AHEAD with FeatureIDE

Eduardo Figueiredo

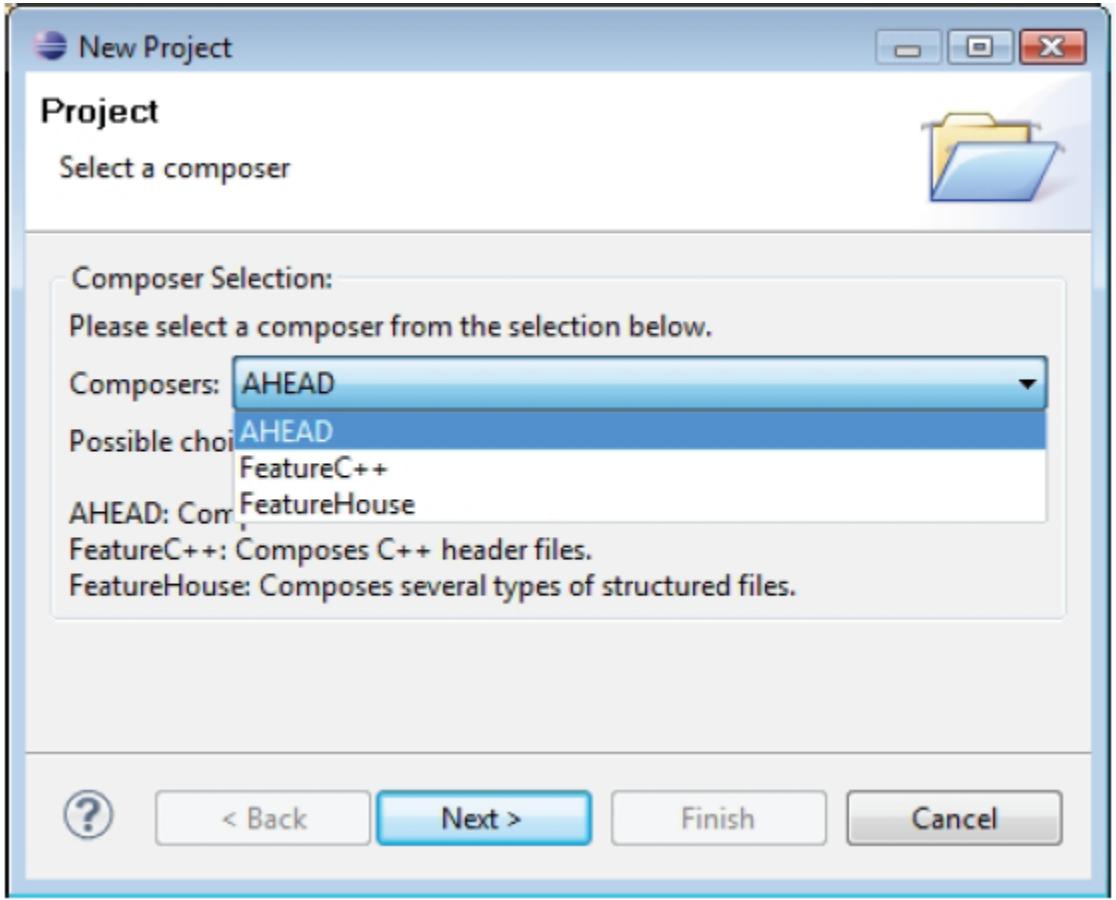
http://www.dcc.ufmg.br/~figueiredo

FeatureIDE

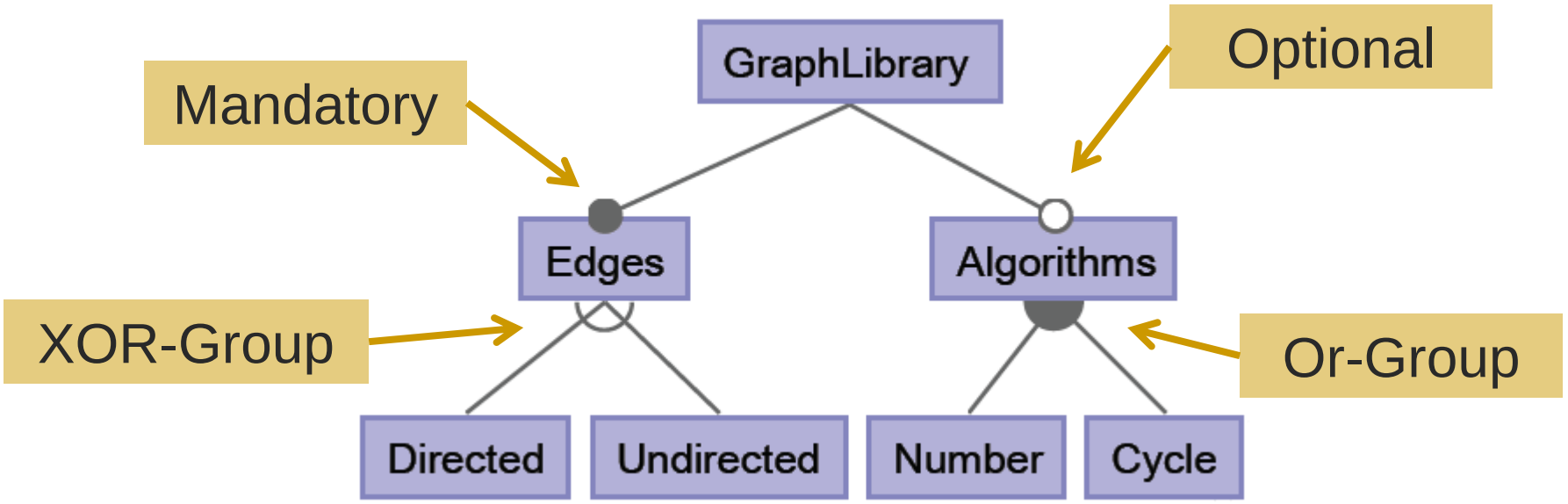
- Eclipse extension for software product line engineering
  - It focuses on feature-oriented programing (FOP)
- It supports several composition languages
  - **AHEAD,** AspectJ, FeatureC++, FeatureHouse, etc.

