SEMINARI RICERCA E FORMAZIONE

Giovedì 20 Novembre 2025

ore 10:00-11:00

Lab Informatica C193

SEMINARIO/CORSO APERTO A:
Docenti, Assegnisti, Dottorandi, Borsisti, Studenti

SEMINARIO/CORSO IN LINGUA:
Inglese

Timed systems and Strategic abilitie

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This talk presents the basic notions for analysing real-time systems and multi-agents systems exhibiting strategic abilities. After introducing models based on timed automata, we define the temporal logics that allow for expressing properties of the system considered. These not only describe the temporal aspects, i.e. the order of events during executions, but also timing constraints, i.e. the timeframes for events to occur. Moreover, thanks to their strategic abilities, agents may follow a plan (strategy) in order to reach a goal. This is expressed in properties with a strategic operator. Synthesizing strategies for satisfying a property depends on the knowledge of agents and their memory, captured by several semantics. Finally, some hints for model-checking will be given, thus giving a flavour of this active research area.