建议读的论文

总体要求

1. 需和安全与隐私相关
2. 建议从顶级会议上寻找论文
3. 需要有一定的深度
4. 演讲时间为 20 分钟
5. 根据演讲内容、表现、技术性等指标，评分为 0-50 分

推荐会议：

安全方面的会议：IEEE S&P, ACM CCS, USENIX Security, NDSS

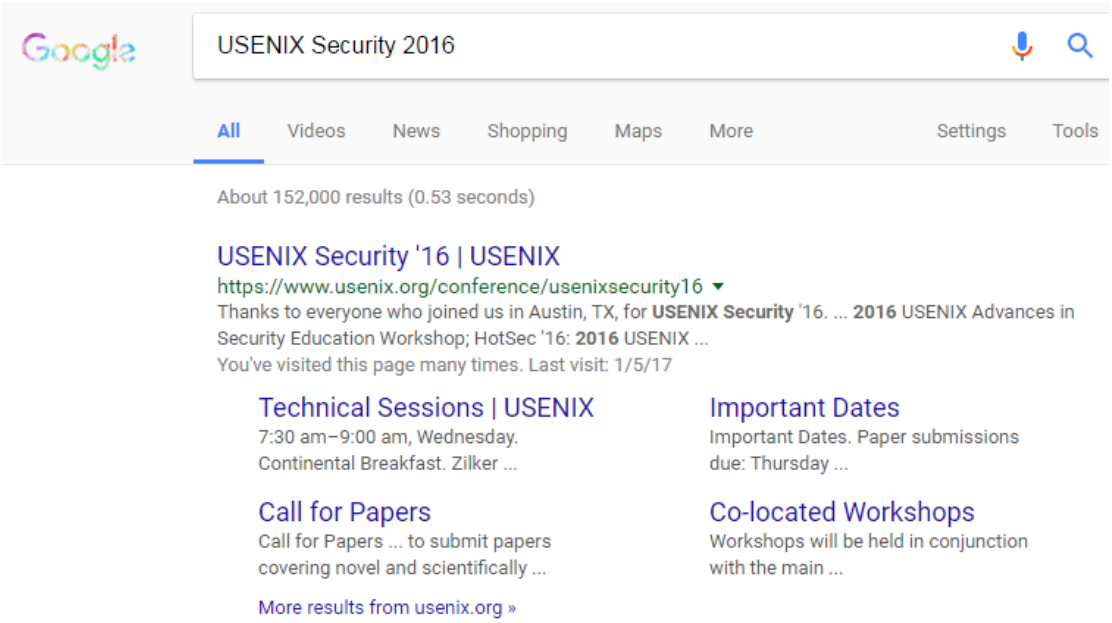
数据、库数据挖掘、信息检索：KDD, WWW, SIGIR, SIGMOD, VLDB, ICDE

网络：ACM SIGCOMM, ACM MOBICOM, IEEE INFOCOM

其他领域请参见“中国计算机学会推荐国际学术会议和期刊目录”（http://www.ccf.org.cn/c/2016-12-27/569124.shtml）中的 A 类会议。

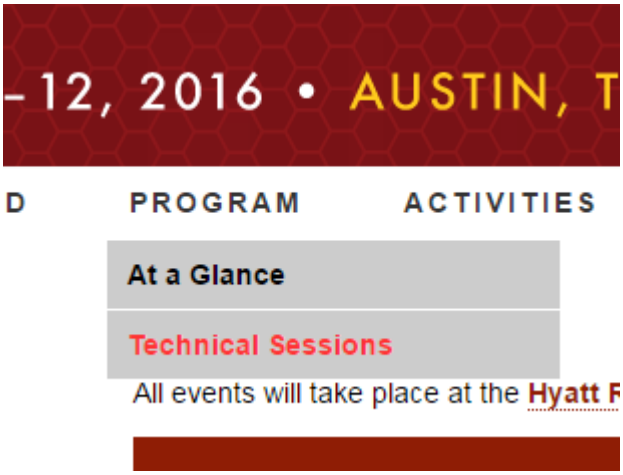
论文检索办法（以 USENIX Security 为例）：

1. 上述会议一般每年召开一次，但召开的月份可能不同，USENIX Security 通常于每年 8 月份召开，地点一般在美国的某个城市
2. 以检索 2016 年（也可以是 2015、2014 等）的 USENIX Security 会议论文为例：在 Google 中输入 USENIX Security 2016，如下图：



3. 点击进入 USENIX Security’16，会看到：

4. 点击 Program，选择 Technical Sessions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PROGRAM
ACTIVITIES
At a Glance
Technical Sessions
All events will take place at the Hyatt F

5. 你会看到：

Technical Sessions

The full Proceedings published by USENIX for the conference are available for download below. Individual papers can also be downloaded from the presentation page. Copyright to the individual works is retained by the author[s].

