



Software Tools for UML

Massimo Felici

IF-3.46 0131 650 5899

mfelici@inf.ed.ac.uk

Overview

- UML and Modelling Tools
- Features of UML Modelling Tools
- Supporting Cooperative Work



UML and Modelling Tools

- CASE (Computer Assisted Software Engineering or Computer Aided Software Engineering) tools
- Programming-Language Independence
- Strong correspondence between Object-Oriented Languages and UML
- Extensibility



Features of UML Modelling Tools

- UML Diagrams
- Compliance to UML Standards
- The Repository (e.g., objects, attributes, operations, states, etc.)
- Shared Access to the Repository
- Integrity of the Repository
- Version Control
- Traceability and Change Management
- Code Generations
- Model Interchange between Tools (e.g., XMI)
- Document Generation

UML Tools (Programming Environments)

UML features	ArgoUML 0.24	Eclipse 3.3/3.2.2	NetBeans 5.5.1	StarUML 5.0.2.1570
Plugins	No	Yes ArgoUML Omondo	Yes NetBeans UML	No
Compliance	1.4	1.4 / 2.0	2.0	2.0
Java Code Generation	Yes	Yes	Yes	Yes
Document Generation	No	Yes	No(?)	Yes
Testing Support	No	Yes	Yes	No
Refactoring	Yes	Yes	Yes	Yes
CVS	No	Yes	Yes	No
Model Interchange	Yes	Yes	Yes	Yes



Readings

- **UML course textbook**
 - Chapter 16 on Software Tools for UML



Summary

- Software Tools for UML
 - UML and Modelling Tools
 - Features of UML Modelling Tools
 - Supporting Cooperative Work

