Gentilissimi,

siete invitati al seminario di giovedì **13 febbraio 2025 alle ore 15:00**,

presso la **Sala Riunioni** del Dipartimento di Matematica e Informatica, tenuto dalla

Dott.ssa Adele Veschetti del TU Darmstadt dal titolo:

SmartML: Enhancing Security and Reliability in Smart Contract Development.

Di seguito l'abstract dell'intervento:

Smart contracts, as integral components of blockchain technology, play a pivotal role in automating and executing agreements in a trust-free manner.

However, ensuring the correctness and reliability of smart contracts remains a significant challenge due to their complex nature and potential vulnerabilities. To address this challenge, we propose SmartML, a novel modeling language tailored specifically to smart contracts. This paper presents an in-depth exploration of the features, advantages, and applications of the proposed modeling language. By providing a precise and intuitive means of describing smart contract behaviors, SmartML aims to support the development, verification, and validation of smart contracts, ultimately reinforcing trust and confidence in them. Furthermore, we discuss the relation of existing blockchain technologies to our modeling language and highlight its potential to streamline integration efforts. We posit SmartML as a versatile tool to advance interoperability, reliability, and security of smart contracts in blockchain ecosystems.

Un caro saluto,

Ivan Mercanti