NII Shonan Meeting: The 14th Agda Implementors Meeting

Shonan Village Center, September 8-14, 2011

Organizers:

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(1) Overview

Agda is a dependently typed functional programming language. It has inductive families, i.e., data types which depend on values, such as the type of vectors of a given length. It also has parametrised modules, mixfix operators, Unicode characters, and an interactive Emacs interface which can assist the programmer in writing the program.

Agda is a proof assistant. It is an interactive system for writing and checking proofs. Agda is based on intuitionistic type theory, a foundational system for constructive mathematics developed by the Swedish logician Per Martin-Löf. It has many similarities with other proof assistants based on dependent types, such as Coq, Epigram, Matita and NuPRL.

The Agda Intensive Meetings (called Agda Implementors Meetings in the earlier days) have been held twice a year in principle since 2004. The record of recent meetings can be found in the following URL:

http://wiki.portal.chalmers.se/agda/pmwiki.php?n=Main.AgdaMeetings

The AIM meetings are really "Agda Users and Implementors Meetings," that is, meetings where Agda users and implementors get together and exchange ideas, write Agda code, while simultaneously implementors work on modifications of the Agda system.

The AIM meeting usually consists of talks and code sprint sessions. Talks are invited by the organiser, and all participants are expected to propose his/her own project for a code sprint session.

At the start of AIM, the participants get together and are expected to participate in projects they wish to take a part in. Then it is discussed which project to start. A short meeting is held at the end of every day so that each project reports its progress. A longer meeting is held at the end of the whole AIM to summarize the result and future of the project.

Everyone who is seriously interested in Agda, not only implementors but those who are

willing to write code in Agda or documentation about Agda is welcome to the meeting. They are expected to make a constructive contribution to the code sprint.

(2) List of invitation:

Abel, Andreas / LMU Munich / andreas.abel@ifi.lmu.de

Altenkirch, Thorsten /University of Nottingham / txa@Cs.Nott.AC.UK

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