THE HONG KONG POLYTECHNIC UNIVERSITY
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RESEARCH SEMINAR

Move Language and Move Prover: Design Philosophies and New Opportunities

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Abstract

Move is a next generation language for secure, sandboxed, and formally verified smart contracts. In this talk, we will unfold some of the design philosophies of the Move language, including type safety, resource safety, and reference safety, and illustrate how they collectively ensure the robustness of Move programs and support the formal verification of Move code. As Move is ever-evolving, we will also cover some of the new programming paradigms and design patterns added since its inception and show how these additions reveal new opportunities in smart contract design, testing, and verification.

About the Speaker

Dr Meng XU is an early contributor of the Move language and is currently an Assistant Professor in the Cheriton School of Computer Science at the University of Waterloo, Canada. His research is in the area of system and software security, especially in finding and mitigating vulnerabilities in critical computer systems.

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