



UNIVERSITÀ  
DI PAVIA

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

## **SEMINAR**

### **Cybersecurity: The Akamai Chronicles**

*The Agentic Web: Navigating the New Era of Bots and Cybersecurity*

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Alessandro Colombelli – Riccardo Feletto**

**Akamai**

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Magenta Seminar Room, D Floor

Department of Electrical, Computer and Biomedical Engineering

**Abstract:** The internet is entering a new era: the *Agentic Web*, a digital ecosystem increasingly powered by autonomous agents capable of interacting, reasoning, and acting at machine speed. But while AI-driven agents are transforming the web, they are also accelerating a broader evolution in automated threats. From large-scale web scraping and advanced botnets to the rise of DDoS-as-a-Service platforms, cyberattacks are becoming faster, more industrialized, and easier than ever to launch.

In this talk, we will explore the evolving world of automated threats and how malicious automation is overwhelming industries across the globe. Through real-world examples and threat scenarios, participants will discover how modern bots target web applications and APIs, how scraping ecosystems and bot-driven abuse operate at scale, and why traditional perimeter defenses are no longer sufficient to protect today's hyperconnected infrastructure. We will also examine how Akamai's globally distributed edge platform—processing more than 5 trillion requests every day—helps organizations detect and mitigate threats in real time while remaining almost invisible to the users who rely on it. From bot mitigation and API security to runtime protection at the edge, discover how Akamai helps defend a digital world where automation never sleeps and milliseconds matter.

**Biographies:** **Susanna Simari Benigno**, a proud graduate in computer engineering of the University of Pavia, is Security Consultant at Akamai. **Valentina Angeleri**, a proud graduate in electronic engineering at the University of Pavia, is a Solutions Engineer at Akamai working in the cloud and security space. **Serena Riganti** is an experienced passionate Sales Executive at Akamai who works in the cybersecurity world with the most important Italian customers and players. **Alessandro Colombelli** is an IT Professional with over two decades of experience in the industry, holding the position of Security Architect Senior at Akamai Global Service. **Riccardo Feletto** is a Computer Engineering graduate from the University of Verona with a strong focus on cybersecurity. With 10 years of experience—starting from his very first penetration tests during university—he has grown into a true cyber ninja, and he is a proud Security Architect at Akamai.

**Organizer**

Prof. M.C. Calzarossa

**Ph.D. Coordinator**

Prof. I. Cristiani