



Direzione Ricerca,
Innovazione e
Internazionalizzazione

**UNIVERSITÀ
DI TORINO**

ID

VP_104_INF

Visiting Professor Program Academic Year 2025/2026

TEACHING COMMITMENT: 12 hours

COURSE TITLE

Knowledge Management and Information Extraction from Structured and Unstructured Data for Process Mining (Techniques, Algorithms, and Tools)

TEACHING PERIOD

II semester

SCIENTIFIC AREA

Informatics

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

The course will provide an overview of main topics in the Process Mining discipline to discover and analyze temporal processes, including practical techniques and tools for visualizing processes, identifying bottlenecks, performing variant analysis, introducing predictive process monitoring, comparing time series data in a 'conformance checking' perspective, and processing data to extract information from text in event log format.

LEARNING OBJECTIVES

- Learning techniques and tools to extract, analyze, and visualize meaningful information from time series or temporal data.
- Familiarise with the methods, algorithms and tools of Process Mining for the automated analysis of flexible processes.

- Introduce algorithms and techniques of Process Discovery.
- Variant analysis of business processes.
- Conformance checking techniques.
- Support monitoring and decision-making of organisations.

OTHER ACTIVITIES BESIDE THE COURSE

VISITING PROFESSOR PROFILE

The ideal candidate should have strong experience in Process Mining and Business Process Management, with a research focus on data-driven process analysis using techniques and tools from the Process Mining discipline. Additionally, the/she should have expertise in data analysis to support decision-making based on event data collected from logging systems.

CONTACT REFERENT

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