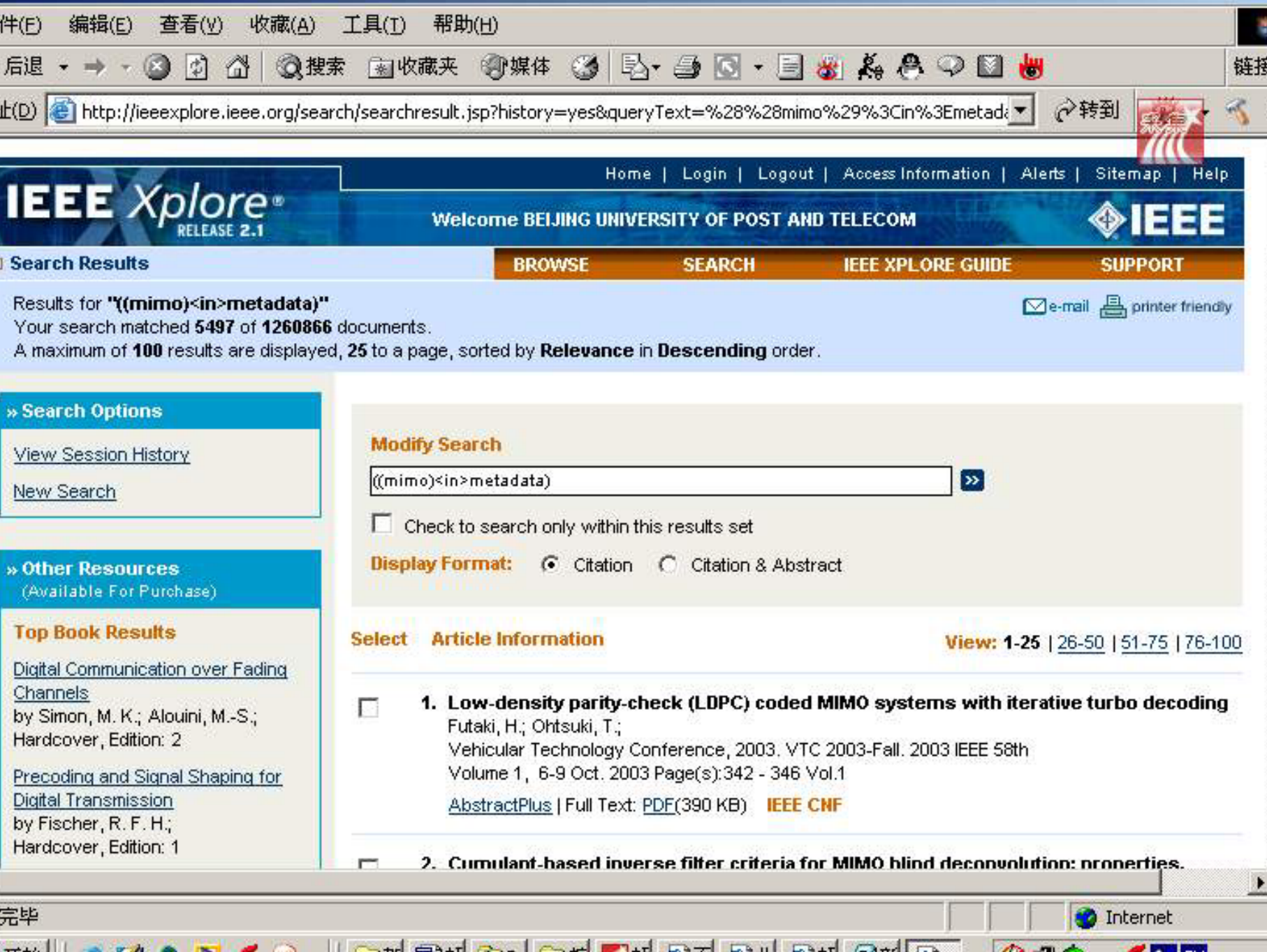
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检索规则

检索词包括：关键词、主题词、姓名、号码或词组（短语）。

- 词组检索时若不做特殊说明，系统则认为词组间的词是**与**关系。

如：optical fiber 为optical and fiber.

- 用引号将检索词括起，表示检索词做精确检索。
如：“optical fiber”检索结果中出现的词与输入词相同。
- 简单检索中，系统可自动归并单、复数及词干检索。
如：fiber在结果中可包括fibers, fiberglass等词。



检索规则

■ 通配符

通配符可用“?”和“*”表示，? 可替代一个字母，*可替代多个字母。

如： cable?包括cables,cabled.

t?re 包括 tire,tyre,tore.

electro*包括electron,electrons, eletronic, electroics, electromagnetic等。

C3?.2*包括C37.20.2-1993,C37.20.2b-1994, C37.26-1972(IEEE标准).

检索功能：高级检索

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Enter keywords or phrases, select fields, and select operators

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	in	All Fields
AND	in	All Fields
AND	in	All Fields

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» Note: If you use all three search boxes, the entries in the first two boxes takes precedence over the entry in the third box.

OPTION 2

Enter keywords, phrases, or a Boolean expression

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Select publications

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- ☒ IEEE Conference Proceedings
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- ☒ From year All

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检索规则

- 逻辑算符为：and, or, not

- 位置检索

- **<in>**表示检索词被限定在某一字段中检索，
如：ceramic **<in>** ti
- **<paragraph>**表示检索词被限定在某一段落中检索，
如：optical **<paragraph>** fiber
- **<sentence>**表示检索词被限定在某一句子中检索，
如：optical **<sentence>** fiber
- **<phrase>**表示检索词被限定在某一短语中检索；
- **<near/n>**表示两词之间可插n个词；
- **<order>**表示保持词序检索。



检索规则

- 在输入框中，一次可输入一个或多个检索词。
- 利用字段代码限定检索区域。

如: **(optical fiber <in> ti)**

(Automatic control <in> jn)

(Automatic control <in> jn) <and> (optical fiber <in> ti)

- 高级检索中的词检索
用引号将检索词括起，可完成精确检索。



检索规则

- 执行不完整拼写检索。如：rad system结果可包括radar system, radio system, radial system.
- 完成不同书写方式检索。如：self contain可检索到self-contain。
- 作者名称采用前方一致检索。如：Johnson,J.W <in> au 不能查到Johnson,j, 或Johnson,J.R;

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>>

Example: Enter Lockett S to obtain a list of authors with the last name Lockett and the first initial S.

OPTION 2
Browse alphabetically
Select a letter from the list.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Select a name to view articles written by that author

A Khan S.	A Min Tjoa	A Tavora A. S.
A'Hearn K.	A'Ortendahl D.	A'ain A. K. B.
A'ain A. Kb.	A-Buraiky S.	A-Chang Hsu
A-Cheng Wu	A-Firna T.	A-Khatib M. M.
A-Megeed M.	A-Ning Du	A-Ping Zhang
A-Rahim A. A.	A-Rum Jun	A-Shamsi S.
A-Xin Nie	A. C. Tsoi	A. E. Hahn Jr.
A. Fung	A. H. You	A. Jain
A. L. Y. Low	A. LaRiviere H. J.	A. Medina
A. Min Tjoa	A. Testa	A. Twumasi Y.
A. Z. H. Wang	Aa Johannessen E.	Aa T. V.
Aa'lam N.	Aaberg I. A.	Aaberge D.
Aabloo A.	Aabo T.	Aabo Y.

Internet



检索功能： 作者检索

- K.Ramchandran,A.Ortega,and M.Vetteri,
“Bit allocation for dependent
quantization with applications to
multiresolution and MPEG video coders,”
IEEE Trans.Image Processing,
vol.3,pp.533-545,Sept.,1994.



作者检索说明

- 在输入框中，键入作者的姓（一般为姓名中最后部分）进行快速检索。
- 输入姓名中的部分字母也可进行检索。
- 利用作者字顺表查询检索。

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OPTION 2
Browse alphabetically
Select a letter from the list.

A B C D E F G H I J **K** L M N O P Q **R** S T U V W X Y Z

Select a name to view articles written by that author

A Khan S.	A Min Tjoa	A Tavora A. S.
A'Hearn K.	A'Ortendahl D.	A'ain A. K. B.
A'ain A. Kb.	A-Buraiky S.	A-Chang Hsu
A-Cheng Wu	A-Firna T.	A-Khatib M. M.
A-Megeed M.	A-Ning Du	A-Ping Zhang
A-Rahim A. A.	A-Rum Jun	A-Shamsi S.
A-Xin Nie	A. C. Tsoi	A. E. Hahn Jr.
A. Fung	A. H. You	A. Jain
A. L. Y. Low	A. LaRiviere H. J.	A. Medina
A. Min Tjoa	A. Testa	A. Twumasi Y.
A. Z. H. Wang	Aa Johannessen E.	Aa T. V.
Aa'lam N.	Aaberg I. A.	Aaberge D.
Aabloo A.	Aabo T.	Aabo Y.



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Example: Enter Lockett S to obtain a list of authors with the last name Lockett and the first initial S.

