



RESEARCH SEMINAR

Blockchain Reliability: Challenges and Opportunities



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Date : 8 January 2024 (Mon)

Time : 10:30 am – 11:30 am

Venue : PQ304

Abstract

In this talk, we will look at recent advancements in blockchain reliability, including software supply chain engineering, chaos engineering, and n-version programming. We will explore the intricacies of the multibillion-dollar software supply chain of Ethereum. This discussion will shed light on the complex dynamics of the Ethereum software supply chain and its implications on the reliability of blockchain technology. We will discuss the concept of chaos engineering in the context of Ethereum blockchain clients, explain how chaos engineering can be leveraged to enhance the resilience and reliability of blockchain systems. The talk will also touch upon the concept of n-version programming, I will explain how designing highly available blockchain nodes using n-version design can significantly improve the dependability of blockchain systems.

About the Speaker

Prof. Martin Monperrus is Professor of Software Technology at KTH Royal Institute of Technology in Stockholm, Sweden. He researches in software engineering, with a focus on software reliability. He counsels the banking and financial sector with regard to distributed ledgers and digital assets.

More info at <https://www.monperrus.net/martin/>