

Project补充说明



希望大家关注的问题

- 这不仅仅是个工程项目
- 通过以此来训练**研究性思维**
- 别人做过些什么？有什么问题？
- 在哪里改进？性能如何？
- 性能：
 - 自身性能：正确率，吞吐率，并发率，时延
 - 比较性能：其他算法，其他系统
- 多用开源框架
- 完成好的团队继续向论文和专利培养
- 打分充分考虑团队整体贡献和每个队员的贡献

Survey

- ❑ How BIG the data can be? Why privacy becomes an issue?
- ❑ Data collection:
 - Security for sensor networks
 - Security for machine-to-machine (M2M) communications
- ❑ Data storage
 - Cloud: HDFS/GFS, HBase (MongoDB, BigTable...)
 - Real-time data streaming
 - Public and private cloud
 - Security for Data center networks
- ❑ Data analytics:
 - Framework: MapReduce (private and public cloud)
 - algorithms...
- ❑ Applications
 - IoT: transportation, healthcare...
- ❑ Commercial products: HP, EMC, IBM, Google

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PUBLICATION YEAR

Single Year Range

2011 2013

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Yang, Xin (3)
 Yang, Yahui (3)
 Shen, Qingni (3)

SEARCH RESULTS

You searched for: **hdfs security**
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SAPSC: Security Architecture of Private Storage Cloud Based on HDFS

Qingni Shen ; Yahui Yang ; Zhonghai Wu ; Xin Yang ; Lizhe Zhang ; Xi Yu ; Zhenming Lao ; Dandan Wang ; Min Long
Advanced Information Networking and Applications Workshops (WAINA), 2012 26th International Conference on
Digital Object Identifier: 10.1109/WAINA.2012.80
Publication Year: 2012 , Page(s): 1292 - 1297
IEEE CONFERENCE PUBLICATIONS
 | | Quick Abstract | PDF (309 KB)
| HTML

SecDM: Securing Data Migration between Cloud Storage Systems

Qingni Shen ; Lizhe Zhang ; Xin Yang ; Yahui Yang ; Zhonghai Wu ; Ying Zhang

http://dl.acm.org

Searching for: cloud security ([start a new search](#))

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1 [Benchmarking cloud security level agreements using quantitative policy trees](#)
[Jesus Luna Garcia](#), [Robert Lanzenberg](#), [Neeraj Suri](#)
October 2012 **CCSW '12**: Proceedings of the 2012 ACM Workshop on Cloud computing security workshop
Publisher: ACM [Request Permissions](#)
Full text available: [PDF](#) (956.43 KB)
Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 438, Downloads (Overall): 480, Citation Count: 0

While the many economic and technological advantages of Cloud computing are apparent, the migration of key sector applications onto it has been limited, in part, due to the lack of security assurance on the Cloud Service Provider (CSI). However, ...

Keywords: cloud security, security benchmarks, security level agreements, security metrics, security quantification

2 [All your clouds are belong to us: security analysis of cloud management interfaces](#)
[Juraj Somorovsky](#), [Mario Heiderich](#), [Meiko Jensen](#), [Jörg Schwenk](#), [Nils Gruschka](#), [Luigi Lo Iacono](#)
October 2011 **CCSW '11**: Proceedings of the 3rd ACM workshop on Cloud computing security workshop
Publisher: ACM [Request Permissions](#)
Full text available: [PDF](#) (756.42 KB)
Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 489, Downloads (Overall): 1478, Citation Count: 8

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- Step 1: 分好类别
 - Step 2: 按类别查找文献（有的领域已有survey了）
 - Step 3: 阅读文献
 - 主要贡献（解决了什么问题）
 - 想想不足（Future Work）
 - Step 4: 文献对比（表格）
 - Step 5: 书写