Project Wizard

- It requires selecting a composition language

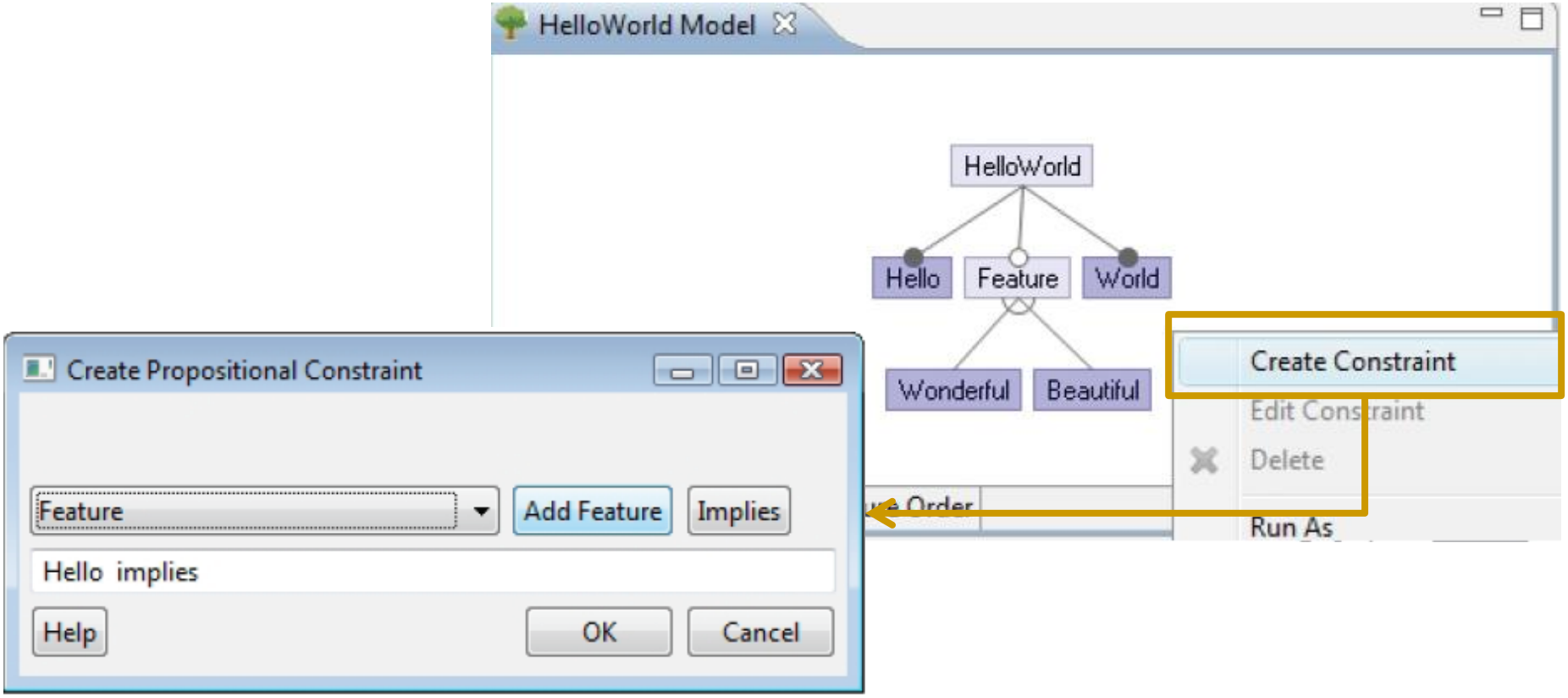


Feature Model Editor



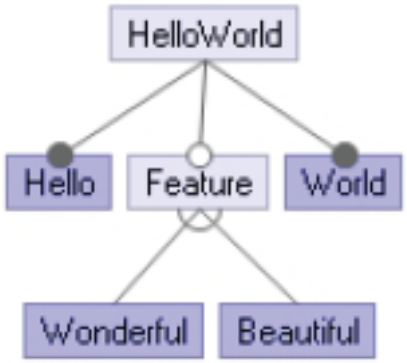
Constraints

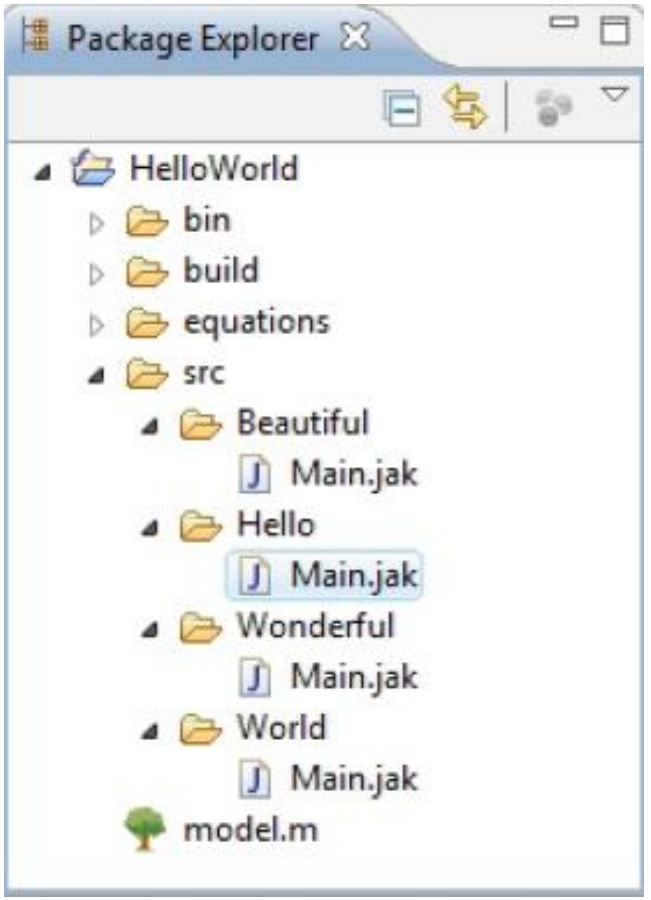
