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1. ACM出版社

- 1.1 Association of Computing Machinery (简称ACM,美国计算机学会), 创立于1947年, 是世界上最大的科学性 & 教育性计算机学术机构。
 - 拥有会员10万多名, 遍布全球100多个国家。
 - ACM International Collegiate Programming Contest (ACM-ICPC或ICPC) (ACM国际大学生程序设计竞赛)

1. ACM出版社

1.2 ACM设立的奖项

	奖项	授予原因	奖金额度	赞助方
1	A.M. Turing Award	计算机领域带来深远影响的人	100万美元	Google Inc.
2	Software System Award	对软件系统有持续影响力的人	35000美元	IBM
3	Grace Murray Hopper Award	某个技术上的巨大贡献者，年龄不大与35岁	35000美元	Microsoft

1. ACM出版社

- **1.3 Meeting** --每年主办**170**多场会议，其中会议内容包括计算机图像处理、数据通信、知识发现和数据挖掘、软件工程、人机交互以及信息安全，每场会议都会出版相关会议录。
- **1.4 Special Interest Groups** -- 根据计算机领域的每项专业设有**37**个特别兴趣组(**SIGs**)，针对其不同的研究方向有**68**种相应的出版物。

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- **Guide to Computing Literature -- 文摘数据库**

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Publisher: Association for Computational Linguistics

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Verification of a Cryptographic Primitive: SHA-256

ANDREW W. APPEL, Princeton University

This article presents a full formal machine-checked verification of a C program: the OpenSSL implementation of SHA-256. This is an interactive proof of functional correctness in the Coq proof assistant, using the Verifiable C program logic. Verifiable C is a separation logic for the C language, proved sound with respect to the operational semantics for C, connected to the CompCert verified optimizing C compiler.

Categories and Subject Descriptors: D.2.4 [Software/Program Verification]: Correctness Proofs; E.3 [Data Encryption]: Standards; F.3.1 [Specifying and Verifying and Reasoning about Programs]

General Terms: Verification

Additional Key Words and Phrases: Cryptography

ACM Reference Format:

Andrew W. Appel. 2015. Verification of a cryptographic primitive: SHA-256. ACM Trans. Program. Lang. Syst. 37, 2, Article 7 (April 2015), 31 pages.

DOI: <http://dx.doi.org/10.1145/2701415>

1. INTRODUCTION

[C]ryptography is hard to do right, and the only way to know if something was done right is to be able to examine it. ... This argues very strongly for open source cryptographic algorithms. ... [But] simply publishing the code does not automatically mean that people will examine it for security flaws.

Bruce Schneier [1999]

Be suspicious of commercial encryption software. ... [because of] back doors. ... Try to use public-domain encryption that has to be compatible with other implementations. ..."

Bruce Schneier [2013]

Schneier is saying to use widely used, well-examined open-source implementations published, nonproprietary, widely used, well-examined, standard algorithms—“many eyes make all bugs shallow” works only if there are many eyes paying

To this I add: use implementations that are *formally verified with machine-checked proofs* of functional correctness, of side-channel resistance, of information-flow prop-