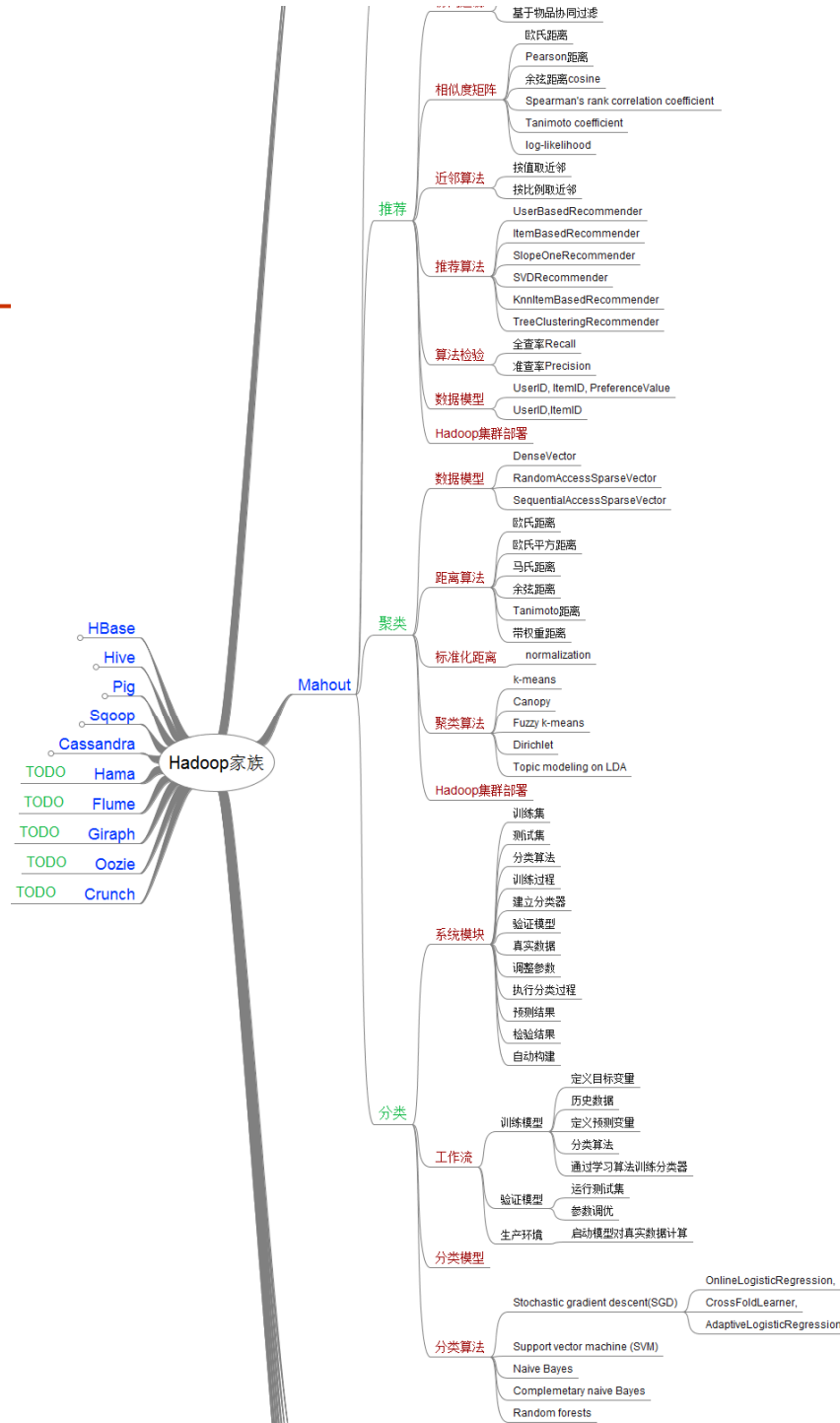
北京7-21暴雨

- 量化社交网络的“时效性、准确性”
 - Social network analysis, <http://pan.baidu.com/s/15UAys>
 - 可视化: Gephi: <https://gephi.org>

- 与传统新闻媒介对比: 报纸、广播、网络等

- 注重存储手段的实践
 - 网络数据提取
 - HDFS+HBase

- 注重分析手段的创新
 - 利用Apache Mahout开源代码



Music Knowledge Mining

- 分析什么?
- 利用云计算
 - 数据存储: HDFS+HBase
 - 并行计算: MapReduce
 - 数据挖掘: Mahout库
 - 先实践, 再看已有算法/架构有什么问题?
- 利用社交网络分析方法
- 分析的结果有没有意义? 出乎意料的结果?
- 能否利用Sketch一类的算法进行**实时**数据分析?
- 并行算法和Sketch算法的比较? 云计算是否是必须?

Video Streaming on the Web

- 系统搭建，利用PaaS
 - Amazon AWS Elastic Beanstalk
 - Google AppEngine
 - VMware Cloudfoundry
 - 只部署Webserver，还是连同数据库？

- 注重性能分析
 - 正确性、缓冲时间（网络延时）、并发（系统容量）