10th IEEE International Symposium Pacific Rim Dependable Computing - PRDC 2004 March 3-5, 2004 — Papeete, Tahiti, French Polynesia

Final Program

Tuesday		March 2, 2004
18H30	Welcome Reception	

Wednesday March 3, 2004 09H00-09H30 Welcome Address and Introduction 09H30-10H30 Keynote I: Reliability and Security: From Measurements to Design Ravishankar K. Iyer, Coordinated Science Laboratory, University of Illinois at Urbana Champaign, USA Chair: Algirdas Avizienis, Vytautas Magnus University, Lithuania 10H30-11H00 Coffee Break 11H00-12H30 Session 1A: Web and WAN Dependability ession 1B: Practical Experience Reports I Chair: William Sanders, University of Illinois at Urbana Chair: Sy-Yen Kuo, National Taiwan University, Taiwan Champaign, USA Cache Scrubbing in Microprocessors: Myth or Necessity? Towards Dependable Web Services Shubhendu S. Mukherjee, Joel Emer, Tryggve Fossum, Intel Corporation, Markus Debusmann, Fachhochschule Wiesbaden; Shrewsbury, MA; Steven K. Reinhardt, Intel Corporation, Shrewsbury, MA and Kurt Geihs, TU Berlin; Germany University of Michigan, Ann Arbor; USA Failure Handling in a Reliable Multicast Protocol for Application-Level Fault Tolerance and Detection in the Orbital Improving Buffer Utilization and Accommodating Thermal Imaging Spectrometer Eric Ciocca, Israel Koren, Zahava Koren, C. Mani Krishna, University of Massachusetts, Amherst, MA; Daniel Katz, JPL, Pasadena, CA; USA Heterogeneous Receivers Gunian Khanna, Saurabh Bagchi, Purdue University, West Lafayette, IN; John Rogers, Bank of AmericaCorporate, Error Detection Enhancement in COTS Superscalar Processors with Charlotte, NC; USA Event Monitoring Features An Algorithmic Approach to Identifying Link Failures Amir Rajabzadeh, Mirzad Mohandespour, Ghassem Miremadi, Sharif Mohit V. Lad, Akash Nanavati, UCLA, Los Angeles, CA; Dan University of Technology, Teheran, Iran Massey, USC/ISI, Arlington, VA; Lixia Zhang, UCLA, Los Angeles, CA; USA 12H30-13H30 Lunch 13H30-15h30 ssion 2A: Distributed Protocols and Systems ession 2B: Software Reliability and Testing Chair: Paulo Verissimo, Universidade de Lisboa, Portugal Chair: Yoshihiro Tohma, Tokyo Denki University, Japar A Hybrid Approach for Building Eventually Accurate Safety Testing of Safety Critical Software Based on Critical Mission Failure Detectors Duration Achour Mostefaoui, IRISA & University of Rennes; David Shiping Yang, Nan Sang, Guangze Xiong, University of Electronic Science and Powell, LAAS-CNRS, Toulouse; Michel Raynal, IRISA & Technology of China, Chengdu, China University of Rennes; France Optimal Allocation of Testing-Resource Considering Cost, Reliability, Systematic Comparisons of RDT Communicationand Testing-Effort Induced Checkpointing Protocols Chin-Yu Huang, National Tsing Hua University, Hsinchu; Jung-Hua Lo, Lan Jichiang Tsai, National Chung Hsing University, Taichung, Yang Institute of Technology, I-Land; Sy-Yen Kuo, National Taiwan University, Taipei; Taiwan; Michael R. Lyu, Chinese University of Hong Kong, Shatin, Taiwar Hong Kong On the Effects of Partial Membership Knowledge on Quantifying the Variance in Application Reliability Reliability of Gossip-based Multicast Swapna Gokhale, University of Connecticut, Storrs, CT, USA Tatsuhiro Tsuchiya, Tohru Kikuno, Osaka University, Japan Software Rejuvenation Policies for Cluster Systems under Varying Measuring Notification Loss in Publish/Subscribe Workload Communication Systems Wei Xie, Duke University, Durham, NC, USA; Yiguang Hong, ISS, Chinese Roberto Baldoni, Roberto Beraldi, S. Tucci Piergiovanni, A. Academy of Sciences, Beijing, China; Kishor S. Trivedi, Duke University, Virgillito, Università di Roma "La Sapienza", Italy Durham, NC, USA 15H30-16H00 Coffee Break 16H00-17H30 ession 3A: Checkpointing and Recovery ssion 3B: Fast Abstracts I Chair: Luca Simoncini, Università di Pisa, Italy Chair: Takashi Nanya, University of Tokyo, Japan Using Modulo Rulers for Optimal Recovery Schemes in Distributed Computing Kamilla Klonowska, Lars Lundberg; Håkan Lennerstad, Charlie Svahnber, Blekinge Institute of Technology, Ronneby, Sweden [See last page for list of papers and ordering] Analysis of Read and Write Availability for Generalized Hybrid Data Replication Protocol Masavuki Arai, Tabito Suzuki, Mamoru Ohara, Satoshi Fukumoto, Tokyo Metropolitan University, Tokyo, Japan; Hee Yong Youn, SungKyunKwan University, Korea A Dynamic Checkpointing Scheme Based on Reinforcement Learning Hiroyuki Okamura, Yuki Nishimura, Tadashi Dohi, Hiroshim University, Japan 17H30-17H45 Break ession 4B: Fast Abstracts II 17H45-19H15 ession 4A: Parallel & High-Performance Systems Chair: Saurabh Bagchi, Purdue University, USA Chair: Wendy Bartlett, Hewlett-Packard, CA, USA Availabilities and Costs of Reliable Fat-Btrees Jun Miyazaki, Nara Institute of Science and Technology; Youhei Abe, ACCESS, Co., Ltd.; Haruo Yokota, Tokyo Institute of Technology; Tokyo; Japan [See last page for list of papers and ordering] Node-to-Node Internally Disjoint Paths Problem in Bubble-Sort Graphs Keiichi Kaneko, Yasuto Suzuki, Tokyo University of Agriculture and Technology, Japan Fault-Tolerant Message Switching Based on Wormhole Switching and Backtracking Manabu Sueishi, Masato Kitakami, Hideo Ito, Chiba University, Japan 20H00 Gala Dinner

Thursday		March 4, 2004	
	Excursion		
06H30-08H00	Visit of Papeete Market and Breakfast, at the invitation of Deputy-Mayor of Papeete		
08H15-09H00	Visit of Pearl Museum		
09H00-09H30	Transportation to Fishermen' Place (Pointe des pêcheurs)		
09H30-11H30	Visit of Tahiti & Island Museum and traditional Cocktail, at the invitation of Minister of Culture and Research of the Territory		
11H30-12H00	Return to Hotel		
12H15-13H15	Lunch		
13H15-14H15	Keynote II: New Technologies, More Problems! Jacob A. Abraham, Computer Engineering Research Center, The University of Texas at Austin, USA Chair: Alain Costes, LAAS-CNRS, France		
14H15-15H15	Session 5A: Distributed Systems Modeling Chair: Kishor Trivedi, Duke University, USA Reliability Evaluation of Dependable Distributed Computing Systems Based on Recursive Merge and BDD Yung-Ruei Chang, Hung-Yau Lin, Sy-Yen Kuo, National Taiwan University, Taipei, Taiwan Expected-Reliability Analysis for Wireless CORBA with Imperfect Components Xinyu Chen, Michael Lyu, Chinese University of Hong-Kong, Shatin,	 Session 5B: Coding Chair: Jan Torin, Chalmers University of Technology, Sweden Nonsystematic M-Ary Asymmetric Error Correcting Codes Designed by Multilevel Coding Method Haruhiko Kaneko, Mariko Numakami, Eiji Fujiwara, Tokyo Institute of Technology, Japan Protecting Wavelet Lifting Transforms Robert Redinbo, Cung Nguyen, University of California Davis, CA, USA 	
15H15-15H45	Coffee Break		
15H45-16H45	Session 6A: Mobile Systems and Networks Chair: John Meyer, University of Michigan, USA Connecting Network Partitions with Location-Assisted Forwarding Nodes in Mobile Ad Hoc Environments Chia-Ho Ou, Kuo-Feng Ssu, Hewijin Christine Jiau, National Cheng Kung University, Tainan, Taiwan Analysis and Evaluation of Topological and Application Characteristics of Unreliable Mobile Wireless Ad-hoc Network Serdar Cabuk, Nipoon Malhotra, Longbi Lin, Saurabh Bagchi, Ness Shroff, Purdue University, West Lafayette, IN, USA	Session 6B: Dependability Benchmarking Chair: Günter Heiner, DaimlerChrysler, Germany Benchmarking Operating System Dependability: Windows 2000 as A Case Study Ali Kalakech, Tahar Jarboui, Jean Arlat, Yves Crouzet, Karama Kanoun, LAAS-CNRS, Toulouse, France The System Recovery Benchmark James Mauro, Ji Zhu, Ira Pramanick, Sun Microsystems, Santa Clara, CA, USA	