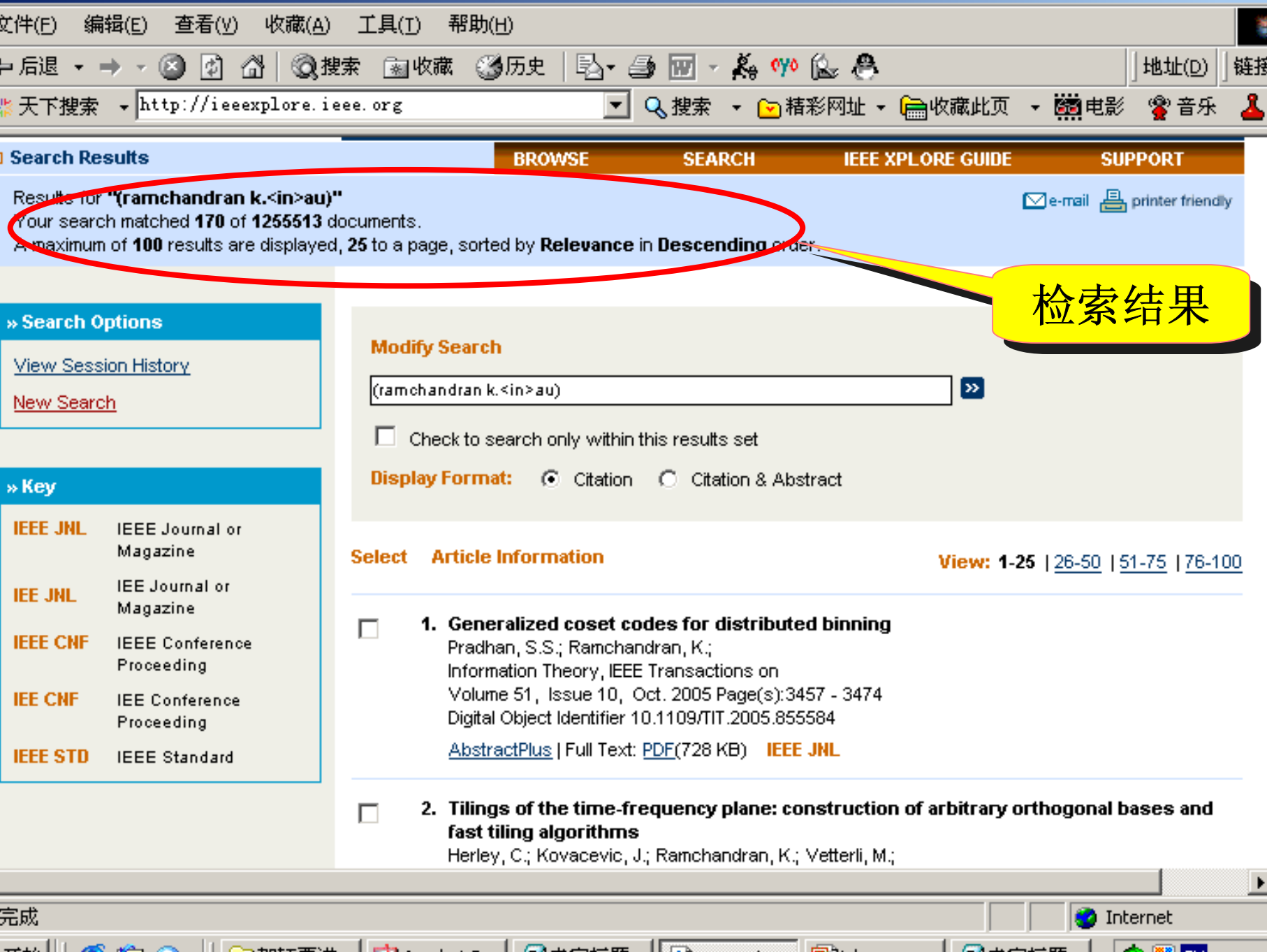
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» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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☐ Check to search only within this results set

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View: 1-25 | 26-50 | 51-75 | 76-100

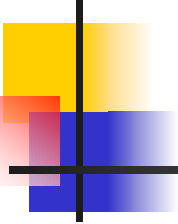
☐ 1. Generalized coset codes for distributed binning
Pradhan, S.S.; Ramchandran, K.;
Information Theory, IEEE Transactions on
Volume 51, Issue 10, Oct. 2005 Page(s):3457 - 3474
Digital Object Identifier 10.1109/TIT.2005.855584
[AbstractPlus](#) | Full Text: [PDF](#)(728 KB) [IEEE JNL](#)

☐ 2. Tilings of the time-frequency plane: construction of arbitrary orthogonal bases and fast tiling algorithms
Herley, C.; Kovacevic, J.; Ramchandran, K.; Vetterli, M;

