

AS

29th Aug - Abstract } CGU
5th Sept - Paper submission

Paper Outline

Setting a GIT account: Amey

Title: An uniform framework for
liveness and strictness analysis.

Abstract: AS

Introduction: Amey

Target Language: Same

Operational Semantics:

Liveness Basics and Notations

~~Analysis: Liveness and strictness:~~
AS with Prasanna

~~Proof of correctness~~

~~Summary of the automaton generation~~

~~Inserting eager evaluation statements~~

~~Results~~

~~Conclusions~~

An example which demonstrates
the need for strictness analysis:
Amey and Prasanna — Tuesday
3 pm.

Related work - Prasanna

Stricness analysis example
on the next page

$$\text{lgo } z [] = z$$

$$\text{lgo } z (x:xs) = \text{lgo } (f z x) xs$$

Assume that $LF_f^1(\sigma) = LF_f^2(\sigma) = \varepsilon$

$$LF_{lgo}^1(\sigma) = \sigma \cap LF_f^1(LF_{lgo}^1(\sigma))$$

$$LF_{lgo}^2(\sigma) = \varepsilon \cup 0. \boxed{\begin{array}{l} LF_f^2(LF_{lgo}^1(\sigma)) \cup \varepsilon \\ \cup 1. LF_{lgo}^2(\sigma) \cup \varepsilon \end{array}}$$