16H45-17H00	Break		
17H00-18H00	Presentations by GIE Tourisme		
18H00	Cocktail offered by the Minister of Post and New Technologies, and the President of the Council of OPT Group		

Friday		March 5, 2004
08H30-10H00	Session 7A: Fault Tolerance Chair: Philip Koopman, Carnegie Mellon University, USA	Session 7B: Practical Experience Reports II Chair: Robert Redinbo, University of California Davis, USA
	Aspects for Improvement of Performance in Fault-Tolerant Software Diana Szentivanyi, Simin Nadjm-Tehrani, Linköping University, Linköping, Sweden	Evaluation of Memory Built-In Self Repair Techniques for High Defect Density Technologies Lorena Anghel, TIMA; Nadir Achouri, Michael Nicolaidis, IROC Technologies; Grenoble, France
	A Freshness Detection Mechanism for Railway Applications Andrea Bondavalli, Enrico De Giudici, University of Florence; Stefano Porcarelli, ISTI-CNR, Pisa; Salvatore Sabina, Fabrizio Zanini, Ansaldo Segnalamento Ferroviario, Genova; Italy	Efficient Built-in Self-Test Techniques for Memory-Based FFT Processors Shyue-Kung Lu, Chien-Hung Yeh, Han-Wen Li, National Taiwan University, Taipei, Taiwan
	RedCAN: Simulations of Two Fault Recovery Algorithms for CAN Håkan Sivencrona, SP Swedish National Testing & Research Institute, Borås; Torbjörn Olsson, Sauer-Danfoss, Älmhul; Roger Johansson, Jan Torin, Chalmers University, Goteborg, Sweden	Evaluation of Fault-Tolerant Designs Implemented on SRAM-Based FPGAs Ghazanfar Asadi, Seyed Ghassem Miremadi, Hamid R. Zarandi, Alireza Ejlali, Sharif University of Technology, Teheran, Iran
10H00-10H30	Coffee Break	
10H30-12H00	Panel on High Performance Computing in Dependable Space Organizer: Raphael Some, Jet Propulsion Laboratory, CA, USA Panelists: Algirdas Avizienis, Vytautas Magnus University, Lithuania Jiri Gaisler, Gaisler Research, Göteborg, Sweden Hirokazu Ihara, Tokyo Denki University, Japan Shubu Mukherjee, Intel Corporation, Shrewsbury, MA, USA Negeris Swi, TIL Derrented, Germany	e Systems
12H00 13H00	I unch	
	Lunch	
13H00-15H00	Session 8A: Validation and Modeling	Session 8B: Practical Experience Reports III Chair: Jean-Claude Laprie LAAS-CNRS France
13H00-15H00	Session 8A: Validation and Modeling Chair: Tohru Kikuno, Osaka University, Japan Improving AI Systems' Dependability by Utilizing Historical Knowledge Rainer Knauf, Technical University of Ilmenau, Germany; Setsuo Tsuruta, Hirokazu Ihara, Tokyo Denki University, Japan; Avalino J. Gonzalez, University of Central Elorida, FL USA: Torsten Kurbad	Session 8B: Practical Experience Reports III Chair: Jean-Claude Laprie, LAAS-CNRS, France Honeypots: A Practical Mean to Validate Malicious Fault Assumptions on the Internet Marc Dacier, Fabien Pouget, Eurécom, Sophia Antipolis; Hervé Debar, FranceTelecom R&D, Caen; France
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Session 3B: Fast Abstracts I
Chair: Takashi Nanya, The University of Tokyo, Japan
Incorporating Application-Level Fault Tolerance and Detection into Radar Angular Super-Resolution Hua Yang, Beijing Institute of Control Engineering, China; Israel Koren, C.M. Krishna, University of Massachusetts, Amherst, USA
EWS: A Mini Dependable Computer System for Non-PC Devices Guang-jie Han, Northeastern University, Shenyang; Ling-yu Xu, Shanghai University; Mo Guan, and Hai Zhao, Northeastern University, Shenyang; China