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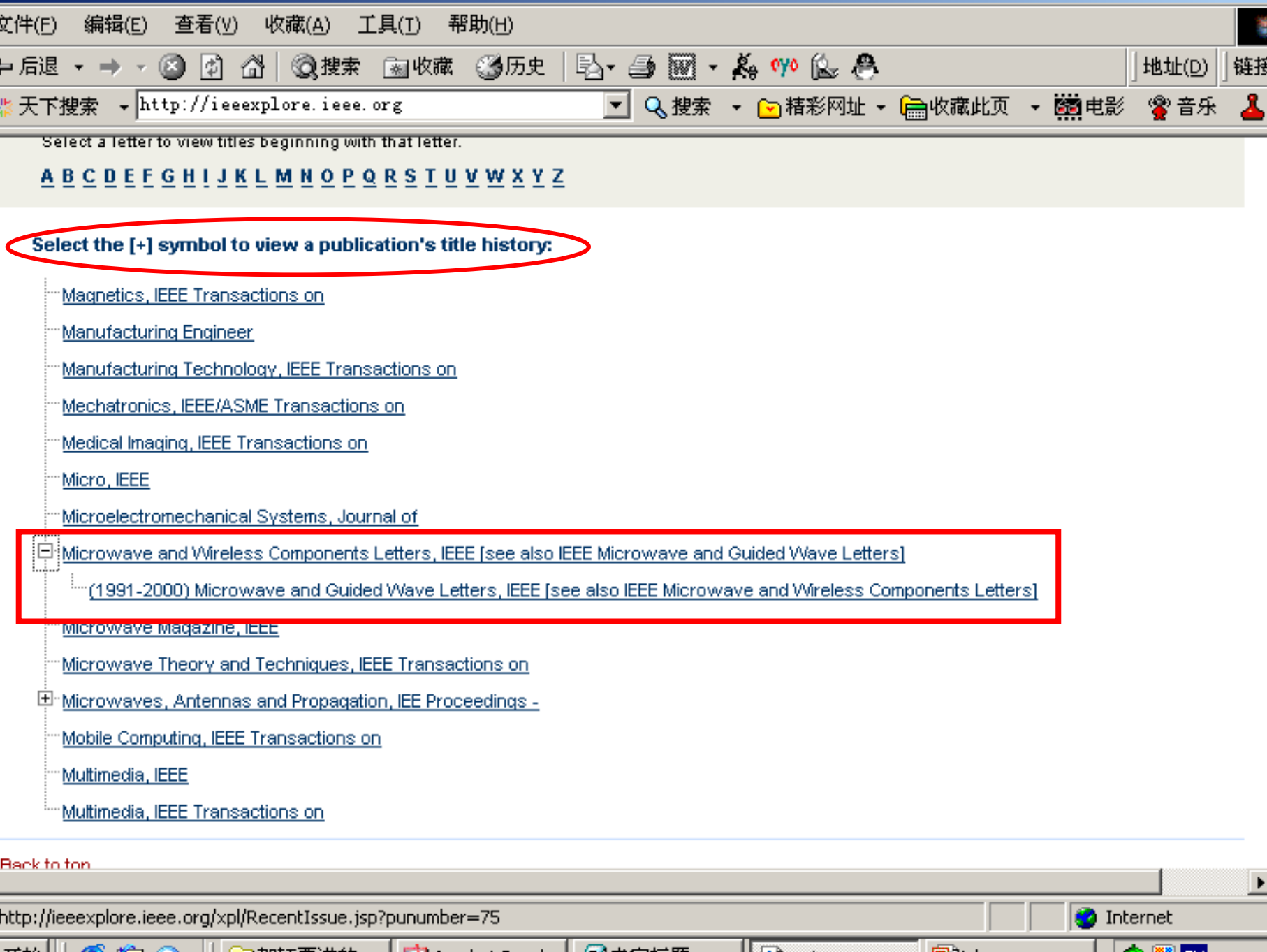
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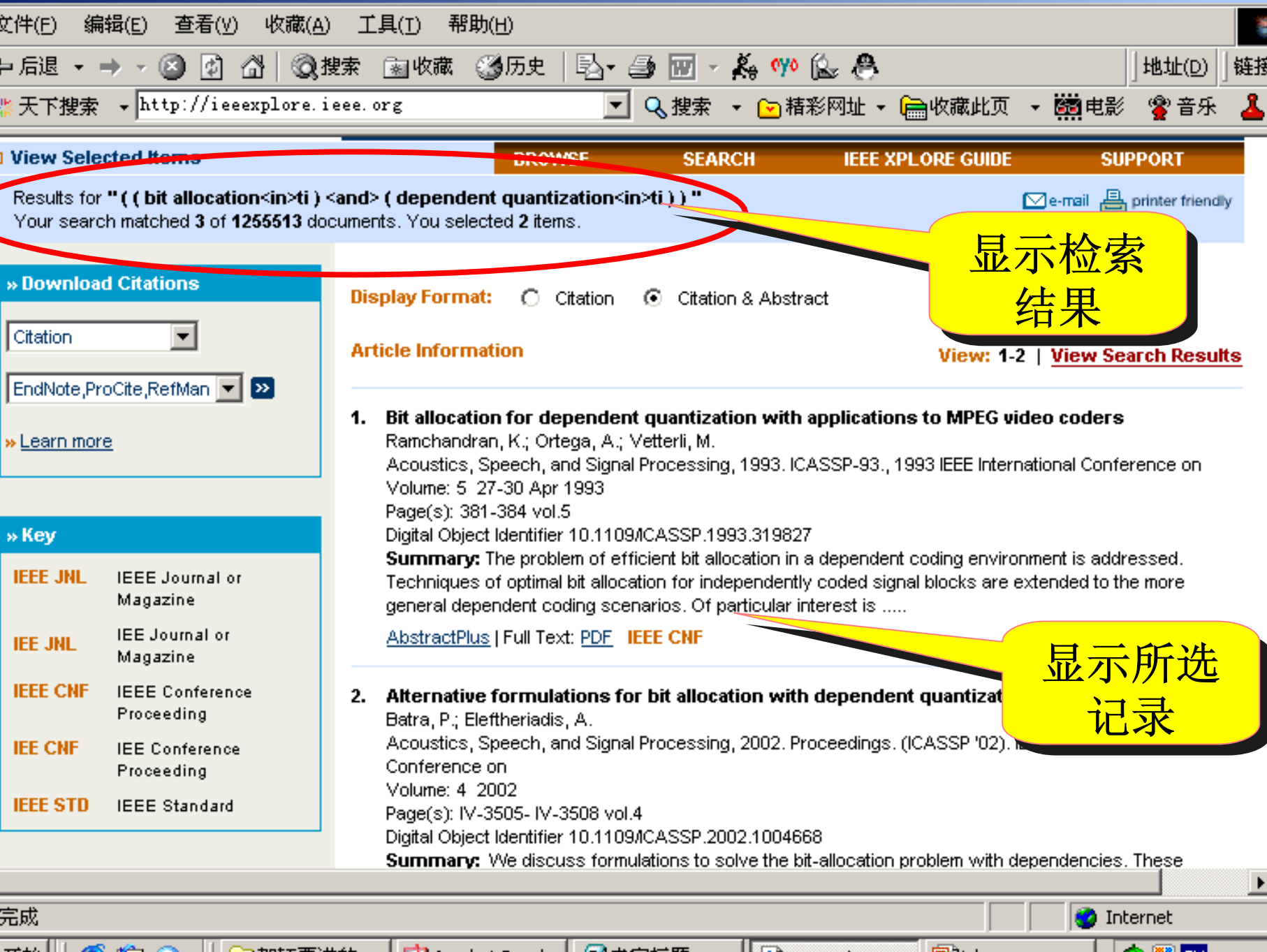
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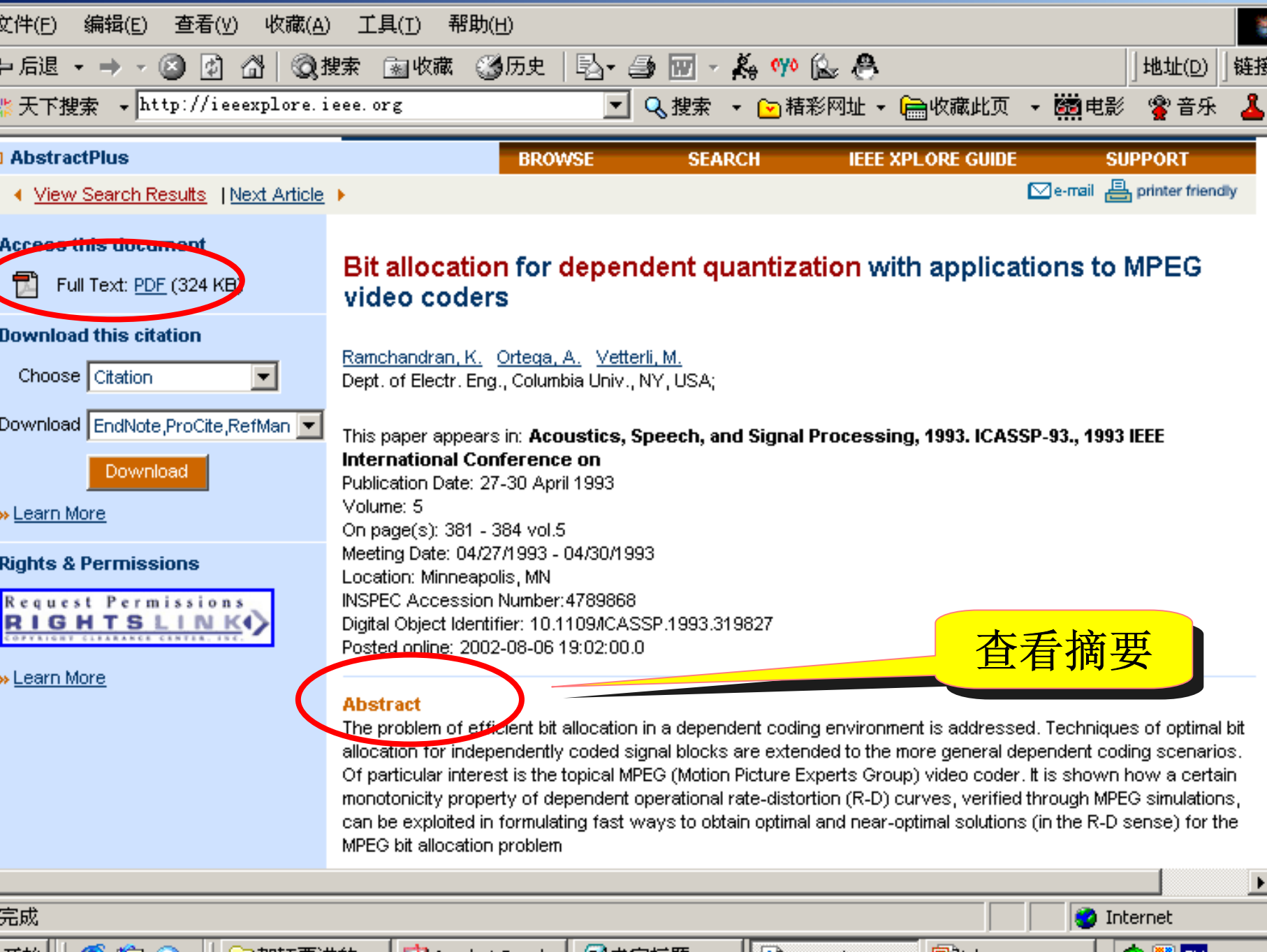
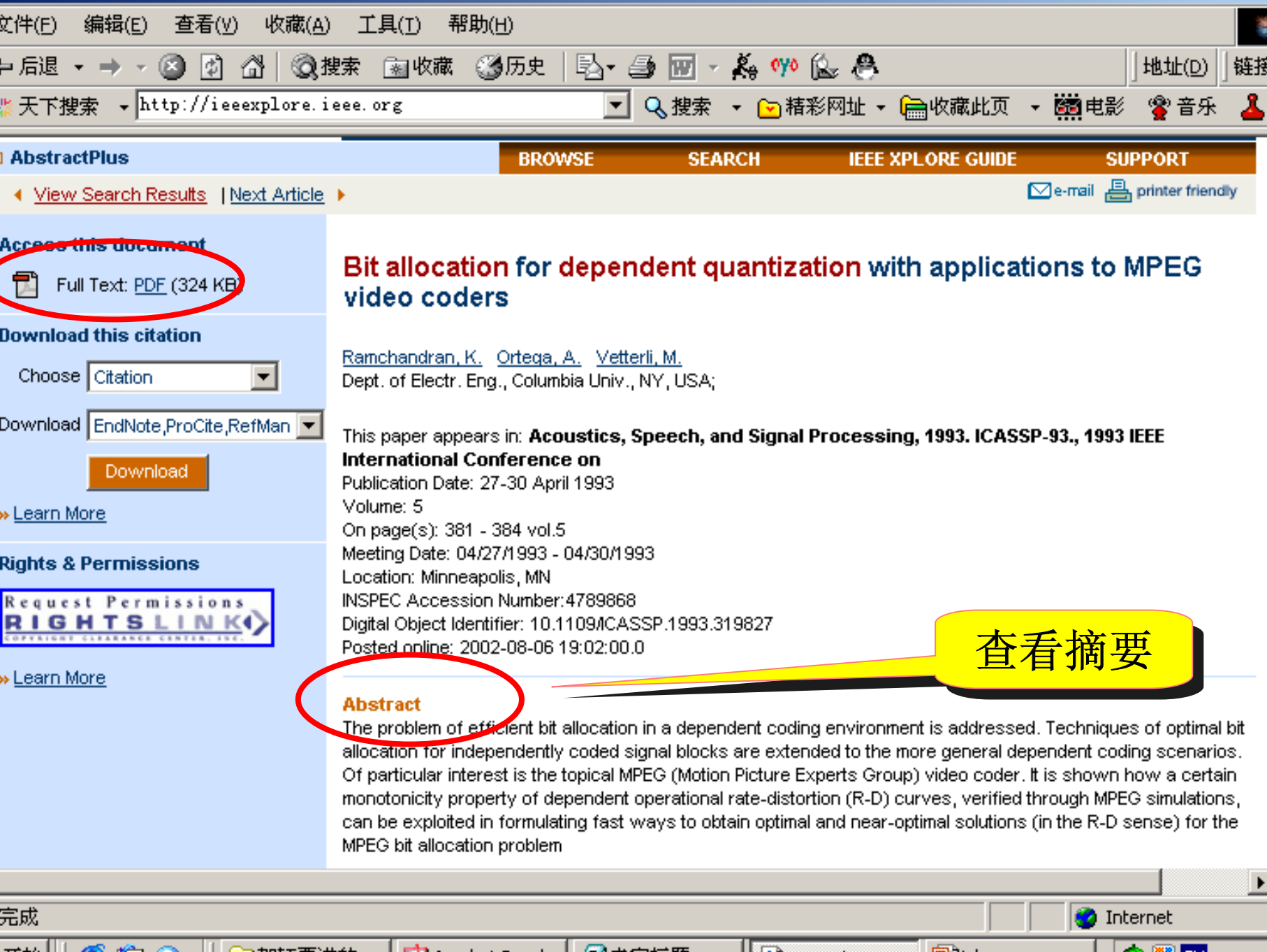
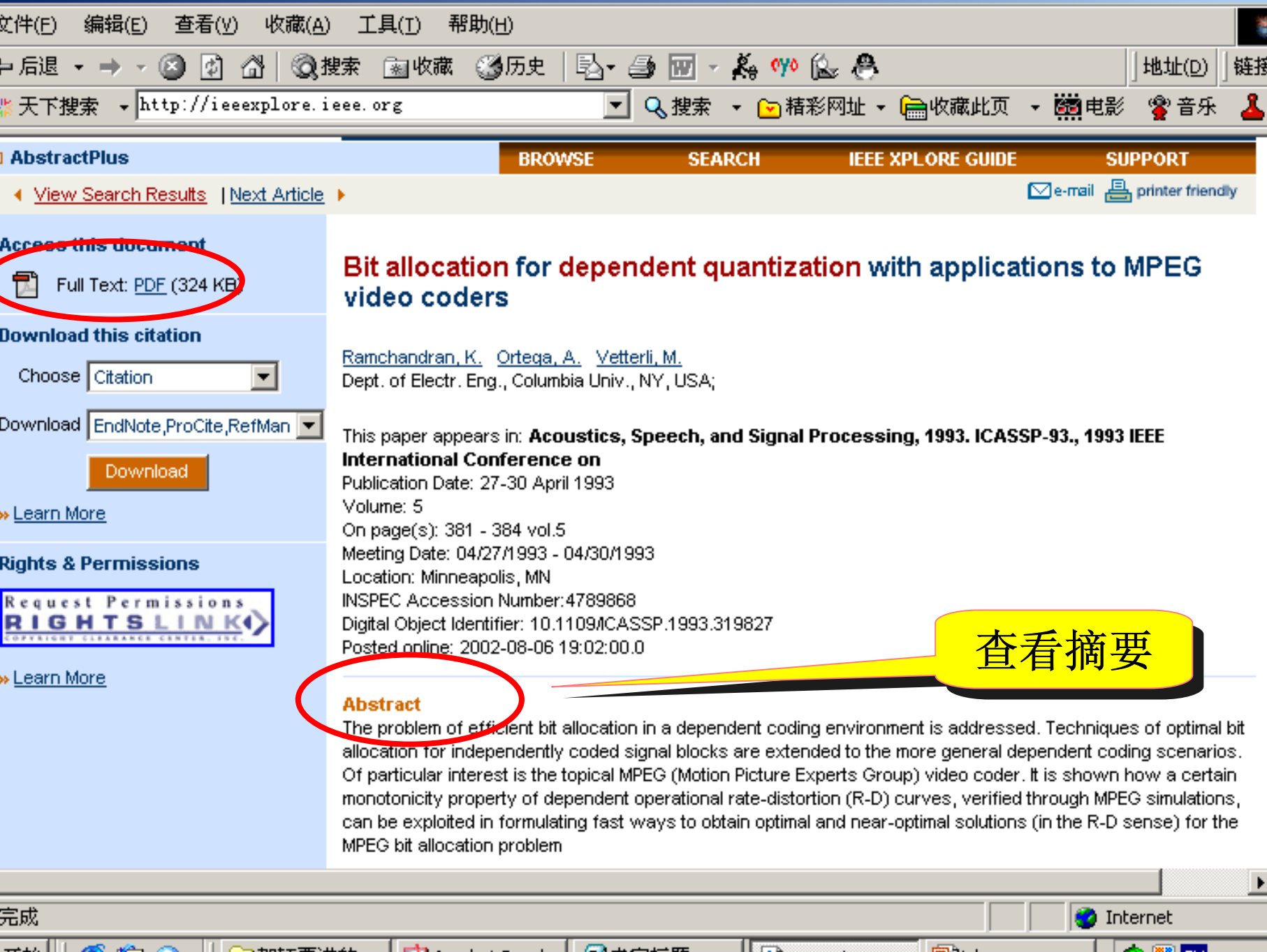
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Summary: We discuss formulations to solve the bit-allocation problem with dependencies. These



