Xcos Automatic Layout

References

Name: Chenfeng Zhu
Mentor: Mr. David Clément
Mentor: Mr. Paul Bignier

1 Mathlab

1.1 Automatic Layouting for Simulink

http://de.mathworks.com/videos/improving-modeling-usability-automatic-layouting-for-simulink-93139.html

1.2 Smart Signal Routing

http://blogs.mathworks.com/seth/2012/10/11/smart-signal-routing/

2 Microsoft

2.1 Microsoft Automatic Graph Layout

http://research.microsoft.com/en-us/projects/msagl/

https://github.com/Microsoft/automatic-graph-layout

3 Others

http://graphviz.org/

4 Unused

4.1 Refactoring of Simulink Diagrams via Composition of Transformation Steps

4.1.1 Keywords

Simulink, Refactoring, Transformation

4.1.2 Introduction

It is a modular technique for refactoring Simulink diagrams based on the composition of predefined transformation steps.

4.1.3 Simulink Meta-Model for Refactoring

The criteria for meta-model:

1) All necessary structural properties of diagrams that are required by refactorings should be captured.
2) Support for incomplete diagrams.
3) Layout information must be captured.
4) Establish a degree of granularity that enables local structural changes.

4.1.4 Transformation Steps and Their Composition

4.1.4.1 The effect that a transformation step should be

4.1.4.2 Composite of transformation steps

4.1.5 Specification of Refactorings

4.1.5.1 Replace Goto/From With Explicit Signals

4.1.5.2 Merge Subsystems

4.1.6 Implementation