

Temporal Databases: Applications and State-of-the-Art.

Alejandro Vaisman

Departamento de Computación, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires
`avaisman@dc.uba.ar`

A wide range of database applications manage time-varying data. In contrast, existing database technology provides little support for managing such data. The research area of temporal databases aims to change this state of affairs by characterizing the semantics of temporal data and providing expressive and efficient ways to model, store, and query temporal data. In this talk we will present a state-of-the-art in temporal database research. After introducing fundamental temporal database concepts, we will review the history of this field, from temporal relational databases to temporal extensions to multidimensional and XML databases.