Author Keywords

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References

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Citing Documents

- 1 Rate control of MPEG video coding and recording by rate-quantization modeling, Wei Ding; Bede Liu
Circuits and Systems for Video Technology, IEEE Transactions on
On page(s): 12-20, Volume: 6, Issue: 1, Feb 1996
[Abstract](#) | Full Text: [PDF](#) (820)
- 2 Object-oriented H.263 compatible video coding platform for conferencing applications, Hartung, J.; Jacquin, A.; Pawlyk, J.; Rosenberg, J.; Okada, H.; Crouch, P.E.
Selected Areas in Communications, IEEE Journal on
On page(s): 42-55, Volume: 16, Issue: 1, Jan 1998
[Abstract](#) | Full Text: [PDF](#) (284)
- 3 Wavelet video coding with dependent optimization, Lin, K.K.; Gray, R.M.
Circuits and Systems for Video Technology, IEEE Transactions on
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Ramchandran, K. Ortega, A. Vetterli, M.
Dept. of Electr. Eng., Columbia Univ., NY, USA;

This paper appears in: **Acoustics, Speech, and Signal Processing, 1993. ICASSP-93., 1993 IEEE International Conference on**
Publication Date: 27-30 April 1993
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Meeting Date: 04/27/1993 - 04/30/1993
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BIT ALLOCATION FOR DEPENDENT QUANTIZATION WITH APPLICATIONS TO MPEG VIDEO CODERS

Kannan Ramchandran*

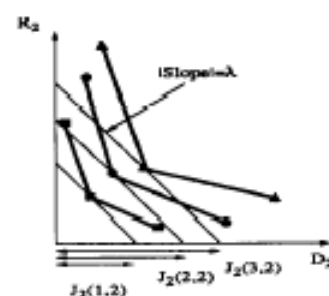
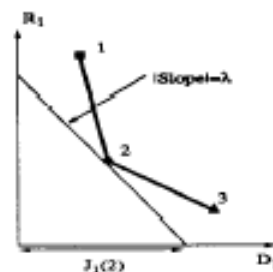
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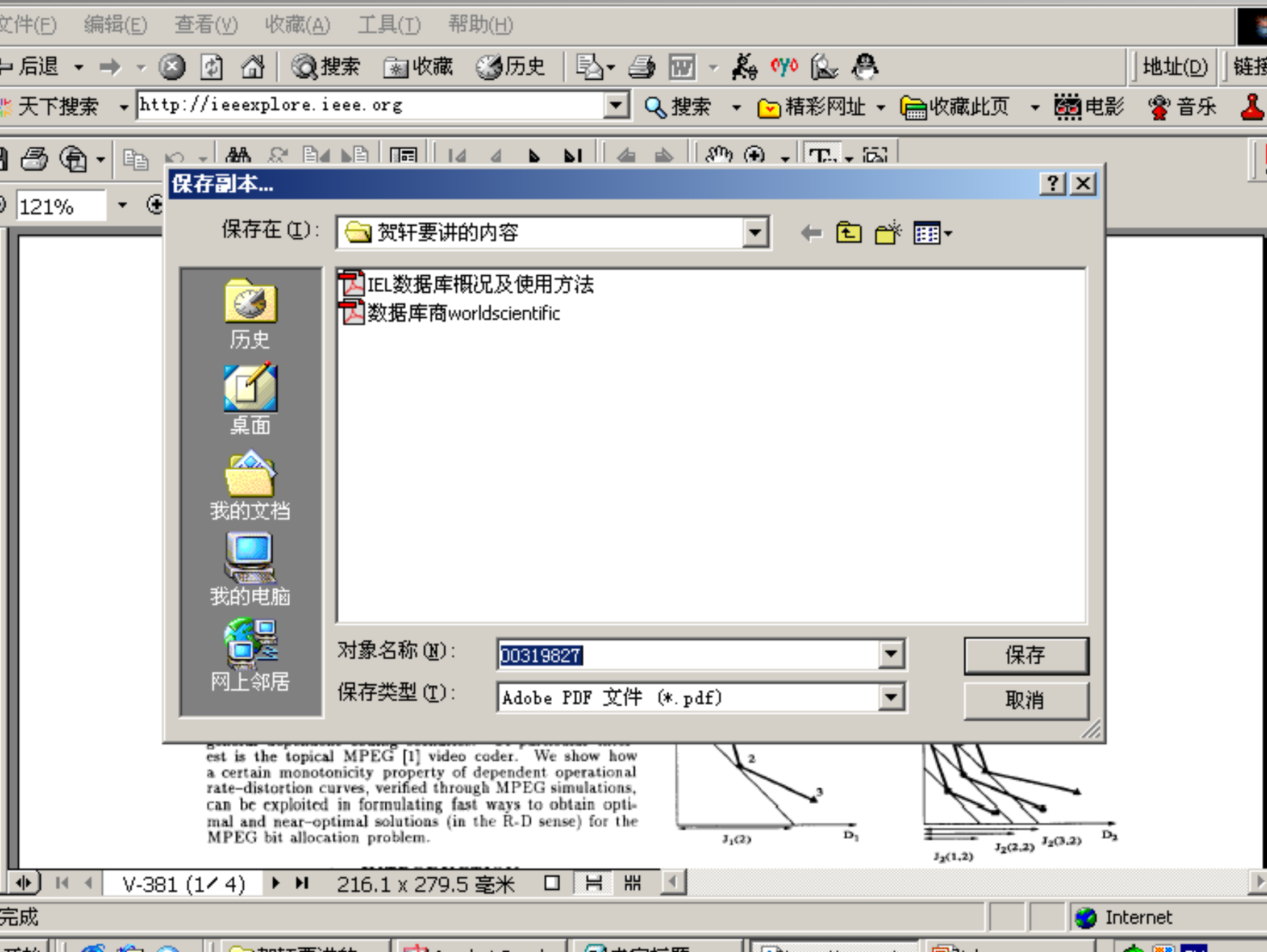
Martin Vetterli[‡]

Department of Electrical Engineering
and Center for Telecommunications Research,
Columbia University, New York.

ABSTRACT

We address the problem of efficient bit allocation in a dependent coding environment. While optimal bit allocation for independently coded signal blocks has been studied in the literature, we extend these techniques to the more general dependent coding scenarios. Of particular interest is the topical MPEG [1] video coder. We show how a certain monotonicity property of dependent operational rate-distortion curves, verified through MPEG simulations, can be exploited in formulating fast ways to obtain optimal and near-optimal solutions (in the R-D sense) for the MPEG bit allocation problem.





