

Project PURE

Program Understanding and Re-engineering — Calculi and Applications

Project Workshop I

When & Where:

13, 14 September 2004
Sala de Reuniões do DI
Universidade do Minho

Call for Participation The workshop aims at bringing together all the researchers and students involved in the PURE project as well as other researchers who might be interested in the project themes: *the development of mathematical calculi for program understanding and re-engineering*.

The workshop will consist of a number of research talks related to the project tasks and two panel discussions. It will also include an invited lecture by Dr Alberto Pardo (Montevideo, Uruguay), who will be visiting the Project in September.

Context

PURE Project
FCT
POSI/ICHS/44304/2002
www.di.uminho.pt/pure

13 September

- 09.30 *Generalizing the Hylo-Shift Law*
(Jorge Sousa Pinto, Minho (PURE team))
- 10.30 Coffee Break
- 11.00 *Code Conversion for Pointfree Representation*
(Miguel Vilaça, Minho (PURE team))
- 11.45 *Invariants in Program Calculation*
(José Carlos Bacelar Almeida, Minho (PURE team))
- 12.30 Lunch
- 14.30 *Designing Databases with 'Simplicity'*
(José Nuno Oliveira, Minho (PURE team))
- 15.15 *Objectification of Formal Specifications*
(Miguel Cruz, SIDEREUS)
- 16.00 *Formal Models for Software Connectors*
(Marco António Barbosa, Minho (PURE team))
- 16.45 Coffee Break
- 17.00 **Discussion:** *Pointfree vs Pointwise (and how to live with them)*
(moderated by Alcino Cunha, Minho (PURE team))

14 September

- 09.30 Invited Lecture: *A Program Fusion Tool*
(Alberto Pardo, Montevideo, Uruguay)
- 10.30 Coffee Break
- 11.00 *Implementation of Program Understanding in HASKELL*
(Joost Visser, Minho (PURE team))
- 11.45 *More Pointless Generic Programming*
(Bruno Oliveira, Oxford)
- 12.30 Lunch
- 14.30 *Simulation and Refinement in a Coalgebraic Setting*
(Luís Soares Barbosa, Minho (PURE team))
- 15.15 *Design, Implementation and Animation of Spreadsheets*
(João Saraiva, Minho (PURE team))
- 16.00 *Generalizing LR Parsing*
(João Fernandes, Minho (PURE team))
- 16.45 *CCS goes .NET*
(Nuno Rodrigues, Minho (PURE team))
- 16.45 Coffee Break
- 17.00 **Discussion:** *The HASKELL MINHO LIBRARY*
(moderated by Joost Visser, Minho (PURE team))
- 18.00 **Brainstorming:** *PURE Year 2: Ideas, Directions, Proposals*