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Ph.D. Program in Electronics, Computer Science and Electrical Engineering

SEMINAR

Revolution and Security: Navigating the World of Vector Databases

Stefano Belloni – Miguel Fernando Stoppa

Spike Reply

May 7, 2025 - h. 11:00

Magenta Seminar Room, D Floor

Department of Electrical, Computer and Biomedical Engineering

Abstract: In a world where Artificial Intelligence is driving massive transformations and data breaches are becoming a constant threat, we need to rethink the way we manage and protect our data. This session will take you on a journey into the dynamic and rapidly evolving world of Vector Databases, a groundbreaking technology that is revolutionizing the way we handle large volumes of data. From Machine Learning and Semantic Search to managing unstructured information, Vector Databases are at the forefront of innovation. However, these advancements come with serious security challenges. We will explore these risks, break down real-world vulnerabilities, and provide actionable strategies to protect your data and systems.

Biographies: **Stefano Belloni** (Consultant): with three years of experience in the field of IT security where he has acquired more expertise in Database Security, in particular regarding Database Protection applied to Databases containing GDPR-compliant data.

Miguel Fernando Stoppa (Consultant): experienced Cyber Security Consultant with over two years at Reply, I am specialized in data protection and data loss prevention (DLP). Throughout my career, I have gained significant expertise in programming and implementing advanced anti-fraud solutions, helping to protect companies from emerging threats.

Organizer

Prof. M.C. Calzarossa

Ph.D. Coordinator

Prof. I. Cristiani