

Exam report for COMP4181/9181 (13s2)

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Critical assessment of Paper 1.

Problem that the paper tries to address

Jan Bracker and Andy Gill's technical paper, *Sunroof: A Monadic DSL to Generate JavaScript*, attempt to generate JavaScript programs through the domain specific language, *Sunroof*, which is embedded in Haskell. They discuss the usefulness of JavaScript (e.g. graphical canvases, event handling, and first-class functions), but also note that it lacks some desirable features, such as Haskell's static typing.

Bracker and Gill propose Sunroof as an alternative to JavaScript, since Sunroof is able to introduce many of Haskell's features to programmers that JavaScript is unable to natively facilitate (e.g. a threading model, a static type checker, etc.). As expected, Sunroof has a foreign-function interface, which allows the extension of Sunroof's interface possible.

Bracker and Gill implement Sunroof through a monad similar to the IO monad found in Haskell.

Coverage of related work

Originality and technical soundness of the underlying ideas

Evaluation of the presented approach

References

This section is concerned with other research papers that have been alluded to in the critical analysis of Paper 1.

End of critical assessment of Paper 1.

Critical assessment of Paper 2.

Problem that the paper tries to address

Coverage of related work

Originality and technical soundness of the underlying ideas

Evaluation of the presented approach

References

This section is concerned with other research papers that have been alluded to in the critical analysis of Paper 2.

End of critical assessment of Paper 2.

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The purpose of this page is to prevent accidental scrolling and revealing the identity of the student.

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By submitting this report for assessment as the exam component of COMP4181/9181 (13s2), I declare that this submission is my own work, and I have not received any help whatsoever.