

Preface

This volume contains selected papers from the 8th International Workshop On User Interfaces for Theorem Provers (UITP'08). UITP'08 was held as a one-day satellite workshop of the 21st International Conference on Theorem Proving in Higher Order Logics (TPHOLs'08) on August 22nd 2008 in Montréal, Canada.

The UITP workshop series brings together researchers interested in designing, developing and evaluating interfaces for interactive proof systems, such as theorem provers, formal methods tools, and other tools manipulating and presenting mathematical formulas. Previous workshops have been held in Glasgow (1995), York (1996), Sophia-Antipolis (1997), Eindhoven (1998), Rome (2003), Edinburgh (2005), and Seattle (2006). In 2003 UITP was colocated with TPHOLs'03, in 2005 it was organized as an ETAPS'05 satellite workshop and in 2006 as a FLOC'06 satellite workshop.

The UITP'08 workshop has solicited contributions from the theorem proving, formal methods and tools, and HCI communities, both to report on experience with existing systems, and to discuss new directions. The topics covered by the workshop include, but are not limited to:

- Application-specific interaction mechanisms or designs for prover interfaces
- Experiments and evaluation of prover interfaces
- Languages and tools for authoring, exchanging and presenting proof
- Implementation techniques (e.g. web services, custom middleware, DSLs)
- Integration of interfaces and tools to explore and construct proof
- Representation and manipulation of mathematical knowledge or objects
- Visualization of mathematical objects and proof
- System descriptions

Overall, nine papers were submitted to the workshop each being reviewed by three members of the programme committee and of which six were selected for publication in this special issue. At the workshop, eight papers were presented and in addition there were invited system demonstrations by Matt Kaufmann and J Strother Moore, by Sam Owre and by Deborah McGuinness.

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