

**83rd Meeting of the IFIP 10.4 Working Group on
Dependable Computing and Fault Tolerance
Melbourne, Australia, 12th - 16th January 2023**

Workshop on The Future of Blockchains

Co-Chairs: Jiangshan Yu (Monash University, AU)

Paulo Verissimo (KAUST, KSA)

Matti Hiltunen (AT&T Labs, USA)

Program

Thursday, January 12 (Location: Footlights Restaurant@Hotel Grand Chancellor)

18:40 Registration

19:00 Welcome Reception

Friday, January 13 (Location: Chancellor 2@Hotel Grand Chancellor)

8:30 Welcome Opening

Introduction to the WG

(Marco Vieira, University of Coimbra, Portugal)

Introduction to the Meeting and Workshop

(Jiangshan Yu, Monash University, AU; Paulo Verissimo, KAUST, KSA)

**9:00 Session 1 – Blockchain for Critical Infrastructure
(Chair: Dan Kim, The University of Queensland)**

Blockchain for Cyber-Physical Systems

(Salil Kanhere, UNSW, Australia)

Blockchain and database - a match made in the cloud

(Anh Dinh, Deakin University, Australia)

10:30 Discussion

10:45 Coffee Break

**11:15 Session 2 – Future Applications and Regulations
(Chair: Sushmita Ruj, UNSW)**

Blockchain in Action – Data61 Blockchain R&D

(Shiping Chen, Data61-CSIRO, Australia)

Know-Your-Transactions: Crypto Compliance and Transaction Monitoring

(Lihong Tang, HyperLab, Australia)

12:45 Discussion

13:00 Lunch at Hotel and Break

15:30 Coffee Break

16:00 IFIP WG 10.4 Business Meeting

17:00 End of Meeting Day 1

Saturday, January 14 (Location: Chancellor 2@Hotel Grand Chancellor)

9:00 Session 3 – Dependability and Security Aspects of Blockchain
(Chair: Marcus Völp, University of Luxembourg)

Securing Blockchain Systems: Codes and Human
(Yang Xiang, Swinburne University of Technology, Australia)

Blockchain Replication: The Whys and The Hows
(Miguel Correia, INESC-ID/IST, Portugal)

10:30 Discussion

10:45 Coffee Break

11:15 Session 4 – Performance and Scalability Aspects of Blockchain (Chair:
Anh Dinh, Deakin University)

Coloring Smart Contracts and Other Musings About Efficient Blockchain Execution
(Roy Friedman, Technion, Israel)

Dumbo Protocols: Making Asynchronous Consensus Real
(Qiang Tang, University of Sydney, Australia)

12:45 Discussion

13:00 Lunch at Hotel and Break

15:45 Coffee Break

16:00 Workshop Wrap up

Presentations of Summaries by Session Rapporteurs and General Discussion

17:00 **End of Meeting Day 2**

Sunday, January 15

Group Excursion and Banquet

(Please bring with you a *bather, towel, and a bottle of water.*)

06:40 Collect lunch package

07:00 Depart from Hotel Grand Chancellor (via arranged bus service)

09:00 Arrive at Portsea office 3755 Point Nepean Rd, Portsea VIC 3944:

Group 1: Sea Kayaking; Group 2: Snorkelling

12:00 Lunch

13:00 Swap activities

Group 1: Snorkelling; Group 2: Sea Kayaking

16:00 Finish and return gear

16:30 Return to Hotel

19:00 Banquet (Location: Footlights Restaurant@Hotel Grand Chancellor)

Monday, January 16 (Location: Chancellor 2@Hotel Grand Chancellor)

9:00 Research Reports

(on-site enrollment, time will be divided by enrolled speakers)

10:45 Coffee Break

12:00 Lunch

End of IFIP WG 10.4 Meeting