Computer Science
Seminar Series – Spring 2026

Rethinking Digitalization: Blockchain, Identity, and Tokenized Assets.

Monday, April 6th, 2026, 11:00am - 12:00pm PST Time

Room 8-48.

Abstract

Digitalization is no longer simply about converting analog processes into digital ones; it is about redefining how trust, ownership, and identity function in an increasingly interconnected world. As societies move deeper into the digital era, fundamental questions arise: Who controls digital identity? How do we guarantee authenticity and ownership online? And how can digital systems reduce friction while preserving trust? This keynote explores how blockchain technology challenges and expands traditional models of digitalization. By introducing decentralized trust infrastructures, blockchain enables new forms of digital identity and the tokenization of both physical and intangible assets. From self-sovereign identity to tokenized real-world assets, these innovations are reshaping economic models, governance structures, and the way individuals interact with institutions. The talk will provide conceptual foundations, examples, and a forward-looking perspective on what it means to rethink digitalization in a tokenized world.

Bio

Dr. López Pimentel is a Faculty Researcher at Universidad Panamericana, Mexico. He serves as Head of the Computing Department, is a Full-Time Professor (Rank B), and is a Level I member of Mexico's National System of Researchers (SNI). He holds a Ph.D. and a Master's degree in Computer Science, both from Tecnológico de Monterrey, Mexico. He earned his Bachelor's degree in Computer Systems Engineering from Tecnológico de Tuxtla Gutiérrez, Mexico. His current research focuses on Distributed Computing and applications of blockchain technology.

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