7

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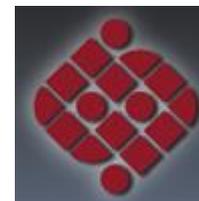
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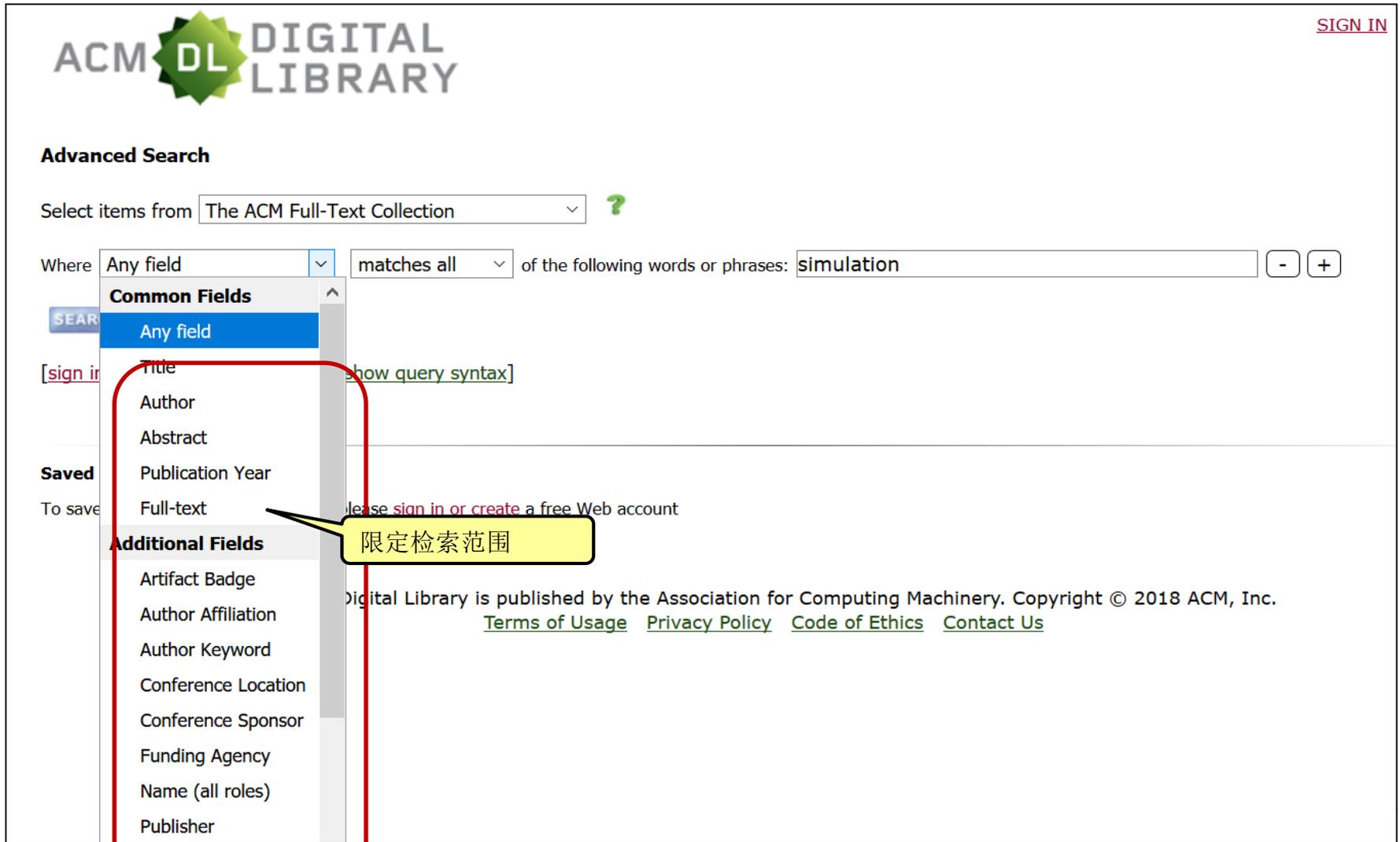
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AAMAS: Autonomous Agents and Multiagent Systems	AAMAS: 自治代理和多代理系统
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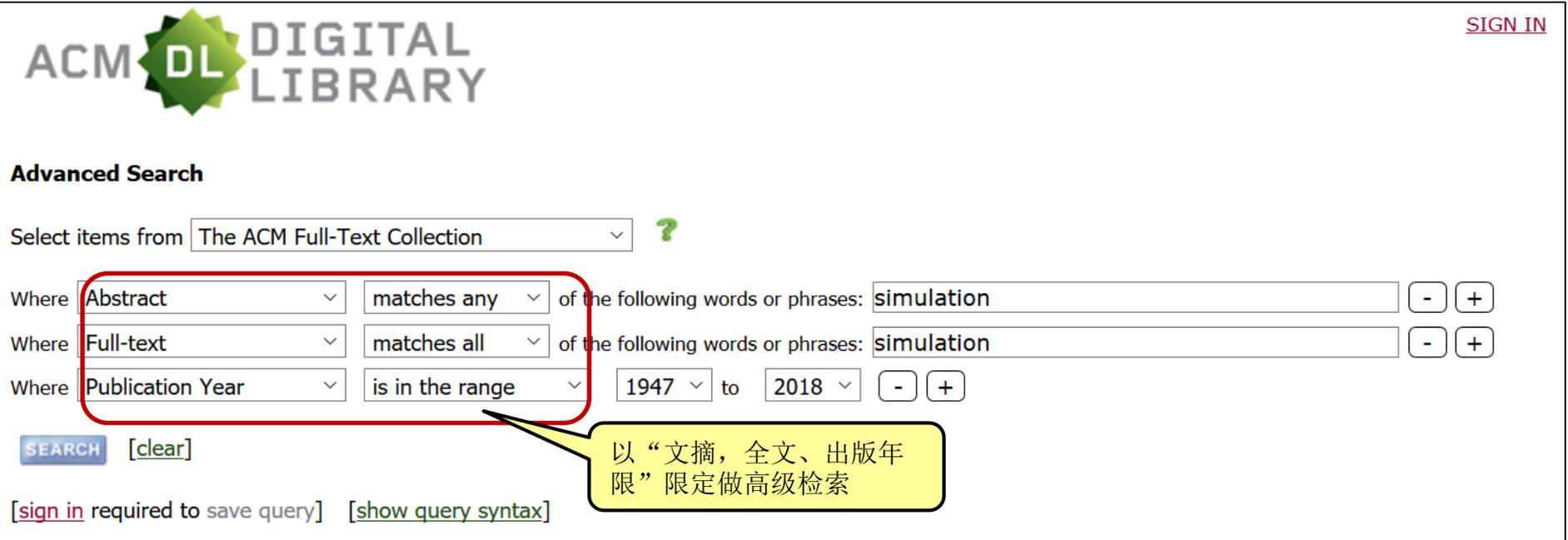
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The Internet key exchange (IKE) protocol is a protocol with which two communication peers can authenticate each other, get a new shared key and build IPsec SA. It has been widely used in mobile IPv6, router systems, IPv6 VPN and 3G core network elements. IKEv2 significantly improves the communication efficiency and security when compared with IKEv1. This article introduces the IKEv2's mechanism, particularly compares the security of IKEv1 and IKEv2.

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Ning-ning Lu, Hua-chun Zhou, Hong-ke Zhang
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[Source Address Validation Scheme](#)
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Passport is a new secure and adoptable source address validation technique, which has attracted fully attention. In this article, we research into the efficiency of Passport. First of all, we build a mathematical model to describe Passport's function, ...

Keywords: source address validation, source address spoofing, effectiveness, Passport, Brite

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