



UNIVERSITÀ DI PAVIA

Dipartimento di Ingegneria Industriale e dell'Informazione

Three Webinars about blockchains

[ZOOM LINK](#)

Speaker: Ing. Luca Bianchi, Ph. D. (Neosperience)*

Blockchain: architecture, tools, and applications

May 5, 2022, 9.30-11.00 a.m.

In just a few years blockchain developed from a fancy term amongst crypto investors to a solid technology to handle decentralized transactions and trustless systems, empowering a wide range of applications. In this conference, we'll deep dive into the underlying technology, and the intrinsic architecture of the most adopted blockchains Bitcoin and Ethereum.

Programming the web 3.0: smart contracts

May 12, 2022, 9.30-11.00 a.m.

Smart contracts will be presented in detail with available tools and languages. The EVM is described with its constraints, outlining all the EVM-compatible alternatives. Then tokens, oracles, and minting concepts are introduced, as well as the most common smart contract standards: ERC-20 and ERC-721.

Intro to Decentralized Finance

May 16, 2022, 11.15-12.45 a.m.

How blockchain technologies are enabling a process aiming to revolutionize the intimate nature of financial ecosystems? We'll discuss how smart contracts can be leveraged to build stable coins, financial reserves and issue bonds and loans without the need for a central authority.

Decentralized Finance, DeFi for short is changing the shape of finance, putting intermediaries at stake. Concepts such as liquidity pools, staking, and automated market maker (AMM) contracts are explained with examples.

*Luca Bianchi, PhD holds the role of Chief Technology Officer in Neosperience, where he follows issues related to AI and new technologies, leading the Research and Development group. AWS Serverless Hero, since 2019 also covers the role of Chief Technology Officer of WizKey, the newborn startup within Neosperience, vertical on blockchain technologies.

Organizer: Prof. Maria Grazia Albanesi (mariagrazia.albanesi@unipv.it)

The webinars will be in English.