UNIVERSITÉ DE FRIBOURG
UNIVERSITÄT FREIBURG

DEPARTEMENT D'INFORMATIQUE
DEPARTEMENT FÜR INFORMATIK

INFORMATICS COLLOQUIUM

Speaker:

Dr. Riccardo Tommasini, INSA Lyon

Unframed: Stream Processing Beyond Windows

Abstract:
Stream processing systems have long relied on windows as the primary abstraction to reason about unbounded data. While effective, windows impose rigid temporal boundaries that often conflict with the dynamic and heterogeneous nature of real-world streaming applications. In this talk, we explore an alternative vision: window-less stream processing—a paradigm that moves away from user-provided time slicing and towards a more requirement-oriented, expressive, and semantically coherent model of computation over unbounded data.

Bio:
Riccardo Tommasini is a Maître de Conférence (Associate Professor) at INSA Lyon, LIRIS Lab, and a Visiting Professor at the University of Tartu, Estonia. Riccardo holds a Ph.D. Cum Laude from the Department of Electronics and Information of the Politecnico di Milano. His thesis, titled Velocity on the Web, investigates the velocity aspects that concern the Web environment. His research interests span Stream Processing, Knowledge Graphs, Database Systems, Logics and Reasoning, and Programming Languages. His research has been recently funded by the French National Research Agency ANR.

Date and time:	*Thursday, October 2nd, 2025, 10.00 am*
Location:	*Pérolles 21, room F130, Bd de Pérolles 90, Fribourg*
Contact person:	*Prof. Philippe Cudré-Mauroux*

The colloquium is free and open to the public.