Proceedings Front Matter

Proceedings Cover | Title Page and List of Organizers | Table of Contents | Message from the Program Co-Chairs

Full Proceedings PDFs

USENIX Security '16 Full Proceedings (PDF)
USENIX Security '16 Proceedings Interior (PDF, best for mobile devices)
USENIX Security '16 Proceedings Errata Slip (PDF)
USENIX Security '16 Proceedings Errata Slip 2 (PDF) (11/17/16)

Full Proceedings ePub (for iPad and most eReaders)

USENIX Security '16 Full Proceedings (ePub)

Full Proceedings Mobi (for Kindle)

USENIX Security '16 Full Proceedings (Mobi)

Downloads for Registered Attendees

USENIX Security '16 Attendee List (PDF)
USENIX Security '16 Proceedings Archive (7z)

All sessions will take place at the Hyatt Regency Austin.

Wednesday, August 10, 2016

7:30 am–9:00 am Wednesday

Continental Breakfast

Zilker Ballroom Foyer

8:25 am–8:45 am Wednesday

Daily Lightning Talks

Zilker Ballroom 2–4

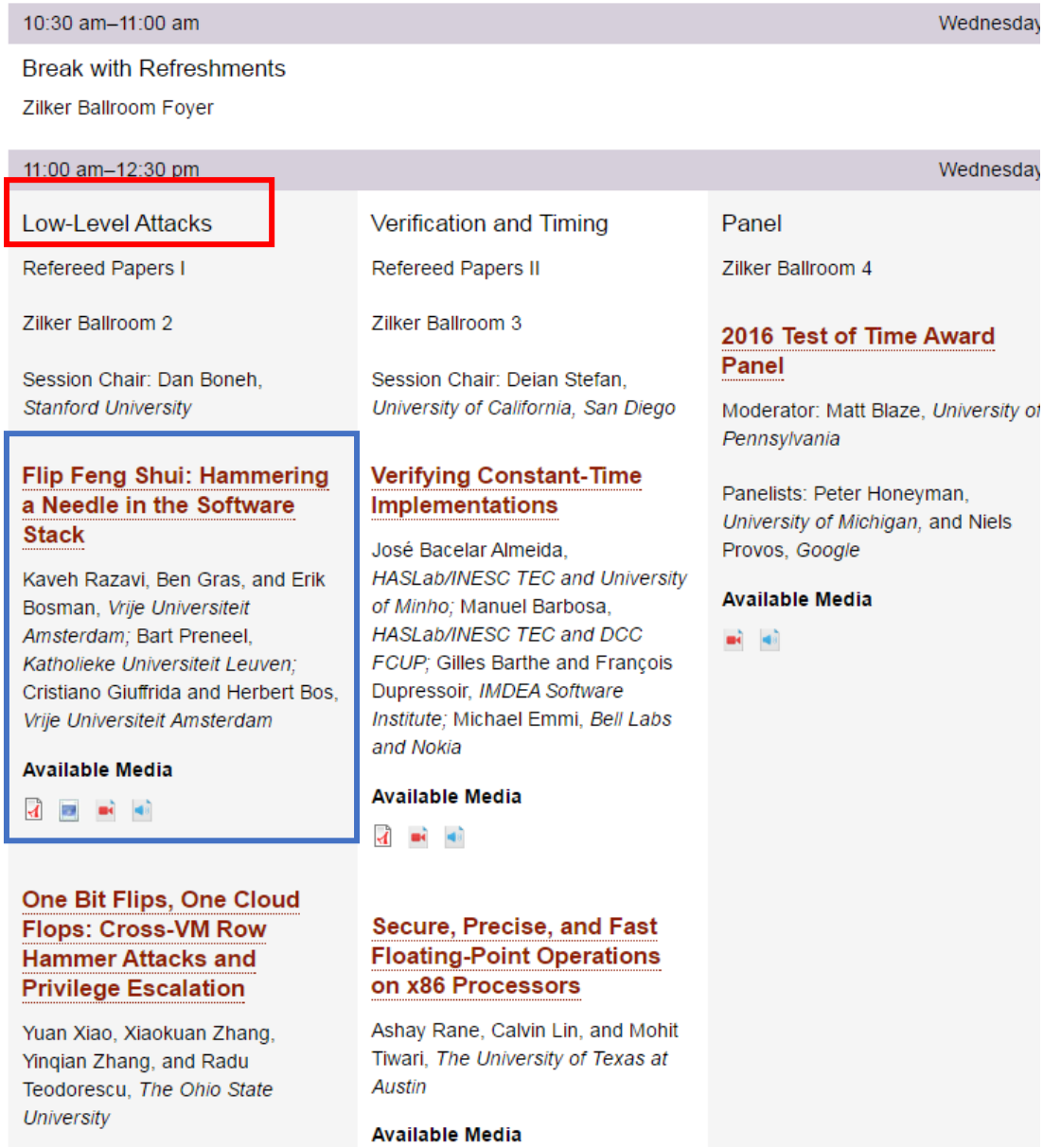
We begin each day with a lightning talks session, offering a 60-second preview of the papers to be presented on the day. For authors, it's an opportunity to provide more reasons why people should come to your talk. For attendees, it's an opportunity to hear an elevator pitch for the papers you will have to miss today.