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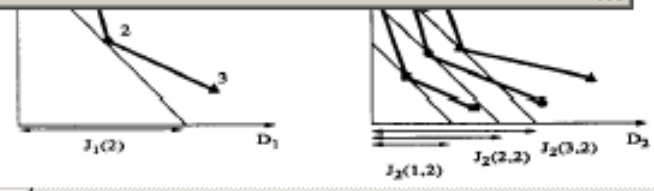
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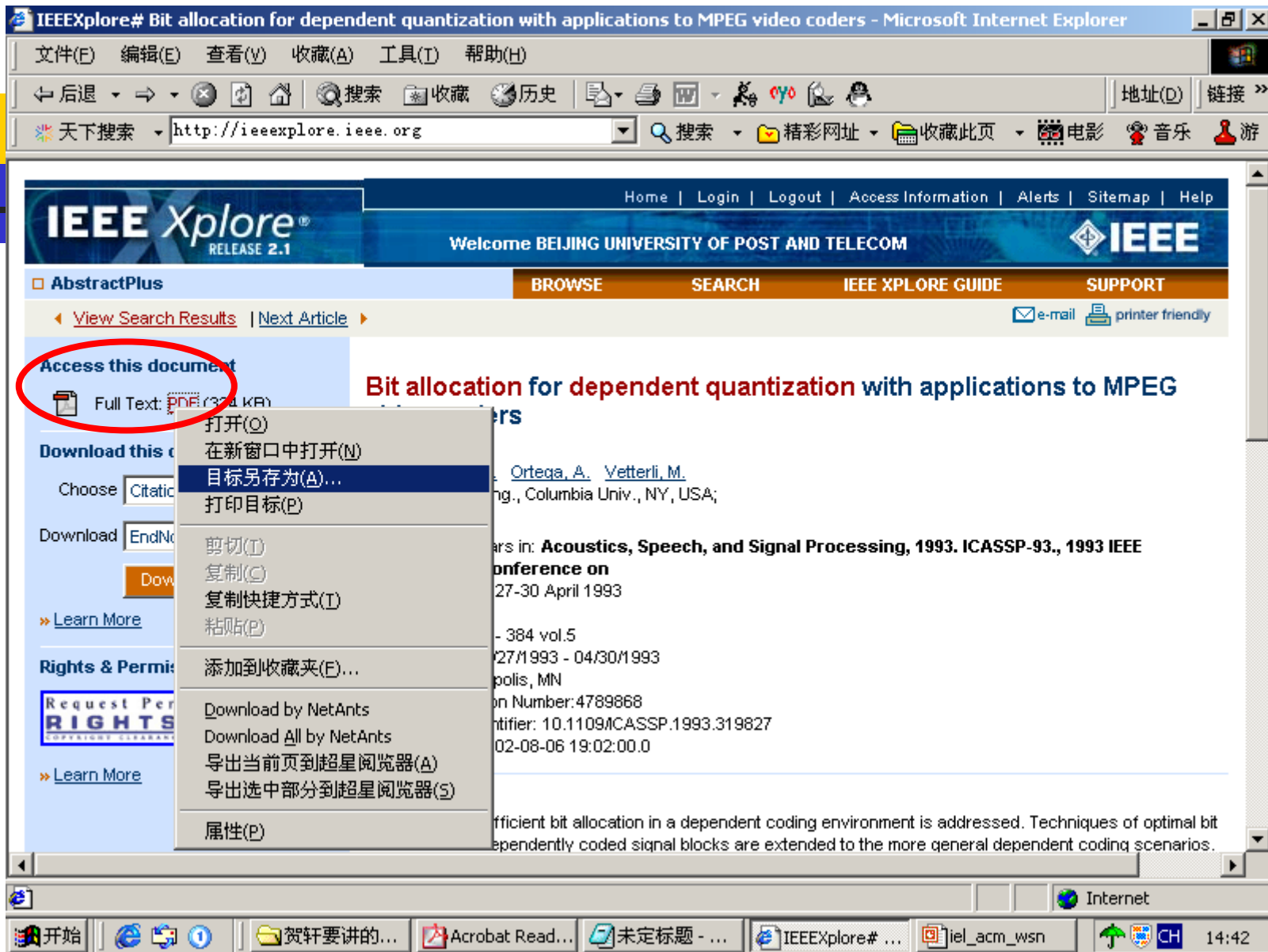
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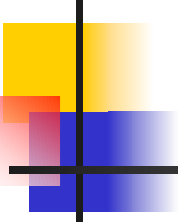
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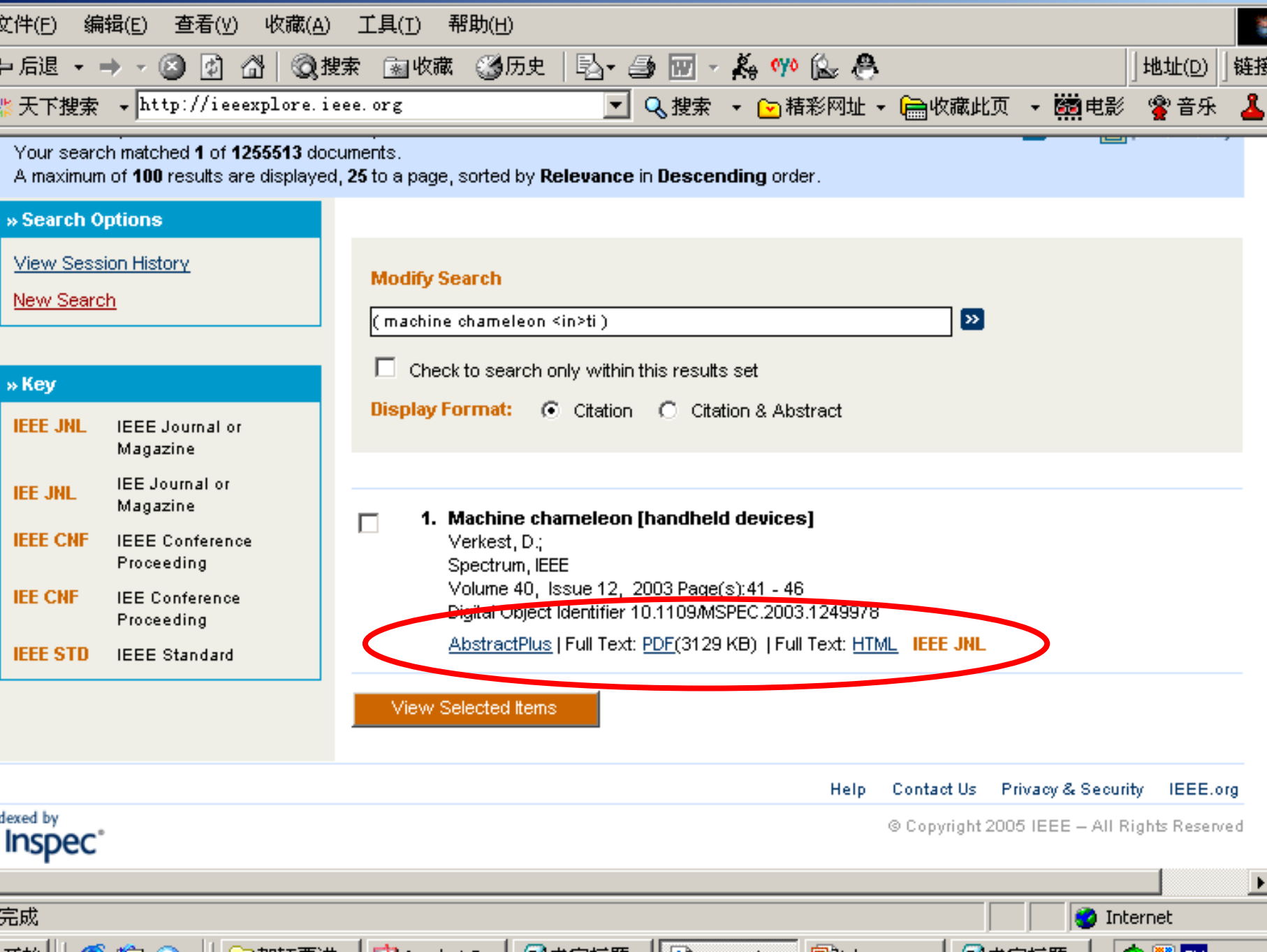
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Verkest, D.;
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million cellphones and another mountain of old PDAs, MP3 players, and game consoles. We could, of course, build bigger landfills to accommodate the billions of obsolete gizmos we throw away each year. But here's a much better idea: building a wireless multimedia device whose hardware and software can be easily altered or upgraded so it never becomes obsolete. When a new communications standard or multimedia format comes along, the device could be made to conform to it simply by downloading circuit and software modifications.