Design of a Fault-Tolerant Real-Time Embedded Operating System: WebitOS Jindong Wang, Northeastern University, Shenyang; Lingyu Xu, Shanghai University; Hai Zhao, Guangjie Han, Northeastern University; China
An Economic Design of the k-out-of-n Reactor Protection System Dong-Young Lee, Jai-Bok Han, Korea Atomic Energy research Institute; Joon Lyou, Chungnam National University; Korea
A Concept of a Data-Oriented Dependable Interlocking System Sei Takahashi, Hideo Nakamura, Nihon University, Japan
An Implementation of System-Level Dependable Architecture for Industrial Embedded Computing Systems R.Pitchiah, L.M.Patnaik, S.K.Sinha, Indian Institute of Science; David SelvaKumar, P.K.Sinha, Center for Development of Advanced Computing; Bangalore, India
A Search Mechanism on a Distributed Virtual World: Six-Direction Simultaneous Search Jui-Fa Chen, TamKang University; Wei-Chuan Lin, E-Commerce Center, Tak-Ming College; Chih-Yu Jian, Heng-Yi Chiou, TamKang University; Taiwan
Defining Semantic Guideline in XML-Based Programmable Service Environment Pattara Leelaprute, Osaka University; Masahide Nakamura, Kenichi Matsunoto, Nara Institute of Science & Technology; Tohru Kikuno, Osaka University; Japan
An Enterprise Knowledge Management Approach to Software Development Hasnain Zafar Baloch, Mamadou Bobo Sylla, Multimedia University, Malaysia
Collective Mind Approach to Active State Model Michail Zak, Jet Propulsion Laboratory and California Institute of Technology, USA
Ensuring Resource Availability for Reliable Job Completion on a Grid N. G. Aparna, Srividya Gopalan, V. Sridhar, Satyam Computer Services Ltd., Bangalore, India
On the Composability of Transactional Attributes Ricardo Jimenez-Peris, Marta Patino-Martinez, Universidad Politécnica de Madrid, SPAIN
Session 4B: Fast Abstracts II
Chair: wendy Barnen, rewnen Fackara, OSA Byzantine-Resistant Consensus Based on a Novel Approach to Intrusion Tolerance M. Correia, N. F. Neves, Faculdade de CiênciasdaUniversidade de Lisboa, Portugal; L. C. Lung, Pontificia Universidade Católica do Paranà, PradoVelho, Brazil; P. Verissimo, Faculdade de Ciênciasda Universidade de Lisboa, Portugal
An Infrastructure for Efficient and Reliable Network Intrusion Detection Thomas Holz, PACE Aerospace Engineering and Information Technology GmbH, Berlin, Germany
CMEA - Compromise Modes and Effects Analysis for Information Systems Rico R. Valdez, Hunter Provyn, BBN technologies, USA
Protecting EBCOT Encoding System for JPEG2000 Cung Nguyen, G.Robert Redinbo, University of California Davis, USA
A Faster Checkpointing and Recovery Algorithm on SCore Environment Wen Gao, Takuro Hayashida, Masaaki Kondo, Hiroshi Nakamura, Takashi Nanya, Research Center for Advanced Science and Technology, the University of Tokyo, Japan
TMR Algorithms for Duplex Systems Mamoru Ohara, Masayuki Arai, Satoshi Fukumoto, Kazuhiko Iwasaki, Tokyo Metropolitan University, Japan A Faster
On Omega in Sparse Networks Martin Hutle, Vienna University of Technology, Austria
A Framework for Validating EPIC Code Rohit Kundaji, R. K. Shyamasundar, Tata Institute of Fundamental Research, Mumbai, India
Test Architecture Exploration on Reconfigurable Scan Chain Network Makoto Sugihara, Institute of Systems & Information Technologies/KYUSHU; Kazuaki Murakami, Communication Engineering, Kyushu University: Ianan

Behavioral Fault Simulation for VHDL Description Using DEVS Formalism Laurent Capocchi, Dominique Federici, Fabrice Bernardi, Paul Bisgambiglia, University of Corsica, France DSSV-Methodology for the Validation on High Level of the Software Specification Emmanuelle de Gentili, Jean François Santucci, Dominique Federici, Paul Antoine Bisgambiglia, University of Corsica, France