

64th Meeting of the IFIP 10.4 Working Group on

Visegrád, Hungary (Danube Bend), June 27-30, 2013

Dependable Computing and Fault Tolerance

Final Program

Thursday, June 27, 2013

19:00 Welcome reception, in the hotel (exact location to be defined)

Friday, June 28, 2013

8:30 Meeting Start

Introduction to the meeting and workshop (Paulo Verissimo, Andras Pataricza)

Workshop on Dependability and Fault Tolerance

8:45 Session 1 (Chair: David Powell)

Measures of System Quality: A 50-year Evolution – John Meyer, University of Michigan, USA

The Challenges of Dependable High-Performance Computing at Exascale - Mootaz Elnozahy, King Abdullah University of Science and Technology, Saudi Arabia

Proactive Fault Management: Status and Perspectives - Mirek Malek, Faculty of Informatics, University of Lugano (USI), Switzerland

10:15 Discussion

10:30 Coffee break

11:00 Session 2 (Chair: Felicita di Giandomenico)

GridCloud: Realtime infrastructure to monitor the smart power grid and host advanced power applications – Ken Birman, Cornell University, USA

External Runtime Monitoring for Safety of Embedded Systems - Phil Koopman, Carnegie Mellon University, USA

Real-time SEC&DEP monitoring: make it a bundle - Luigi Romano, University of Naples "Parthenope", Italy

12:30 Discussion

13:00 Lunch

16:30 Coffee break

17:00 Business Meeting of WG 10.4

IFIP Working Group 10.4 business meeting

18:30 End of meeting day 1

20:00 DINNER

Saturday, June 29, 2013

8:30 Session 3 (Chair: Jean Arlat)

The Architecture of a Resilience Infrastructure for Computing and Communication Systems - Algirdas Avižienis, University of California LA, USA and Vytautas Magnus University, Lithuania

Defects and Faults in Emerging Integrated Circuit Technologies - Jacob Abraham, University of Texas Austin, USA

A Conceptual Model for the Information Transfer in System of Systems - Hermann Kopetz, Austria

10:00 Discussion

10:15 Coffee break

10:45 Session 4 (Chair: Phil Koopman)

Architecture, Issues and Challenges for Safety Related Autonomous Systems – Stefan Poledna, TTTECH, Austria

Self-Manageable Protocols for Dependability - Raimundo Macedo, University Federal da Bahia, Brasil

Why Do Modern Web Applications Fail and What Can we Do About It? - Karthik Pattabiraman, University of British Columbia, Canada

12:15 Discussion

13:00 Lunch

14:00 Excursion

19:00 Return to hotel

20:00 BANQUET

Sunday, June 30, 2013

8:30 Session 5 (Chair: Stefan Poledna)

Economics of Dependability (Research Proposal) – Takashi Nanya, Canon, Inc., Japan

From Measurements to Security Science: A Data Driven Approach - Ravishankar K. Iyer, University of Illinois at Urbana-Champaign, USA

Emerging Frontiers in Dependability research – Farnam Jahanian, NSF, USA

Murphy Was an Optimist - Kevin Driscoll, Honeywell, USA

The BiobankCloud Project: Genomic data in the clouds, how risky? - Paulo Verissimo, University of Lisbon Faculty of Sciences, Portugal

9:45 Coffee break

10:15 Session 6 (Chair: Kevin Driscoll)

Smart Control of Energy Distribution Grids over Heterogeneous Communication Networks - Felicita Di Giandomenico, ISTI-CNR, Italy

The KARYON approach for Safe Coordination in Cooperative Vehicular Systems - António Casimiro, University of Lisbon Faculty of Sciences, Portugal

Testing the robustness and safety of context-aware autonomous behavior - Istvan Majzik, Budapest University of Technology and Economics, Hungary

Dependability entering mainstream IT networking standards (IEEE 802.1) - Wilfried Steiner, TTTech, Austria

Development of Dependable Network-on-Chip Platform (4) - Tomohiro Yoneda, National Institute of Informatics, Japan

11:30 Discussion and Meeting Wrap-up

12:00 Lunch

13:30 End of meeting