

Software Engineering Group



School of Business Informatics
and Mathematics



Members



- Prof. Dr. Colin Atkinson (since 2003)
 - Previously at Fraunhofer IESE, TU Kaiserslautern and University of Houston



→ Researchers



Oliver Erenkämper



Ralph Gerbig



Marcus Kessel



Thomas Schulze



Christian Tunjic



PD Dr.-Ing. Achim Wagner

Privatdozent

→ 3 Robots



Some Research Foci



1. Model Driven Development

- Multi-Level-Modeling
- MELANEE Modeling Tool



2. “Green IT“

- Green SLAs
- Federated Data Centers

3. Software Reuse

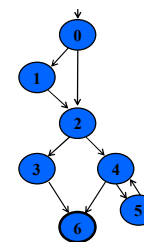
- Test driven reuse with Merobase and Code Conjurer



CS 500 - Advanced Software Engineering



- Foundation course
- Fall semester
- English
- ECTS: 6
- Main topics
 - Model-based, multi-view system specification
 - Test design and description
 - Black-box testing approaches
- No pre-requisites
- Evaluated by a single written exam

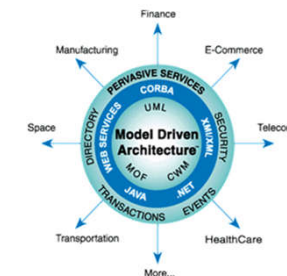
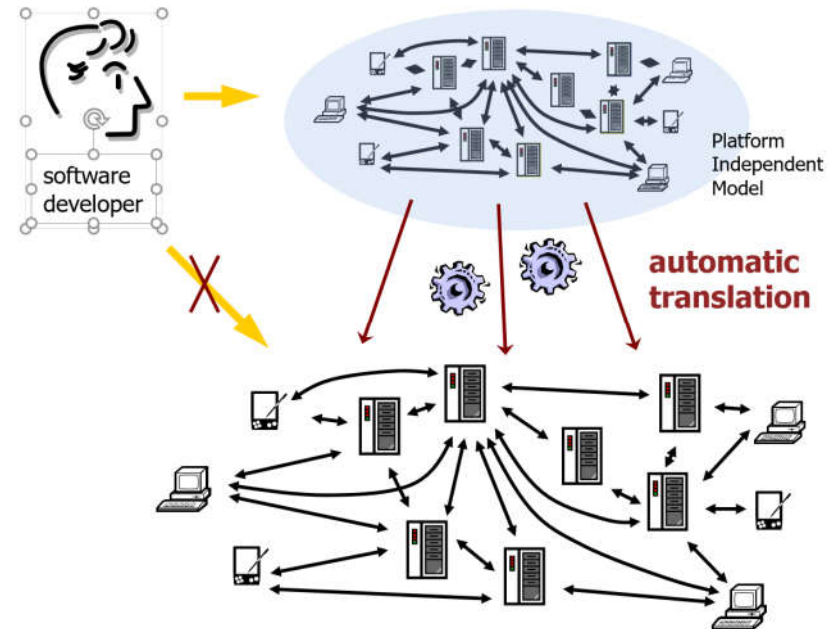


	A	B	C	D
1	'Stack	create		
2	D1	push	23	
3	D1	push	42	
4	D1	pop		42 23
5	D1	pop		C2

CS 600 - Model-Driven Development



- Specialization course
- Fall semester
- English
- ECTS: 6
- Main topics
 - Metamodeling
 - Object Constraint Language (OCL)
 - Model transformation
 - Multi-level modelling
 - ...
- Prerequisites: Advanced Software Engineering
- Evaluated by a single written exam



IE 682 – Enterprise Architecture Modeling



- Specialization course
- Spring semester
- English
- ECTS: 6
- Main topics
 - Enterprise Architectures
 - Multi-View Specification
 - EAM Standards
 - Archimate
 - ...
- Prerequisites: Model-Driven Development
- Evaluated by a single written exam

	What?	How?	Where?	Who?	When?	Why?	
Planner							Scope (contextual)
Owner							Enterprise model (conceptual)
Designer							System model (logical)
Builder							Technology model (physical)
Sub-contractor							Detailed representations (out of context)
	Data	Function	Network	People	Time	Motivation	

