

ThEdu'21, Theorem Proving Components for Educational Software

Programme — 11 July 2021

All sessions (except the Welcome session) are in ZoomRoom 1 (Participation & Zoom).

All time-slots for presentations assume a 10min final slot for Q&A.

All times in Eastern Daylight Time (EDT/USA) (+6 CEST)

07:45–08:00 — Welcome and Announcements — Location: ZoomLobby		
08:00–10:00 — ATPs in Geometry — Chair Walther Neuper		
8:00–8:30	Towards Next Step Guidance in Triangle Construction Problems	Vesna Marinković and Filip Maric
8:30–9:00	Four Geometry Problems to Introduce Automated Deduction in Secondary Schools	Pedro Quaresma and Carlos Reis,
9:00–9:30	Symbolic comparison of geometric quantities in GeoGebra	Zoltán Kovács and Robert Vajda
9:30–10:10	Proof toys: a proof assistant for beginners (Demonstration)	Crispin Perdue
10:10–10:30 — Coffee Break		
10:30–12:00 — ATPs in Geometry & Isabelle, in Education and Accessible — Chair Pedro Quaresma		
10:30–11:00	Automated Discovery of Geometrical Theorems in GeoGebra	Zoltán Kovács and Jonathan H. Yu
11:00–11:30	Teaching Intuitionistic Propositional Logic Using Isabelle	Jørgen Villadsen, Asta Halkjær From and Patrick Blackburn
11:30–12:00	Make Isabelle Accessible!	Walther Neuper, Klaus Miesenberger, Bernhard Stöger and Reinhard Koutny
12:00–12:30 — Lunch Break		
12:30–14:00 — Automated Deduction Educational Applications — Chair Walther Neuper		
12:30–13:00	Learning Theorem Proving by Example — Implementing JavaRes	Adam Pease and Stephan Schulz
13:00–13:30	Evolution of SASyLF 2008-2021	John Boyland
13:30–14:00	A drag-and-drop proof tactic	Pablo Donato, Benjamin Werner and Pierre-Yves Strub
14:00–14:30 — Coffee Break		
14:30–16:20 — Invited Talk & Automated Deduction Educational Applications — Chair João Marcos		
14:30–15:20	Invited Talk — How can we make formal proof teachable?	Gilles Dowek
15:20–15:50	Automated Grading of Automata with ACL2s	Ankit Kumar, Andrew Walter and Panagiotis Manolios
15:50–16:20	Automated Instantiation of Control Flow Tracing Exercises	Clemens Eisenhofer and Martin Riener
16:20–16:40 — Closing and Business Meeting — Chair Pedro Quaresma		
16:20–16:40	Closing and Business Meeting	ThEdu'21 Chairs