

WORKSHOPS

Monday, June 26, 2000

*Workshop on Dependability of IP Applications
Platforms and Networks*

10:15 AM – 5:45 PM

This workshop will focus on technologies and tools that are designed to enhance the dependability of IP based applications, platforms, and networks. Examples of such systems are IP telephony, IP service platforms, IP network management systems, web Infrastructures and applications, IP switches and networks, and middleware tools. The workshop will present papers and talks on basic research, case studies, experiments, architecture designs and practical experience reports which describe techniques to improve or measure the dependability of IP applications and systems.

Contact Information:

Yennun Huang, AT&T Labs- Research

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Workshop Program

Opening Remarks

SESSION 2D:

Dependability Technologies

*Towards Continuous Availability of
Internet Services through
Availability Domains*

N. Bowen and D. Sturman (IBM); T. Liu
(University of Illinois at Urbana-Champaign)

*Issues in Interoperability and
Performance Verification in a Multi-
Orb Telecommunication
Environment*

C.J. Lin, A. Avritzer, E.J. Weyuker, and S. Lo
(AT&T)

*Algorithms for Improving the
Dependability of Firewall and Filter
Rule Lists*

S. Hazelhurst, A. Attar, and R. Sinnappan
(University of the Witwatersrand, South
Africa)

*Dynamic Distribution of resources
for DiffServ Multimedia
Applications*

D.Q. Hai and S.T. Vuong (University of
British Columbia)

SESSION 4D:

*Dependable Network and
Operating Systems*

*The Impact of Internet
Infrastructure Failures*

C. Laborvitz (Microsoft)

Windows 2000 Dependability

B. Murphy (Microsoft)

SESSION 5D:

*Dependable Middleware
and Applications*

*Fault Tolerant CORBA and Its
Applications*

S. Yajnik (Bell Labs, Lucent)

*Building Dependable Internet
Services with E-Speak*

A. Van Morsel (HP Labs)

*A Fault-Tolerant Server
Architecture Applicable to Voice
over IP Services*

R. Lyons (AT&T)

Tuesday, June 27, 2000

Workshop on Dependability of e-Business Systems 8:30 AM – 5:00 PM

The workshop will bring a combination of technical insight and business perspective from companies that are leaders in electronic commerce and driving significant volumes of business over the Internet. Attendees will be researchers, product designers and people deploying these systems. The day will be a mixture of talks on key issues to interactive panel sessions with companies who are actively operating major e-business systems. The objective behind the panels is to engage the creators of the technology, the users of the technology, and the Research community in a fruitful discussion about key issues that must be address in the 21st century.

Contact Information:

Nick Bowen, IBM Watson Research Center bowenn@us.ibm.com

Workshop Program

SESSION 7

PLENARY:

*Keynote Address:
Internet Performance/
Availability from an End
User Perspective*

Eric Siegel, Keynote Systems

SESSION 8D:

*Panel I:
Dependability for Business to
Business Systems*

SESSION 9D:

*Invited Talk:
e-Business Issues for the 21st
Century*
Brian Brandt

SESSION 10D:

*Panel II:
Dependability for Consumer
Based Internet Systems*

SESSION 11D:

*Forum:
Key Issues for Industry,
Research and System
Development*

Wednesday, June 28, 2000

Workshop on Dependability Despite Malicious Faults

8:30 AM – 3:30 PM

This workshop will address explicitly the dependability of computing systems facing attacks by external hackers as well as by insiders, or coping with malicious design faults. Topics of interest include: survivability of large information system infrastructures, security for safety-critical systems, intrusion detection and tolerance, damage assessment and healing, prevention and tolerance of denials of service, dependability assessment with respect to malicious faults, testing, metrics and benchmarking, fault injection and penetration analysis and COTS-based dependable systems.

Contact Information:

Yves Deswarte, LAAS-CNRS & SRI-International

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Workshop Program

SESSION 12

PLENARY:

Panel:

*Running the Bytes without
Getting Bitten: Strategies for
Dealing with Malicious Code*

Panel Chair: Carl Landwehr
(Mitretek Sys)

Panelists will include:

Crispin Cowan (Oregon
Graduate Institute), Gary
McGraw (Reliable Software
Technologies), and Jeannette
Wing (Carnegie Mellon
University).

SESSION 13D:

*Analysis of System
Resiliency to Malice*

*Testing for Software Vulnerability
Using Environment Perturbation*

W. Du and A. Mathur (Purdue University)

*Analyzing Survivability Properties
of Specification of Networks*

S. Jha, R.C. Linger, T. Longstaff, and J. Wing
(Carnegie Mellon University)

*Benchmarking Anomaly-based
Detection System*

R. Maxion and K. Tan (Carnegie Mellon
University)

SESSION 14D:

*System Design for
Resiliency to Malice*

*Avoiding Loss of Fairness Owing to
Process Crashes in Fair Data
Exchange Protocols*

P. Liu (University of Maryland); P. Ning, and
S. Jajodia (George Mason University)

*A Formal-Specification Based
Approach for Protecting the
Domain Name System*

S. Cheung and K.N. Levitt (University of
California, Davis)

Invited Talk