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Gastvortrag

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Hypothetical Temporal Reasoning from Specifications of Database Updates in the Situation Calculus

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Abstract

We extend the specification of the transaction based dynamics of a relational database, given in the situation calculus according to a formalism proposed by Raymond Reiter, with the specification of the evolution of history enconding auxiliary relations. In this way we can reason about a hypothetical past evolution of the database, without having to physically update the database, keep the data at all database states, and query the whole database trajectory. With this technique, among other applications, we answer temporal queries, we prove dynamic integrity constraints, and we provide static preconditions for history dependent transactions. For this purposes we combine situation calculus and past temporal logic.

Gastgeber: Prof. Dr. Georg Lausen

Alle Interessenten sind recht herzlich eingeladen.

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