84th IFIP WG 10.4 Meeting

June 23-26, 2023 – *Arcos de Valdevez*, Portugal

Friday, June 23	
19:00h - …	Welcome Reception @ *Porto Palácio Hotel by The Editory*

Saturday, June 24	
08:30h	Bus from *Porto Palácio Hotel by The Editory* to *Hotel Luna Arcos*
10:00h - 10:30h	Coffee Break
10:30h - 12:30h	**Opening and Welcome**
	Session #1 – From the past to the future: Reshaping dependable computing and fault tolerance…

	Chair: Paulo Verissimo, KAUST, KSA
	Rapporteur: Xavier Defago, Tokyo Institute of Technology, Japan
	
	Brian Randell, University of Newcastle upon Tyne, UK
	    What Next?
	Ravishankar Iyer, University of Illinois at Urbana-Champaign, US
	    *Towards Reliable and Robust Generative Foundation Models
	    for Critical Infrastructure?*
	Tom Anderson, University of Newcastle upon Tyne, UK
	    *Future dependability problems: insoluble? intractable?
	    or just very difficult?*
	Cristina Nita-Rotaru, Northeastern University, US
	    New Problems in Dependability: Quantum Computing
	Roy Maxion, Carnegie-Mellon University, US
	    Dependability Remit: Narrow vs Broad

12:30h - 14:00h	Lunch
14:00h - 15:45h	Free Time: visit *Arcos de Valdevez*
15:45h - 16:15h	Coffee Break
16:15h - 17:45h	**Session #2 – Giving the floor to the younger members: Grand Challenges for our community**

	Chair: Karthik Pattabiraman, University of British Columbia, Canada
	Rapporteur: Andrea Ceccarelli, University of Florence, Italy
	
	Saman Zonouz, Georgia Tech, US
	    Cyber-Physical Intrusion Resilience
	Catello Di Martino, Nokia Bell Labs, US
	    Dependability Challenges for industrial 6G applications
	Marcus Völp, University of Luxembourg, Luxembourg
	    Complexity, an old forgotten enemy
	Jiangshan Yu, Monash University, Australia
	    *The Future of Trust: Research and Community Challenges -
	    A viewpoint*

18:00h	Bus from *Hotel Luna Arcos* to *Paço de Giela*
18:15h - 19:15h	Wine Tasting @ *Paço de Giela*
19:15h	Bus from *Paço de Giela* to *Hotel Luna Arcos*
19:30h - …	*Arraial de São João @ Hotel Luna Arcos*

Sunday, June 25	
08:30h - 10:00h	**Panel - Dependability and Security Challenges in the face of 21st Century Threats and Trends: Industry and Academic Perspectives**

	Moderator: Tom Anderson, University of Newcastle upon Tyne, UK
	Rapporteur: Felicita Di Giandomenico, ISTI-CNR, Italy
	
	Lorenzo Strigini, City University London, UK
	    Pervasive AI and complex socio-technical systems
	Paulo Carvalho, University of Coimbra, Portugal
	    Dependability Challenges in Personal Health Solutions
	John Meyer, University of Michigan, US
	    Dependability Assurance Challenges posed by 21st Century Trends
	Wilfried Steiner, TTTech, Austria
	    Industry Perspective on Complexity-driven Challenges
	Jay Lala, Raytheon Technologies, US
	    Cyber Resiliency and Survivability in Aerospace & Defense Domains

10:00h - 10:30h	Coffee Break
10:30h - 12:30h	**Session #3: Share your view on the future of dependable computing and fault tolerance!**

	Chair: Saurabh Bagchi, Purdue University, US
	Rapporteur: Ilir Gashi, City University of London, UK
	
	Alysson Bessani, University of Lisboa, Portugal
	    The Future of Dependable Distributed Systems is Simple
	Razvan Beuran, JAIST, Japan
	    Dependability in practice: How to do it?
	Elias Duarte, Federal University of Paraná, Brazil
	    The Future of Dependability: Perspectives
	Ahmed Helmy, University of North Carolina at Charlotte, US
	    Dependable future mobile networked systems: Connected Communities, Vehicles & Health
	Ibéria Medeiros, University of Lisboa, Portugal
	    Testing Software Out-of-House: How to Make it Reliable while Ensuring Code Privacy

	Research Reports
	Chair: Henrique Madeira, University of Coimbra, Portugal
	
	Marcus Völp, University of Luxembourg, Luxembourg
	    Masking Control Faults with n = f+1
	Algirdas Avizienis, UCLA, US
	    The Mystery of the Missing Sensor
	Paulo Esteves-Veríssimo, KAUST, KSA
	    AI for Cybersecurity vs. Cybersecure AI: a chicken and egg problem?
	Lorenzo Strigini, City University London, UK
	    New systems, inevitable doubt, actual risk
	Robert Stroud, Adelard LLP, UK
	    Consistent Logical Automated Reasoning for Integrated System Software Assurance (CLARISSA)
	Naohiro Hayashibara, Kyoto Sangyo University, Japan
	    Offloading for Secure Microservice Architectures
	Behrooz Sangchoolie, RISE, Sweden
	    Analysis of the Interplay between dependability and security attributes

	Roberto Natella, Università degli Studi di Napoli Federico II, Italy *Automating Adversary Emulation of Advanced Persistent Threats* Elias Duarte, Federal University of Paraná, Brazil *Leveraging In-Network Computing with Network Function Virtualization*
12:30h - 13:45h	Lunch
14:00h	Bus from *Hotel Luna Arcos* to… *<excursion>*
19:30h - …	Dinner @ *Restaurante Espigueiro, Soajo*
22:00h	Bus from *Restaurante Espigueiro* to *Hotel Luna Arcos*

Monday, June 26	
08:30h - 10:00h	**Business Meeting** Quick reports from Technical Sessions *Business as usual*
10:00h - 10:30h	Coffee Break
10:30h - 12:30h	**Business Meeting** – Members only! *Reflection on the future of the WG*
12:30h - 14:00h	Lunch
15:30h	Bus from *Hotel Luna Arcos* to Porto