- To create cross-tree constraints



Model to Code

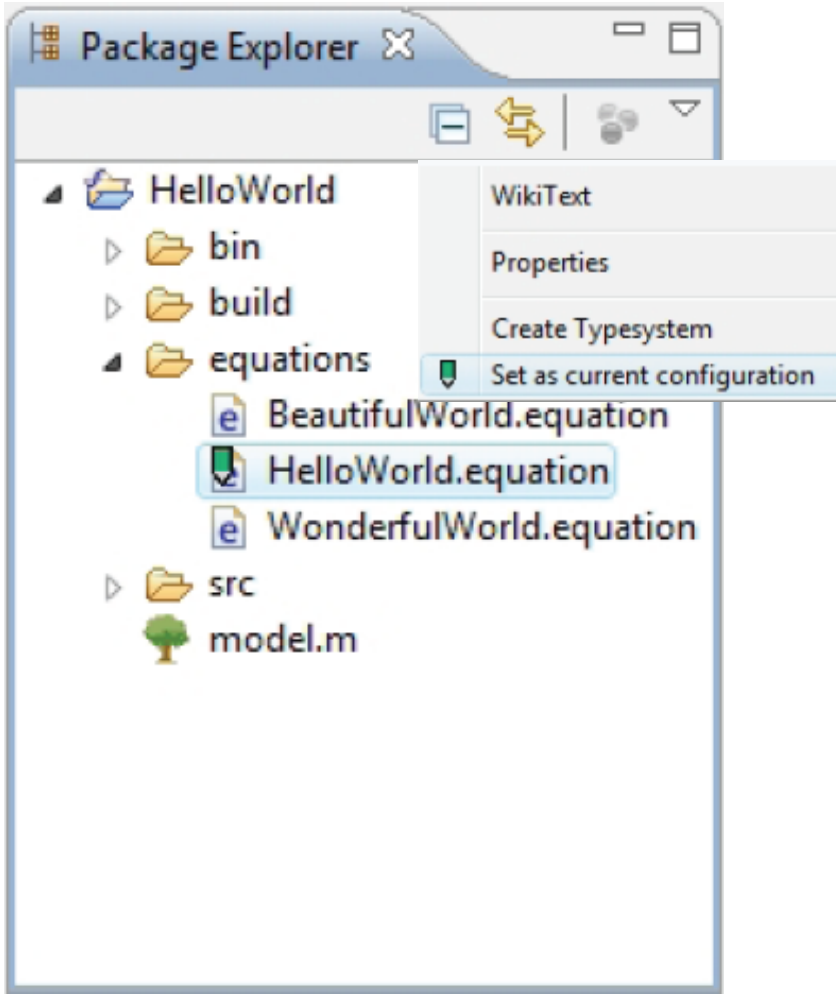
- Source code contains a folder for each concrete feature
  - Including files to compose





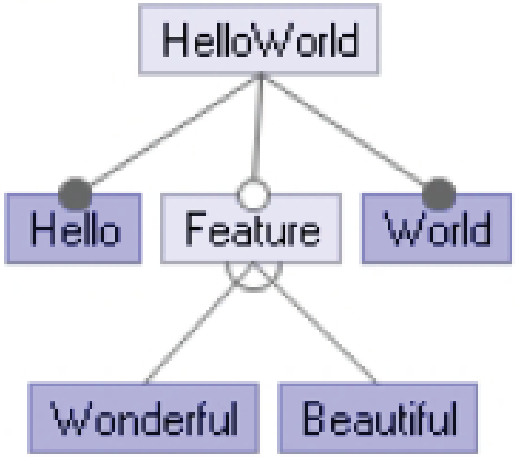