8:45 am–9:00 am Wednesday

Opening Remarks and Awards

Zilker Ballroom 2–4

6. 往下拖动鼠标，你会看到如下。其中红框里是 Session 的主题（也就是这个 Session 里的文章的主题，方便你选择和参考），篮框里是论文题目和作者。



10:30 am–11:00 am Wednesday

Break with Refreshments

Zilker Ballroom Foyer

11:00 am–12:30 pm Wednesday

Low-Level Attacks

Refereed Papers I

Zilker Ballroom 2

Session Chair: Dan Boneh, *Stanford University*

Flip Feng Shui: Hammering a Needle in the Software Stack

Kaveh Razavi, Ben Gras, and Erik Bosman, *Vrije Universiteit Amsterdam;* Bart Preneel, *Katholieke Universiteit Leuven;* Cristiano Giuffrida and Herbert Bos, *Vrije Universiteit Amsterdam*

Available Media

One Bit Flips, One Cloud Flops: Cross-VM Row Hammer Attacks and Privilege Escalation

Yuan Xiao, Xiaokuan Zhang, Yinqian Zhang, and Radu Teodorescu, *The Ohio State University*

Verification and Timing

Refereed Papers II

Zilker Ballroom 3

Session Chair: Deian Stefan, *University of California, San Diego*

Verifying Constant-Time Implementations

José Bacelar Almeida, *HASLab/INESC TEC and University of Minho;* Manuel Barbosa, *HASLab/INESC TEC and DCC FCUP;* Gilles Barthe and François Dupressoir, *IMDEA Software Institute;* Michael Emmi, *Bell Labs and Nokia*

Available Media

Secure, Precise, and Fast Floating-Point Operations on x86 Processors

Ashay Rane, Calvin Lin, and Mohit Tiwari, *The University of Texas at Austin*

Available Media

Panel

Zilker Ballroom 4

2016 Test of Time Award Panel

Moderator: Matt Blaze, *University of Pennsylvania*

Panelists: Peter Honeyman, *University of Michigan,* and Niels Provos, *Google*

Available Media

7. 点击每篇文章，你会看到具体的细节如下：论文题目、摘要等。有的会议还题目了论文下载链接、Slides、演讲视频等。如果未提供论文下载链接，请自行搜索下载。通常，也可到作者主页里去下载论文和 Slides。建议经常看论文作者主页，通常里面有很多相关论文及资源。

Flip Feng Shui: Hammering a Needle in the Software Stack

Authors:

Kaveh Razavi, Ben Gras, and Erik Bosman, *Vrije Universiteit Amsterdam;* Bart Preneel, *Katholieke Universiteit Leuven;* Cristiano Giuffrida and Herbert Bos, *Vrije Universiteit Amsterdam*

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Abstract:

We introduce Flip Feng Shui (FFS), a new exploitation vector which allows an attacker to induce bit flips over *arbitrary* physical memory in a *fully controlled way.* FFS relies on hardware bugs to induce bit flips over memory and on the ability to surgically control the physical memory layout to corrupt attacker-targeted data anywhere in the software stack. We show FFS is possible today with very few constraints on the target data, by implementing an instance using the *Rowhammer bug* and *memory deduplication* (an OS feature widely deployed in production). Memory deduplication allows an attacker to reverse-map any physical page into a virtual page she owns as long as the page's contents are known. Rowhammer, in turn, allows an attacker to flip bits in controlled (initially unknown) locations in the target page.

We show FFS is extremely powerful: a malicious VM in a practical cloud setting can gain unauthorized access to a co-hosted victim VM running OpenSSH. Using FFS, we exemplify end-to-end attacks breaking OpenSSH public-key authentication, and forging GPG signatures from trusted keys, thereby compromising the Ubuntu/Debian update mechanism. We conclude by discussing mitigations and future directions for FFS attacks.

Presentation Video

[redacted]