

47th IFIP WG 10.4 Meeting

Rincón of the Seas Grand Caribbean Hotel, PR, USA

Wednesday January 26 — Sunday January 30, 2005



Saturday January 29, 2005

Agenda

- IFIP World Computer Congress — **WCC'2004** (J.-C. Laprie)
- IEEE/IFIP DSNs - **DSN-2005, DSN-2006** (T. Nanya, C.Kintala)
- IEEE Trans. on Dependable and Secure Computing
- Future WG Meetings — **48, 49, ... 50** (T. Nanya)

- TC-10 Conference at **WCC'2006**
- Other Supported Events
- [Membership -- restricted to WG members]

Top3: Fault Tolerance for Trustworthy and Dependable Information Infrastructures

■ Monday 23 August 2004 (Afternoon)

13h30 - 15h — Setting up the Scene

Alain Costes

- ◆ *Brief Addresses by the IFIP WG10.4 Past and Current Chairs*
Algirdas Avizienis, Jean-Claude Laprie, Hermann Kopetz, Jean Arlat
- ◆ *Dependable Systems of the Future: What Is Still Needed?*
Algirdas Avizienis (UCLA, USA) and Vytautas Magnus U., Kaunas, Lithuania)
- ◆ *Dependability and Its Threats: A Taxonomy*
Algirdas Avizienis, Jean-Claude Laprie (LAAS-CNRS), Brian Randell (U. Newcastle, UK)

15h30 - 17h30 — Contributions, Advances and Trends

Jacob Abraham

- ◆ *Current Research Activities on Dependable Computing and Other Dependability Issues in Japan*
Yoshihiro Tohma (Tokyo Denki U.) , Masao Mukaidono (Meiji U); Japan
- ◆ *Dependable Computing at Illinois*
Ravishankar Iyer, William Sanders, Janak Patel, Zbigniew Kalbarczyk (UIUC, USA)
- ◆ *Wrapping the Future*
Tom Anderson, Brian Randell, Alexander Romanovsky (U. Newcastle, UK)
- ◆ *From the University of Illinois via JPL and UCLA to Vytautas Magnus University: 50 Years of Computer Engineering by Algirdas Avizienis*
David Rennels, Milos Ercegovic (UCLA, USA)

Top3: Cont'

■ Tuesday 24 August 2004 (All day)

10h30 - 12h — Dependability and Predictability of Embedded Systems

Hiro Ihara

- ◆ *Airbus Fly-by-Wire: A Total Approach to Dependability*
Pascal Traverse, Isabelle Lacaze, Jean Souyris (Airbus, France)
- ◆ *Unique Dependability Issues for Commercial Airplane Fly By Wire Systems*
Ying C. Yeh (Boeing Corporation, Seattle, WA, USA)
- ◆ *The Fault-Hypothesis for the Time-Triggered Architecture*
Hermann Kopetz (U. Technology, Vienna, Austria)

13h30 - 15h — Focuses on Communications, Security, and Software Verification

Yoshi Tohma

- ◆ *Communications Dependability Evolution Between Convergence and Competition*
Michele Morganti (Siemens Mobile Communications, Milan, Italy)
- ◆ *Intrusion Tolerance for Internet Applications*
Yves Deswarte, David Powell (LAAS-CNRS, France)
- ◆ *Static Program Transformations for Efficient Software Model Checking*
Shobha Vasudevan, Jacob A. Abraham (U. Texas at Austin, USA)

15h30 - 17h — Further Challenges and Perspectives

Bill Sanders

- ◆ *Architectural Challenges for a Dependable Information Society*
Luca Simoncini (U. Pisa and PDCC), Andrea Bondavalli (U. Florence and PDCC), Felicita Di Giandomenico, Silvano Chiaradonna (ISTI-CNR, Pisa and PDCC); Italy
- ◆ *Experimental Research in Dependable Computing at Carnegie Mellon University*
Daniel P. Siewiorek, Roy A. Maxion, Priya Narasimhan (Carnegie Mellon U., Pittsburgh, USA)
- ◆ *Systems Approach to Computing Dependability In and Out of Hitachi: Concept, Applications and Perspective*
Hirokazu Ihara (Hiro Systems Laboratory Tokyo, Japan), Motohisa Funabashi (Hitachi Ltd, Kawasaki, Japan)

