

Activities of WG 2 (ATP)

Admin

1. Pascal Fontaine (U Liege, Belgium) ended his term of office
[WG leader until August 2022, WG vice-leader until Sep 2023]
2. Mathias Fleury (U Freiburg, Germany) follows Pascal
as WG 2 vice leader

Thanks a lot to Pascal for his dedicated services!

... and to Mathias for his readiness to support EPN/WG2

Activities of WG 2 (ATP)

Meetings

1. Dedukti/ATP developers meeting (20 participants)
May 11-13, 2023 in Liege, Belgium
Organizers: Steen/Fontaine
Focus: Tool development, tutorials
2. TPTP Tea Party (approx. 15 participants)
July 13, 2023 in Paris-Saclay/Gif-sur-Yvette, France
Organizers: Blanqui/Sutcliffe/Steen/Fontaine
Focus: System standards, tool survey

Activities of WG 2 (ATP)

Deliverables

D2. Inventory of automated theorem provers producing proofs, description of proof formats, and inventory of checking tools for these proof formats.

- Available at GitHub: <https://github.com/EuroProofNet/ATP/wiki>
- Entries for most major formats available
- Entries for reasoning systems growing (currently: 12)

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Home

Alexander Steen edited this page on May 12 · 23 revisions

Edit

New page

EuroProofNet Automated Theorem Prover wiki



EuroProofNet is the European research network on digital proofs. EuroProofNet aims at boosting the interoperability and usability of proof systems.

EuroProofNet is a [COST action](#) started on November 2021 gathering more than 220

researchers from 30 different countries.

The aim of [working group 2 \(WG 2\)](#) is to promote the output of detailed, checkable proofs from automated theorem provers. Work is under way for FOL/HOL theorem provers and SMT solvers, but the expressivity of their input languages renders the task significantly more complicated than e.g., in the propositional SAT world, with a higher need of coordination.

The main purpose of this wiki is to provide

- an inventory of automated theorem provers producing proofs
- description of proof formats
- an inventory of checking tools for these proof formats.

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<https://github.com/EuroProofNet>



Activities of WG 2 (ATP)

Deliverables

D9. Software for translating proof formats used by automated theorem provers to Dedukti.

- Tools available →
(see europroofnet.github.io/deliverable9)
- More work underway
(see also activity report of dev meeting)

Deliverable 9

Software for translating proof formats used by automated theorem provers to Dedukti.

- [ZenonModulo](#)
- [ArchSAT](#)
- [iProverModulo](#)
- [Ekstrakto](#): TSTP to Lambdapi
- [Skonvertor](#) deskolemizer
- [GDV-LP](#): TPTP to Lambdapi/FOL ([doc](#))

Activities of WG 2 (ATP)

Publications

We refer to the EPN publication list.

One additional remark:

- CEUR Workshop proceedings published of PAAR workshop
Co-located with WG2 meeting in August 2022 in Haifa, Israel →

 <p>CEUR Workshop Proceedings</p> <p>ceur-ws.org ISSN 1613-0073</p>	 <p>CC BY</p>	<p>Vol-3201 urn:nbn:de:0074-3201-6</p> <p><small>Copyright © 2022 for the individual papers by the papers' authors. Copyright © 2022 for the volume as a collection by its editors. This volume and its papers are published under the Creative Commons License Attribution 4.0 International (CC BY 4.0).</small></p>
<p>PAAR 2022 Practical Aspects of Automated Reasoning 2022</p> <p>Proceedings of the Workshop on Practical Aspects of Automated Reasoning Co-located with the 11th International Joint Conference on Automated Reasoning (FLoC/IJCAR 2022)</p> <p>Haifa, Israel, August, 11 - 12, 2022.</p> <p>Edited by</p> <p>Boris Konev * Claudia Schon ** Alexander Steen ***</p>		