Date: 24th November 2021

Time: 16:30 PM - 17:30 PM Indian Time (+4:30 hours Paris time)

Venue: Zoom Meeting

Title: IOTA, from blockchain to DAG DLTs: technology and use cases

Speaker: Dr. Michele Nati and Dr. Nenad Gligoric

Summary of talk: This seminar will analyse the difference between traditional blockchain and new direct acyclic graph (DAG) based distributed ledger technologies (DLTs), representing the new generation of scalable and more green blockchain solutions. We will explain how IOTA leverages DAGs to overcome some of the blockchain limitations and create a blockchain technology that is suitable for high volume and high velocity of data, like those generated in various Internet of Things scenarios. We will discuss the security of the protocol and present a range of real world use cases where IOTA is successfully applied.

Michele Nati, PhD is Head of Telco and Infrastructure Development at IOTA Foundation. He is responsible for driving innovation in the Telco and IoT Sector, to increase secure data sharing. He leads a number of EU Research and Innovation projects using IOTA distributed ledger technologies and tools in smart cities/mobility, smart mining, smart health and e-commerce. Before joining the IOTA Foundation, Michele worked as Lead Technologist for Data and Trust at Digital Catapult. He worked on a number of projects and initiatives to increase GDPR compliance and transparency on personal data use. He championed the concept of standard Personal Data Receipts. To date, Michele matured over 15 years of research and development in the Internet of Things, both in Academia and SMEs. During his academic career, he was Senior Researcher at 5G Innovation Center, University of Surrey, leading the deployment of Internet of Things solutions. Michele holds a PhD in Computer Science from Sapienza University of Rome and he co-authored over 40 international peer-reviewed scientific publications.

Nenad Gligoric, PhD is technical lead at Telco and Infrastructure Development at IOTA Foundation. He was engaged as a system engineer in Ericsson on FP7 projects: HOBNET, EXALTED, OUTSMART, SmartSantander. In DunavNET his work was oriented on the turnkey IoT services, and delivering products and solutions in a number of commercial and research H2020 projects as a full stack developer, research scientist and project manager. Nenad has held the position of associate professor from 2016-2021, at Faculty of Information Technologies, Alfa University, Serbia. He published more than 30 papers in peer-reviewed journals and conferences.