

Reading Group on: Reliable and Secure System Design

Spring 2005

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Outline

- Introduction of participants
- Achievements from last semester
- Goals for this semester
- Topics to be covered in the reading group

Project List (with name of collaborating colleagues)

1. Ad-hoc wireless networks & sensor networks
 - [1] Security (Ness Shroff)
 - [2] Protocols (Ed Coyle, Bill Chappell)
2. Fault tolerant distributed and parallel systems
 - [1] Monitor (Paulo Verissimo)
 - [2] OpenMP (Rudi Eigenmann)
3. Security
 - [1] Adepts (Gene Spafford)
 - [2] VoIP security (Sachin Garg, Navjot Singh)

Last Semester

- Papers accepted/presented
 - SRDS '04: Oct 18-20; Brazil. Monitor paper: Gunjan and Padma.
 - NDSS '05: Wireless and Mobile Security Workshop, Feb 3-4, San Diego. Wireless security paper: Gunjan
 - MTT-S '05: International Microwave Symposium, June 12-17, Long Beach. Sensor network position determination: Chin-lung
- Papers submitted
 - DSN '05: June 28-July 1, Yokohama, Japan.
 - Monitor: Gunjan and Padma
 - ADEPTS: Bingrui, Hank, Yu-chun
 - TIBFIT: Mark, Padma, Bryan
 - LITEWORP: Issa
 - Worm: Sarah

Last Semester

■ Papers Submitted

- ICDCS '05: June 6-9, Columbus, Ohio. Sensor network location determination: Mark, Chin-lung.
- Ad-hoc Networks Journal. SECOS: Issa
- Trans. on Dependable and Secure Computing (TDSC). Monitor: Gunjan and Padma

Goals for this semester

■ Journals

- Special Issue of the Elsevier Journal on Computer Networks "Security through Self-Protecting and Self-Healing Systems":
Deadline - May 16; Notification - July.
<http://www.zurich.ibm.com/csc/infosec/gsal/events/comnet-self-protect/> [3.1]
- Computer Networks Journal (Elsevier):
http://www.elsevier.com/wps/find/journaldescription.cws_home/505606/description [2.1]

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Goals for this semester

■ Conferences

- USENIX Security Symposium: Deadline - Feb 4, Conference - Aug 1-5, Baltimore; URL: <http://www.usenix.org/events/sec05/cfp/> [3]
- IEEE High Assurance Systems Engineering (HASE '05): Deadline - Mar 18, Conference - Oct 12-14, Heidelberg, Germany; URL: <http://www.deeds.informatik.tu-darmstadt.de/HASE05> [2.2]
- IEEE Military Communications Conference: Deadline - Feb 15 (Abstract), Apr 15 (Full), Conference - Oct 17-20, Atlantic City; URL: <http://www.milcom.org/2005/> [3.1]
- ACM MobiCom 2005: Deadline - Mar 1, Conference - Aug 28-Sep 2, Cologne, Germany; URL: <http://www.sigmobile.org/mobicom/2005/> [1.2]
- ACM Symposium on Operating Systems Principles (SOSP): Deadline - Mar 25, Conference - Oct 23-26, Brighton, UK; URL: <http://www.sosp-20.com/>
- ACM SenSys: Deadline - Apr 1 (Registration), Apr 8 (Full), Conference - Nov 2-4, San Diego; URL: <http://sensys.csail.mit.edu/> [1.2]
- ACM Conference on Computer and Communications Security (CCS): Deadline - May 8, Conference - Nov 7-11, Alexandria; URL: <http://www.acm.org/sigs/sigsac/ccs/CCS2005/> [3]

Topics for Reading Group

Epidemic based reliable multicast	Mike and Vinita
Fault tolerant execution of parallel programs	Bryan
Replication for Highly Available Data	
Testing for Security Robustness	
Reliability in device drivers	

More Logistics

- The Group Champ competition: Earn points for activities during the semester. The one with the maximum number of points at the end of the semester gets the “Group Champ” award. There will be a separate award for the newbie (all within 1 year of joining DCSL) with the max points.
 - Points for conference or journal paper: 3 (Submitted), 5 (Accepted); Proposal: 3 (Submitted), 2 (Accepted); Presentations: 4 (External), 3 (Internal); Mentoring: 2; Departmental award: 2 (Applied), 3 (Won); Special initiatives: 2.
- Weekly socializing
 - Play some social sports at RSC: Wallyball to start
 - Then go out for dinner
 - Schedule: Wednesday 6:30-9:30 pm

Admin Responsibilities for This Semester

- Webmaster: Currently Hank
- Librarian: Currently Issa
- Provision Keeper: Currently Mark
- Lab Arrangement: Currently Ravish

- DCSL is expanding: We are going to get physical space for 2 students in ENAD

- Some do's and don't's:
 - Weekly cleaning
 - Policy on music and phone conversation