Friendly Dinner



IEEE/IFIP International Conference on Dependable Systems and Networks



Yokohama, Japan (June 28 - July 1, 2005)

- ◆ General Chair: **Takashi Nanya** (University of Tokyo, Japan)
- ◆ Conference Coordinator: **Tohru Kikuno** (Osaka University, Japan)
- ◆ DCCS Program Chair: **Andrea Bondavalli** (University of Florence, Italy)
- ◆ PDS Program co-Chairs: **Boudjwin Haverkort** (Univ. of Twente, The Netherlands)
Dong Tang (Sun Microsystems, CA, USA)



Philadelphia, PA, USA (June 25-28, 2006)

- ◆ General Chair: **Chandra Kintala** (Stevens Inst. of Technology, Hoboken, NJ, USA)
- ◆ Conference Coordinator: **David Taylor** (Univ. of Waterloo, Canada)
- ◆ DCCS Program Chair: **Lorenzo Alvisi** (University of Texas, Austin, USA)
- ◆ PDS Program Chair: **Aad Van Moorsel** (University of Newcastle Upon Tyne, UK)

IEEE Transactions on Dependable and Secure Computing

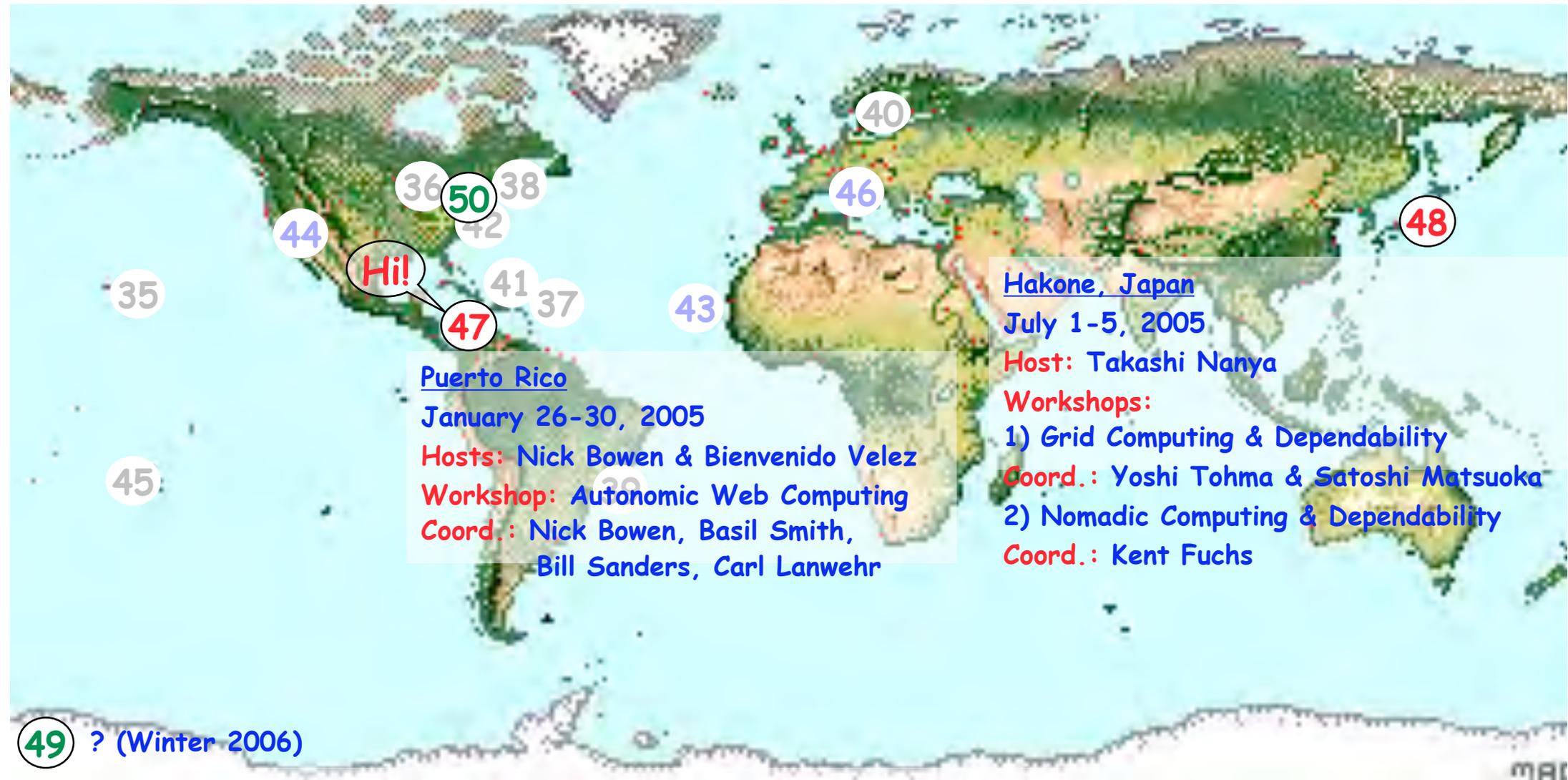
<http://computer.org/tdsc>

- > Quarterly Journal - Three Issues (2004) already out
- 2nd Editorial Board Meeting at UIUC in Dec. 2005
- More than 100 submissions already received
- Think of submitting a paper!

(Some) Proposals for Workshop Topics

- **Autonomic Web Computing**
 - **Nomadic Computing and Dependability (Kent)**
 - **Grid Computing and Dependability (Yoshi)**
 - **Security and Operational Challenges for Service Providers Networks (Farnam)** → tentatively, with 50th meeting linked to DSN-2006 ?
 - **Dependability in Robotics and Autonomous Systems (David Powell)**
[Possibly in connection with Int. Advanced Robotics Programme WG on Robot Dependability]
- } → at meeting 48 (Hakone)

Future Meetings



Winter-winter ?

Cabo San Lucas, Mexico [Initially proposed for Winter 2005]

Hosts: Kane Kim & Phil Koopman

TC-10 Conference at IFIP WCC-2006

Biologically Inspired Cooperative Computing