Default Product

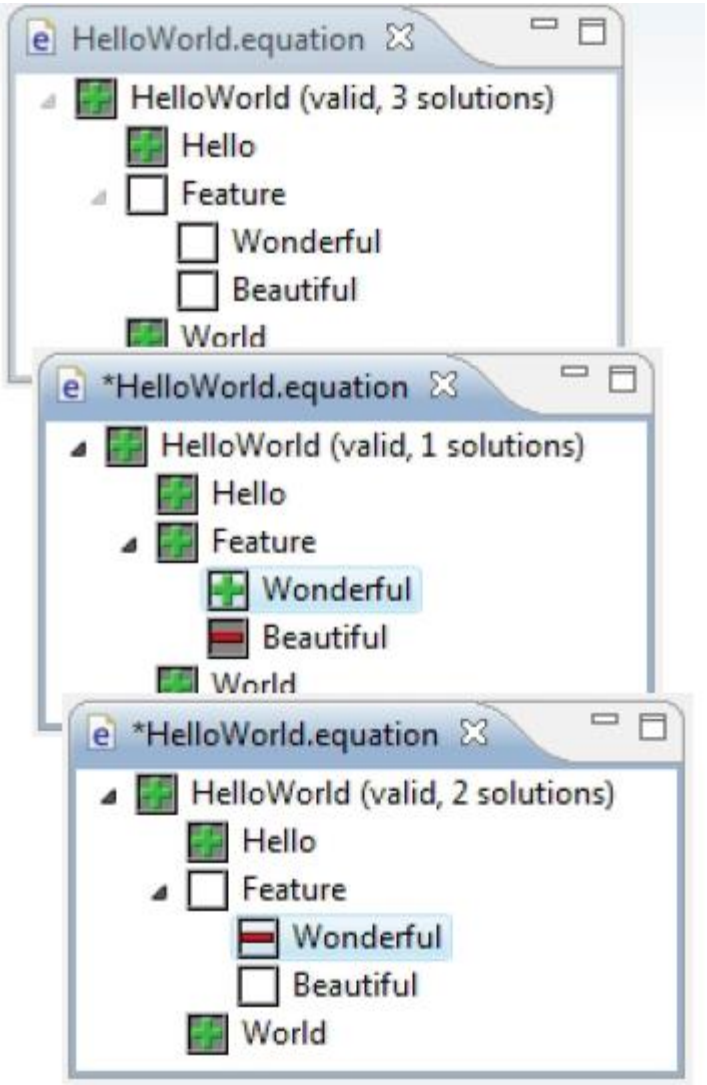
- The equations folder has configurations of products from the feature model
  - Each equation represents a product
  - Current product is marked



