

Tentative course plan – revision 1 (04-01-2006)

Course: Research papers and current topics review

Coordinator: Frode Eika Sandnes

Week 1 4/1

Introduction to the course  
What is research?  
Selecting a topic/paper

Week 2 9/1

Evaluating resources  
Review of proposed papers

Due coursework: find a couple of articles that you consider to present

Week 3 16/1

Research databases and searching – Terje Engdahl  
Review of proposed topics

Due coursework: identify research topics that interests you

Week 4 23/1

Typesetting and formatting with Latex – Simen Hagen  
Review of literature list  
Due coursework: research database search results

Week 5 30/1

Latex start-up issues - discussion  
Presentation 1 : Edson  
Mapping Internet Sensors With Probe Response Attacks  
<http://www.usenix.org/events/sec05/tech/bethencourt.html>  
Presentation 2 : Øyvind Spigseth  
"Designing for disasters"  
<http://www.usenix.org/publications/library/proceedings/fast04/tech/keeton.html>  
Presentation 3: Christer  
Live migration of virtual machines  
[http://www.usenix.org/events/nsdi05/tech/full\\_papers/clark/clark.pdf](http://www.usenix.org/events/nsdi05/tech/full_papers/clark/clark.pdf)

Due coursework: fully working latex sketch of your survey paper

Week 6 6/2

Organising information  
Presentation 1 : Matt  
Combining High Level Symptom Descriptions and Low Level State Information for Configuration Fault Diagnosis. Ni Lao, Ji-rong Wen and Wei-Ying Ma, Yi-Min Wang.  
[http://www.usenix.org/events/lisa04/tech/full\\_papers/lao/lao\\_html/index.html](http://www.usenix.org/events/lisa04/tech/full_papers/lao/lao_html/index.html)  
Presentation 2: Per  
Open Network Administrator (ONA)—A Web-Based Network Management Tool  
<http://www.usenix.org/events/lisa05/tech/campbell.html>  
Presentation 3: Margareth  
Recovering Device Drivers  
[http://www.usenix.org/events/osdi04/tech/swift/swift\\_html/index.html](http://www.usenix.org/events/osdi04/tech/swift/swift_html/index.html)

Due coursework: annotations for chosen papers

Week 7 13/2

Review of information charts

Self-assessment of presentation performance

Presentation 1 : Ingard

Detecting Targeted Attacks Using Shadow Honeypots

<http://www.usenix.org/events/sec05/tech/anagnostakis.html>

Presentation 2 : Karim

Towards a cost model for system administration

<http://usenix.org/events/lisa05/tech/couch.html>

Presentation 3 : Rolf

Understanding Internet Topology: Principles, Models, and Validation

David Alderson, Member, IEEE, Lun Li, Student Member, IEEE, Walter

Willinger, Fellow, IEEE, and

John C. Doyle, Member, IEEE

(IEEE/ACM TRANSACTIONS ON NETWORKING, VOL. 13, NO. 6, DECEMBER 2005)

<http://folk.uio.no/rolfkh/pdf/> )

Due coursework: information charts

Week 8 20/2

Presentation skills – Kyrre Begnum

Presentation 1 : Alex

Presentation 2 : Arild

Gaming:

<http://www.usenix.org/events/imc05/tech/chambers.html>

Presentation 3: Imran

Building resource aware middleware services over MANET for rescue and emergency applications

<http://www.ifi.uio.no/english/research/groups/dmms/papers/142.pdf>

Due coursework: literature survey – rough outline

Week 9 27/2

Plagiarism vs paraphrasing – Olav Talberg

Presentation 1: Edson

Reincarnating PCs with Portable SoulPads

<http://www.usenix.org/events/mobisys05/tech/caceres.html>

Presentation 2 : Matt

Seeking Closure in an Open World: A Behavioral Agent Approach to

Configuration Management. Alva Couch, John Hart, Elizabeth G. Idhaw, and

Dominic Kallas.

[http://www.usenix.org/events/lisa03/tech/full\\_papers/couch/couch\\_html/index.html](http://www.usenix.org/events/lisa03/tech/full_papers/couch/couch_html/index.html)

Due coursework: literature survey – more meat on the bone

Week 10 6/3

The power of the media – Jan Johnsen, LU

Review of first survey draft

Due coursework: 1<sup>st</sup> survey draft (3 copies)

Week 11 13/3

Review of peer review process

Presentation 1: Øyvind Spigseth

”Network-in-a-Box: How to Set Up a Secure Wireless Network in Under a Minute”

<http://www.usenix.org/publications/library/proceedings/sec04/tech/balfanz.html>

Presentation 2 : Per

Cracking the Bluetooth PIN

<http://www.usenix.org/events/mobisys05/tech/shaked.html>

Presentation 3: Imran

Dynamic End-to-End QoS Management Middleware for Distributed Multimedia Systems\*

<http://www.ifi.uio.no/english/research/groups/dmms/papers/11.pdf>

Due coursework: review of 3 papers

Week 12 20/3

Review of second survey draft

Quantitative analysis and statistics – Knut Lehre Seip

Presentation 1 : Ingard

An Open Source Solution for Testing NAT'd and Nested iptables Firewalls

<http://student.iu.hio.no/~s132278/usenix/lisa05/tech/marmorstein.html>

Presentation 2 : Alex

Due coursework: 2<sup>nd</sup> survey draft (3 copies)

Week 13 27/3

Review of second peer review process

Presentation 1 : Karim

Traffic Routing in MPLS Networks Based on Qos Estimation and Forecast

<http://student.iu.hio.no/~s126311/Mplspaper.pdf>

Presentation 2 : Arild

2nd Symposium on Networked Systems Design and Implementation

May 2–4, Boston, MA

Sponsored by USENIX in cooperation with ACM SIGCOMM and ACM SIGOPS

<http://www.usenix.org/publications/library/proceedings/nsdi05/>

Presentation 3: Margareth

An Analysis of Internet Content Delivery Systems

<http://www.usenix.org/events/osdi02/tech/saroiu.html>

Due coursework: review of 3 papers

Week 14 3/4

Final remarks

Presentation 1 : Rolf

Xen and the Art of Virtualization

<http://portal.acm.org/citation.cfm?id=945462&coll=ACM&dl=ACM&CFID=62254634&CFTOKEN=99661290>

Presentation 2 : Christer

Reducing downtime due to system maintenance and upgrades.

<http://www.usenix.org/events/lisa05/tech/potter/potter.pdf>

Due coursework: final manuscript