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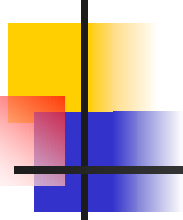
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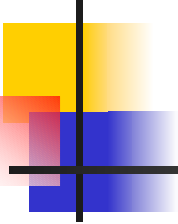
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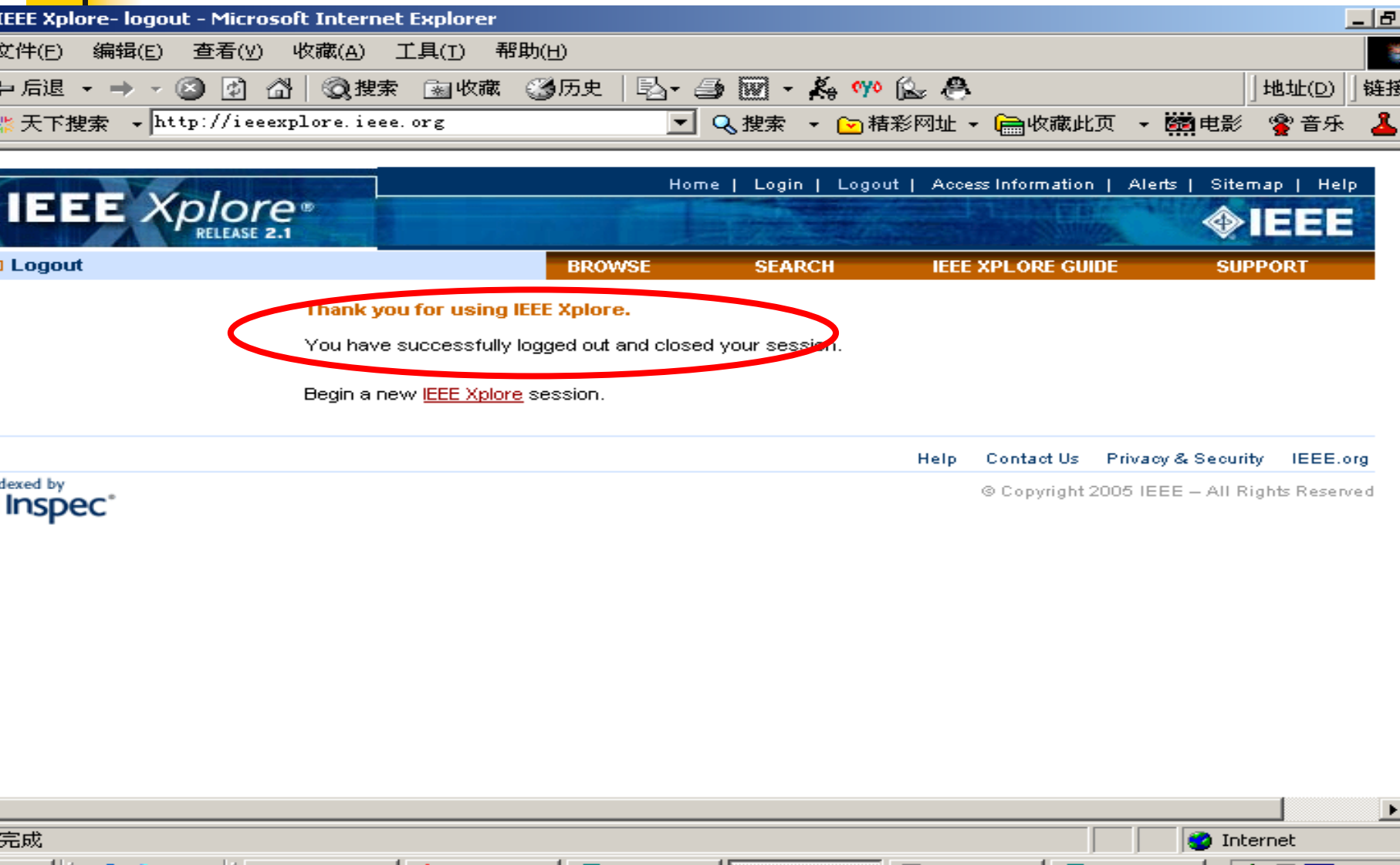
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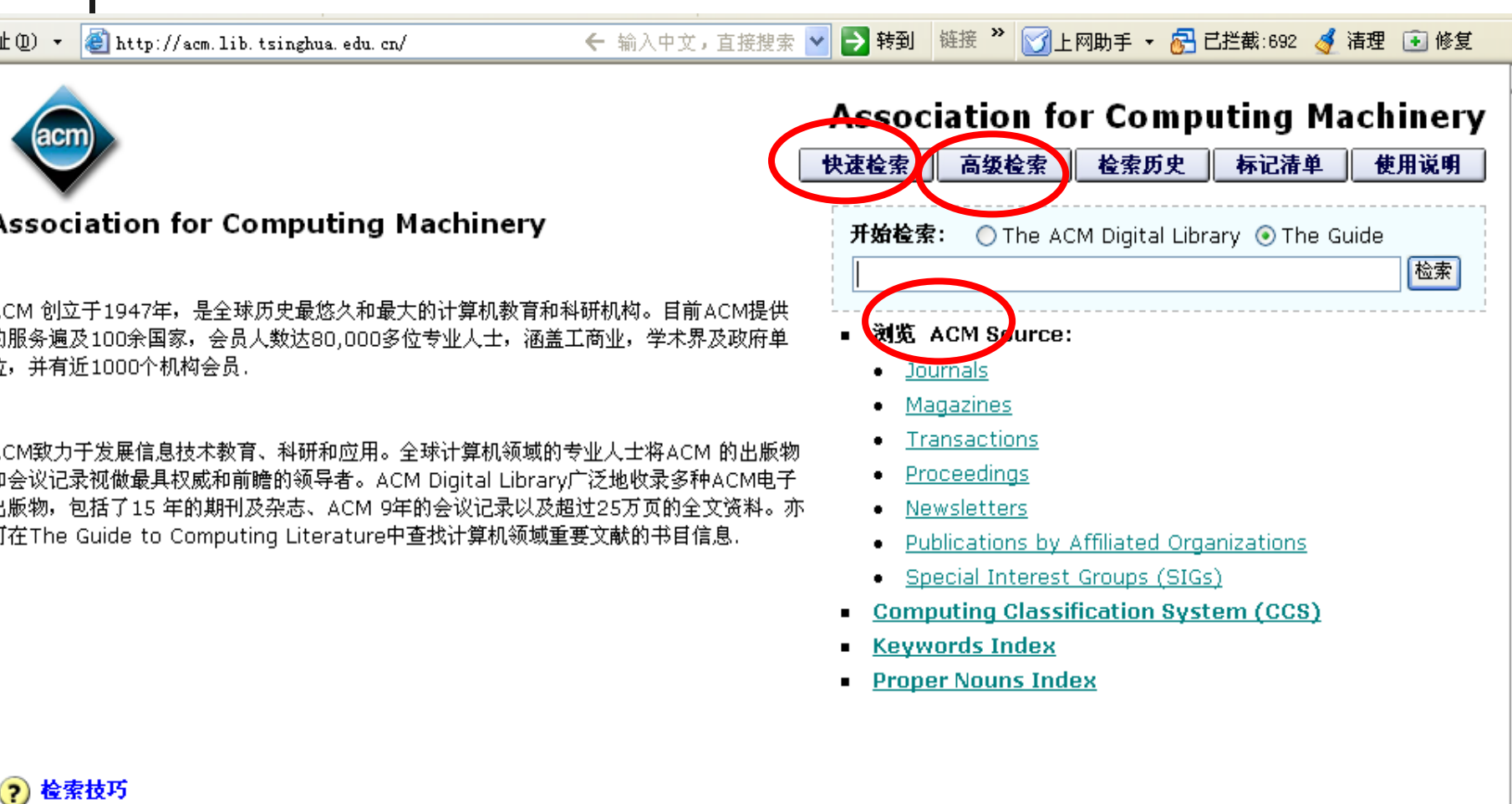
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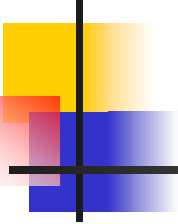
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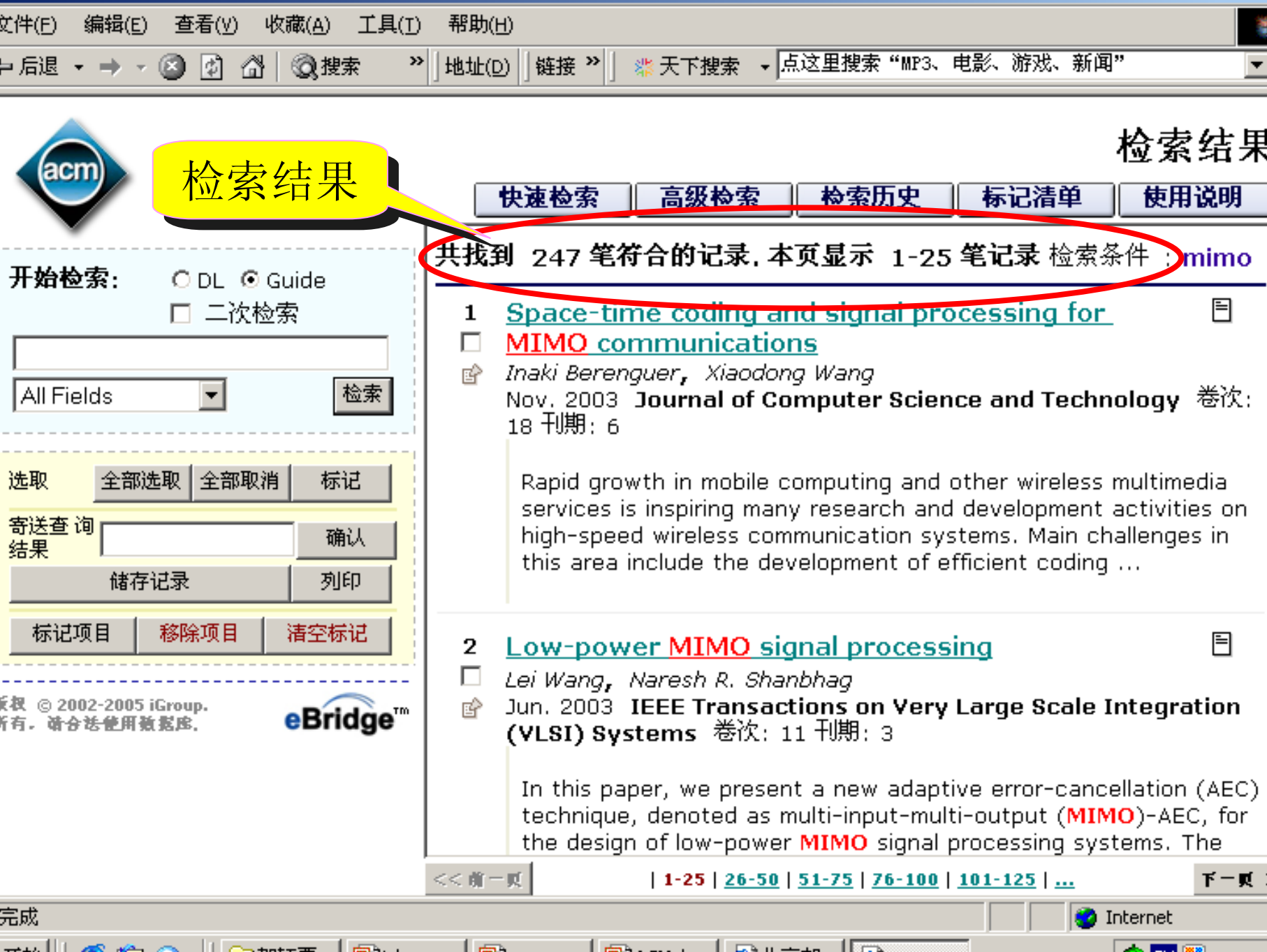
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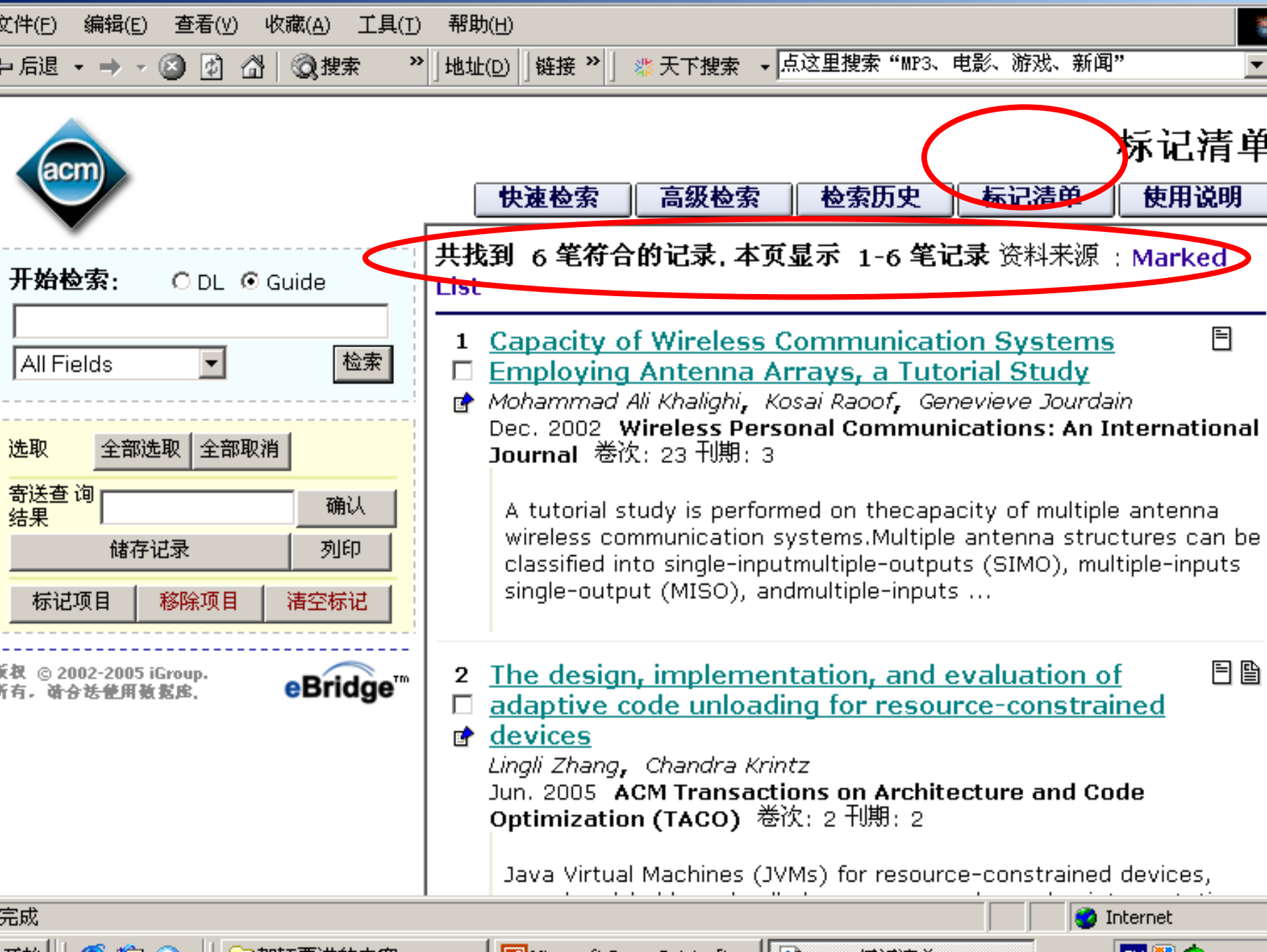
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Smart antennas represent a broad variety of antennas that differ in their performance and transceiver complexity. The superior capabilities of smart antennas, however, can be leveraged only through appropriately designed higher layer network ...