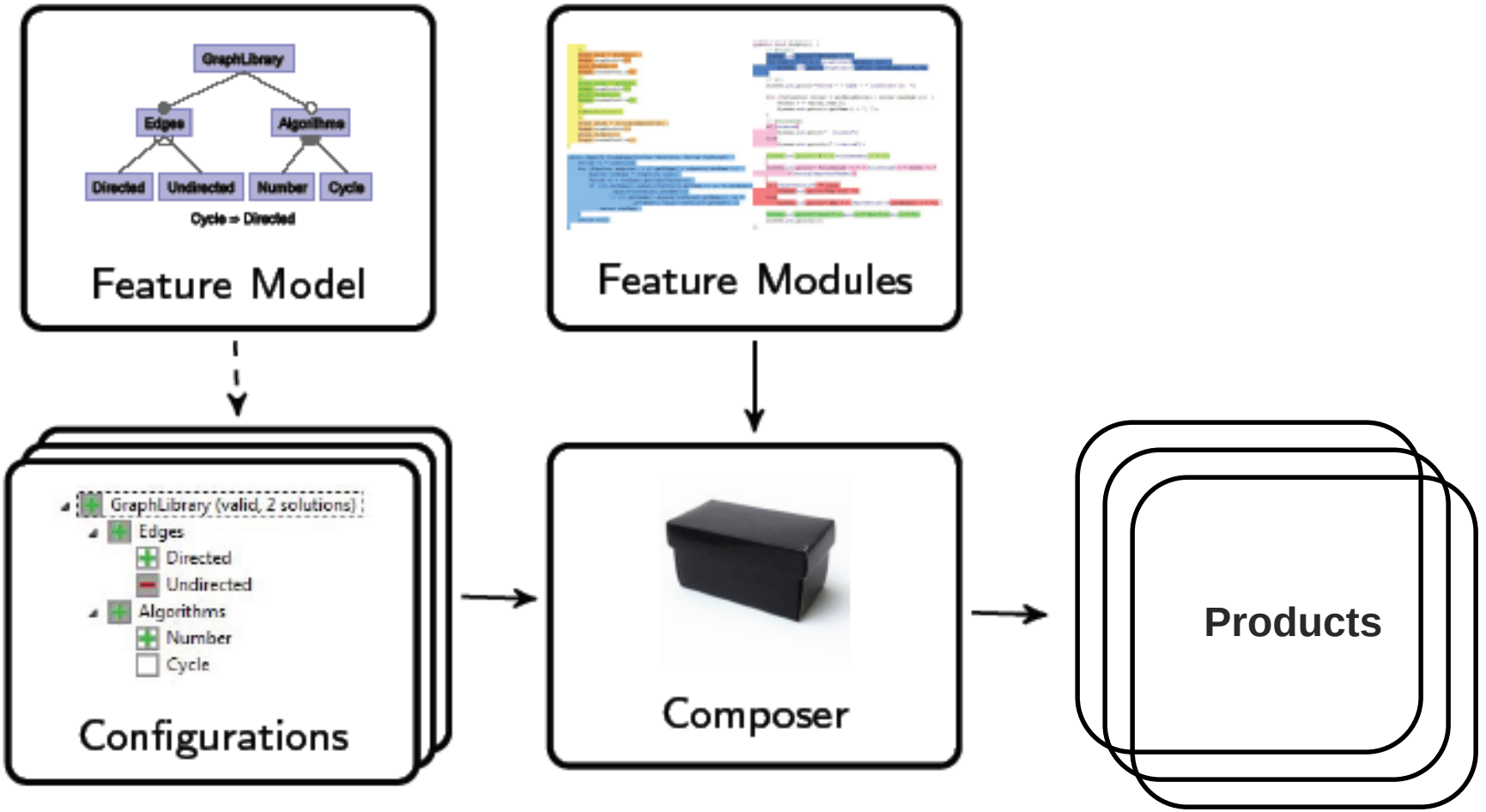
Product Configuration

- Manual selection
- Automatic selection
- Consistency check





The FeatureIDE Process



Bibliography

- Don Batory. **A Tutorial on Feature Oriented Programming and the AHEAD Tool Suite**. International Conference on Generative and Transformational Techniques in Software Engineering (GTTSE), 2005.