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Running a Prover in a Prover - Isabelle as a Meta-Logic

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Speaker:
Jørgen Villadsen

Title:
Running a prover in a prover - Isabelle as a meta-logic

Abstract:
Isabelle provides a foundation of mathematics and I show how you can run your own verified prover directly in the Isabelle prover or as a stand-alone program. I describe the formalization of syntax and semantics and discuss the proof of soundness and completeness for a simple prover for first-order logic.