- 2 [Modeling wireless shadow networks](#)
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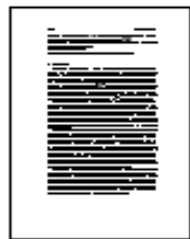


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An Improved Exponential-Time Algorithm for k -SAT

RAMAMOCHAN PATURI

University of California San Diego, La Jolla, California

PAVEL PUDLÁK

Mathematical Institute, Academy of Sciences, Prague, Czech Republic

MICHAEL E. SAKS

Rutgers University, Piscataway, New Jersey

AND

FRANCIS ZANE

Bell Labs, Lucent Technologies

Abstract. We propose and analyze a simple new randomized algorithm, called *ResolveSat*, for finding satisfying assignments of Boolean formulas in conjunctive normal form. The algorithm consists of two stages: a preprocessing stage in which resolution is applied to enlarge the set of clauses of the formula, followed by a search stage that uses a simple randomized greedy procedure to look for a satisfying assignment. Currently, this is the fastest known probabilistic algorithm for k -CNF satisfiability for $k \geq 4$ (with a running time of $O(2^{0.5623n})$ for 4-CNF). In addition, it is the fastest known probabilistic algorithm for k -CNF, $k \geq 3$, that have at most one satisfying assignment (unique k -SAT) (with a running time $O(2^{(2 \ln 2 - 1)n + o(n)}) = O(2^{0.386...n})$ in the case of 3-CNF). The analysis of the algorithm also gives an upper bound on the number of the codewords of a code defined by a k -CNF. This is

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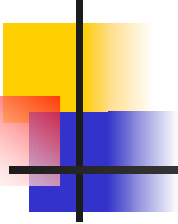
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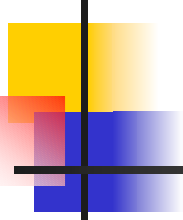
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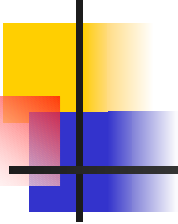


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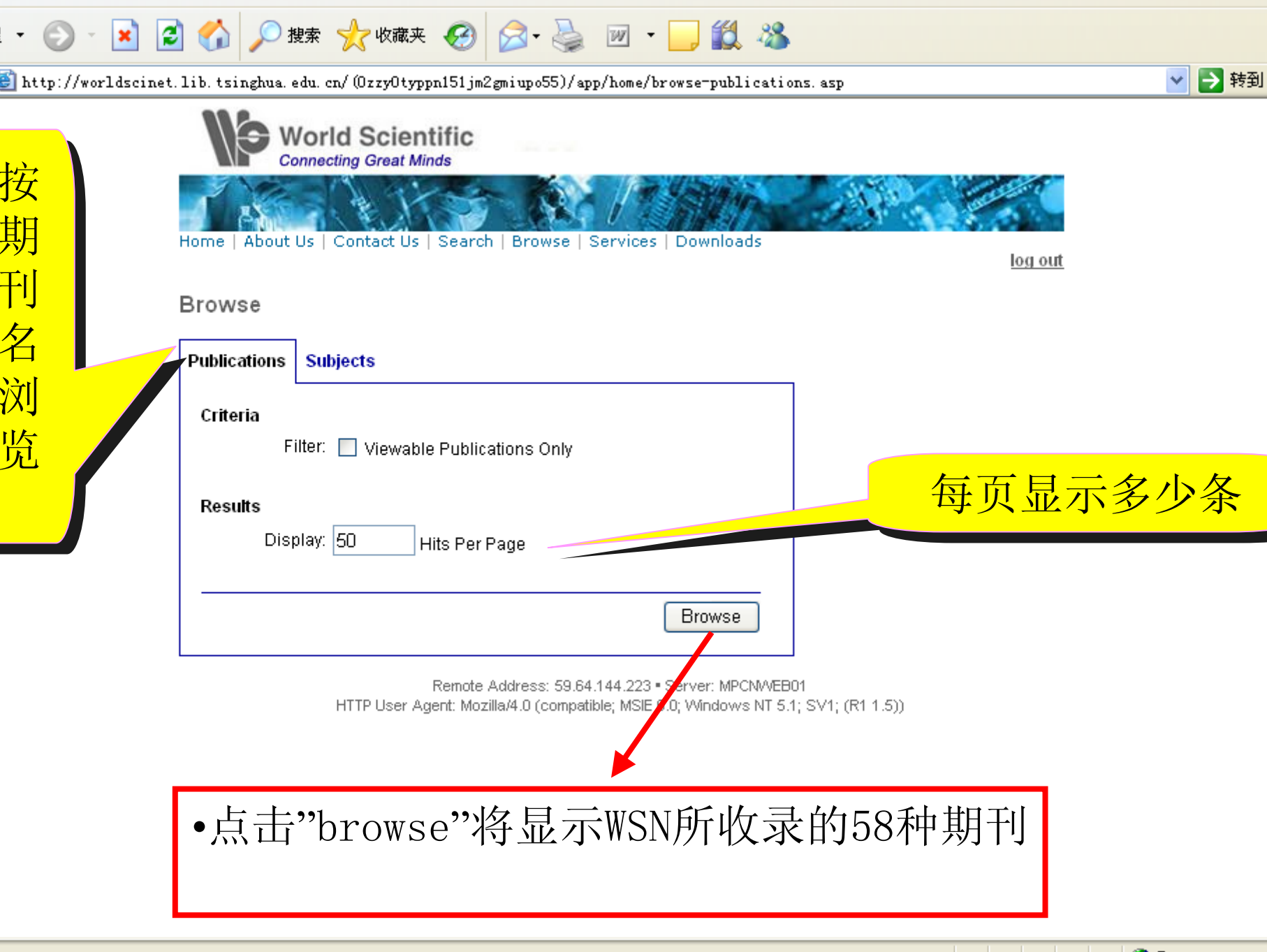
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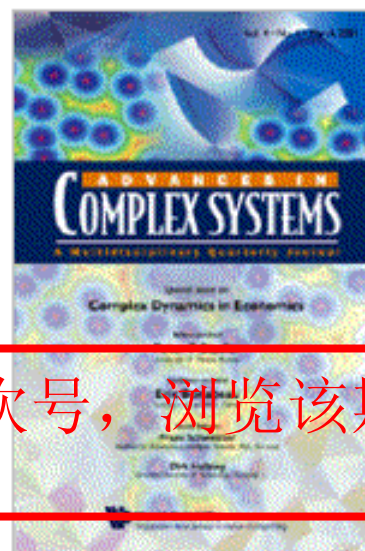
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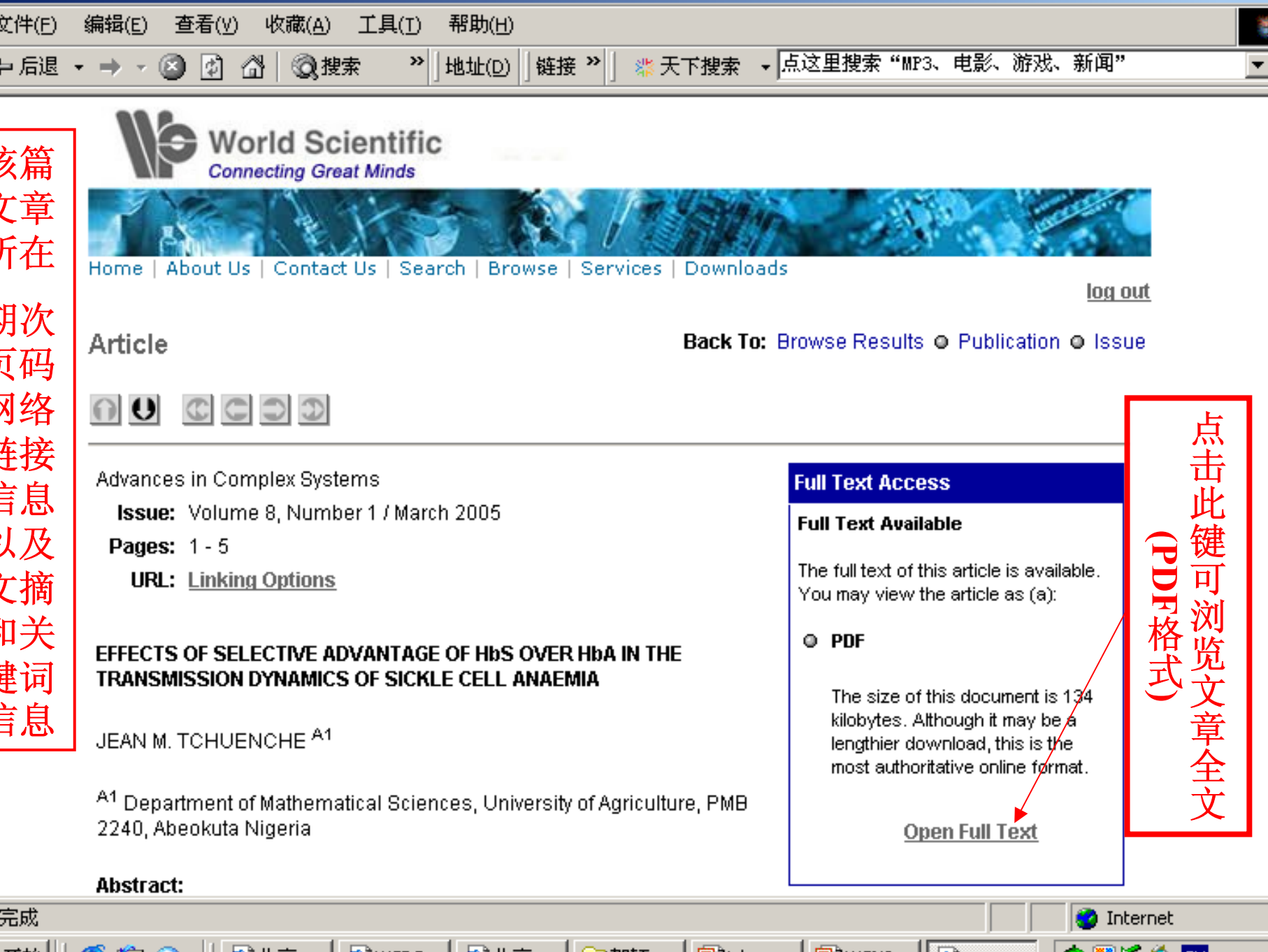
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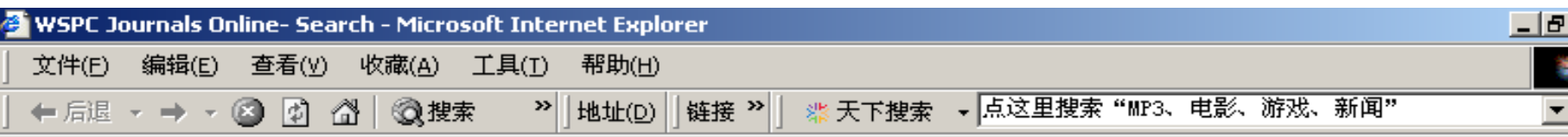
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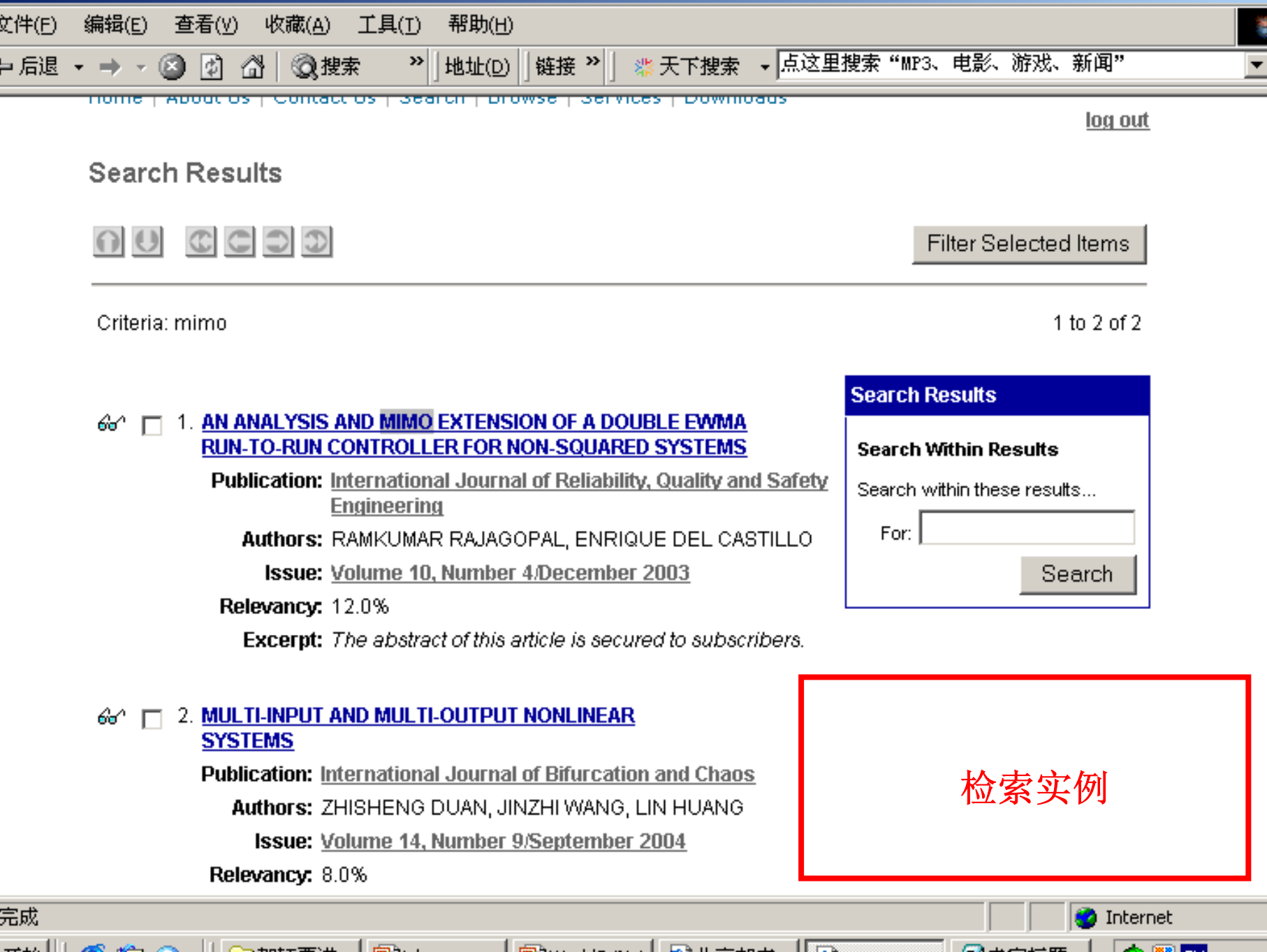
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AN ANALYSIS AND MIMO EXTENSION OF A DOUBLE EWMA RUN-TO-RUN CONTROLLER FOR NON-SQUARED SYSTEMS