- Chairs: **Franz Rammig** (Chair TC10) & **Mauricio Solar** (U Sant. Chile)
- Program Chairs: **Yi Pan** (U. Georgia) & **Hartmut Schmek** (U. Karlsruhe)
- Not bio-informatics -> Four Streams:
 - (1) Modelling and Reasoning about Collaborative Self-Organizing Systems (10.1)
 - (2) Collaborative Sensing and Processing Systems (10.3)
 - (3) **Robustness and Dependability in Collaborative Self-Organizing Systems (10.4)**
 - (4) Design and Technology of Collaborative Self-Organizing Systems (10.5)

Other (in cooperation) Events

- **SAFECOMP-2004** (23rd International Conference on Computer Safety, Reliability and Security), Potsdam, Germany, **September 21-24, 2004** — <http://www.safecomp.org>
- **SRDS-2004** (22nd Symp. on Reliable Distributed Systems), Florianopolis, SC, Brazil, **October 18-20, 2004** — <http://www.SRDS2004.ufsc.br>
- **WORDS-2005** (10th Int. Workshop on Object-oriented Real-time Dependable Systems), Sedona, AZ, USA, **February 2-4, 2005** — <http://asusrl.eas.asu.edu/srlab/activities/words05/words05.htm>
- **EDCC-2005** (5th European Dependable Computing Conference), Budapest, Hungary, **April 20-22, 2005** — <http://sauron.inf.mit.bme.hu/EDCC5.nsf>
- **4th IARP/IEEE-RAS/EURON Workshop on Technical Challenges for Dependable Robots in Human Environments**, Nagoya, Japan, **June 16-18, 2005**
- **SAFECOMP-2005** (24th International Conference on Computer Safety, Reliability and Security, Norway, **September 28-30, 2005** — <http://www.safecomp.org>
- **LADC-2005** (2nd Latin-American Symposium on Dependable Computing), Salvador, Bahia, Brazil, **October 25-28, 2005** — <http://www.lasid.ufba.br/ladc2005>
- **PRDC-2005** (11th Int. Symp. Pacific Rim Dependable Computing), Changsha, China, **December 12-14, 2005** — <http://sc.hnu.cn/newweb/communion/prdc2005/presentation.htm>