RAMKUMAR RAJAGOPAL ^{A1} and ENRIQUE DEL CASTILLO ^{A1}

^{A1} Department of Industrial & Manufacturing Engineering, The Pennsylvania State University, University Park, PA 16802 USA

Abstract:

The double EWMA (exponentially weighted moving average) control method is a popular algorithm for adjusting a process from run to run in semiconductor manufacturing. Until recently, the dEWMA controller had been applied only for the single controller (single feedback) single quality

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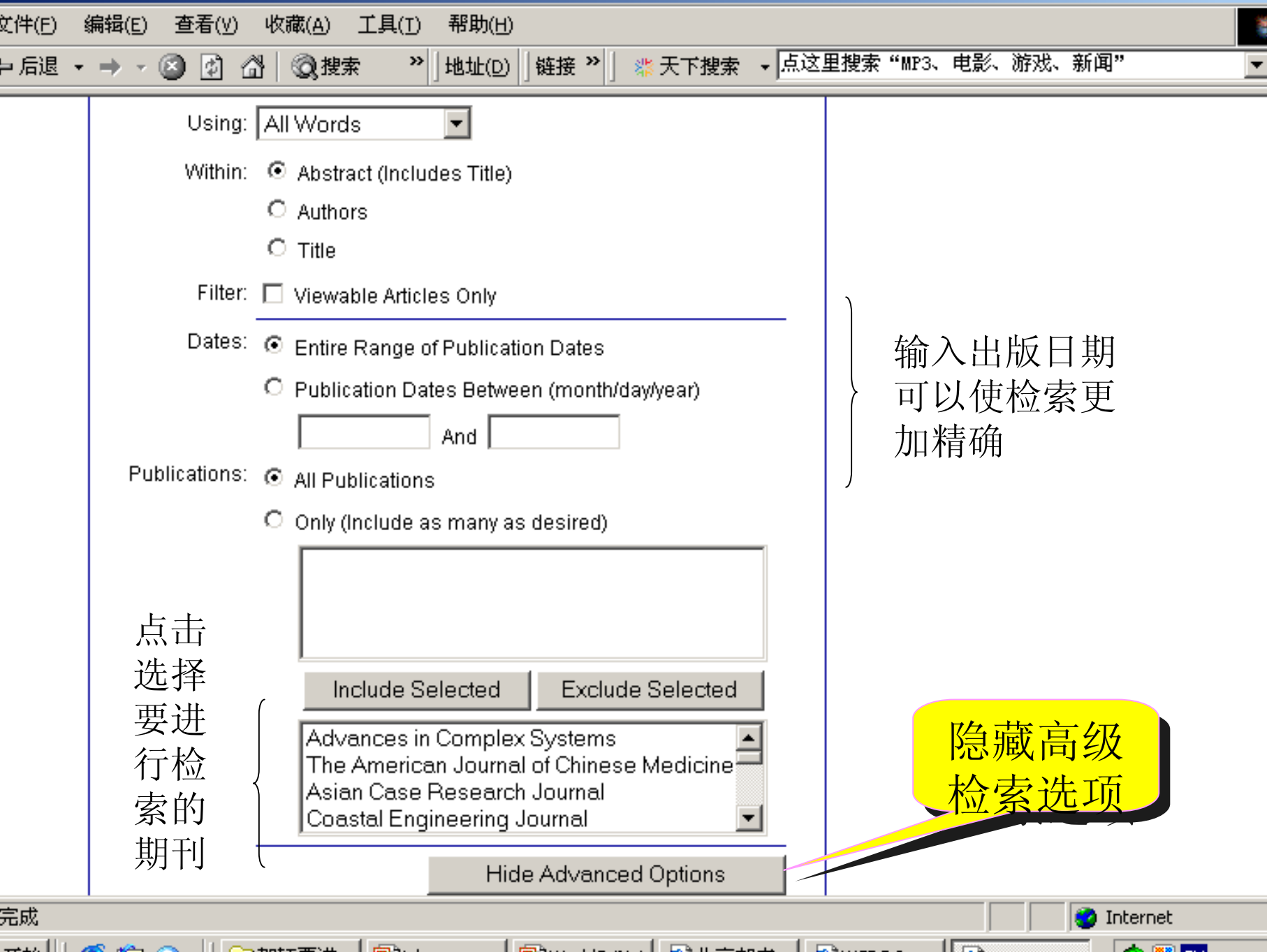
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Institut de Robòtica i Informàtica Industrial (CSIC-UPC)

Parc Tecnològic de Barcelona - Edifici U

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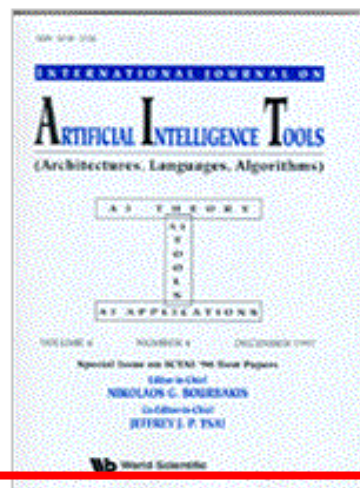
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