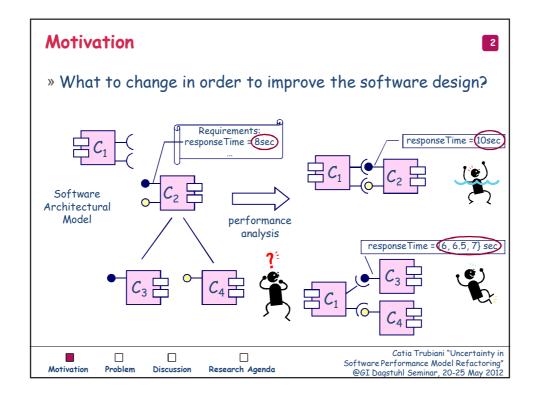


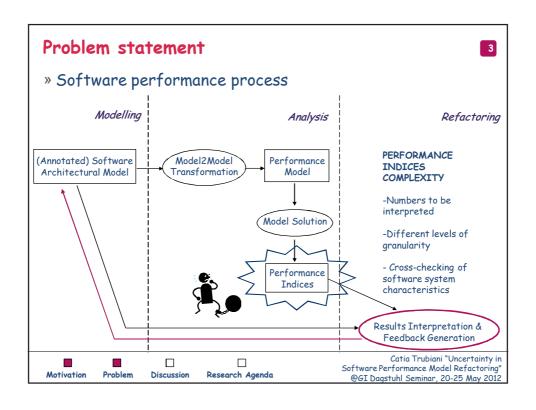
GI Dagstuhl Seminar "Quality-of-Service Attributes in Service- and Cloud-based Systems: Specification, Modelling, Monitoring, Prediction, and Optimisation"

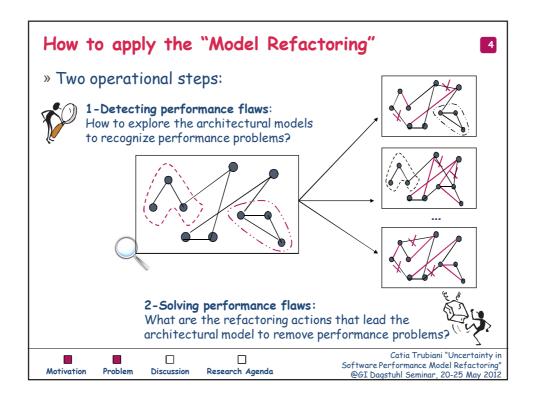
Uncertainty in Software Performance Model Refactoring

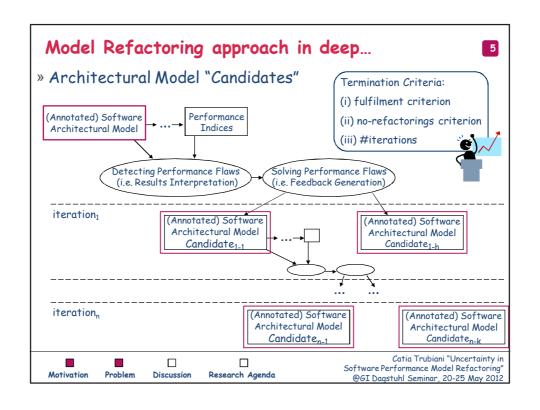
Catia Trubiani
Department of Computer Science
University of L'Aquila, L'Aquila (AQ), Italy

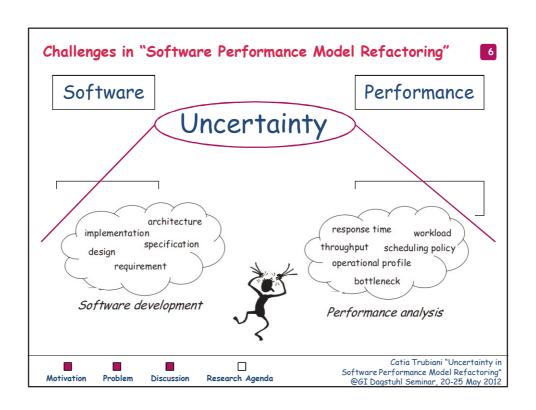












Software Models Refactoring Uncertainty

- 7
- » What are the refactoring actions that lead uncertainty in the software models?
 - Add/Change/Delete software model elements;
 - Add/Change/Delete connections between software model elements, i.e. modifying the topology;
 - Add/Change/Delete interactions between software model elements, i.e. modifying the <u>behavior</u>;
 - <u>Further issues</u>: lack of information
 (e.g. workload, operational profile, ...).



Motivation

Problem

Discussion

Research Agenda

Catia Trubiani "Uncertainty in Software Performance Model Refactoring" @GI Dagstuhl Seminar, 20-25 May 2012

Performance Models Refactoring Uncertainty

- 8
- » What are the refactoring actions that lead uncertainty in the performance models?
 - Add/Change/Delete performance model elements;
 - Add/Change/Delete connections between performance model elements, i.e. modifying the topology;
 - Add/Change/Delete interactions between performance model elements, i.e. modifying the <u>behavior</u>;
 - Further issues: lack of information (e.g. service time distribution, waiting policy, routing strategy, ...).

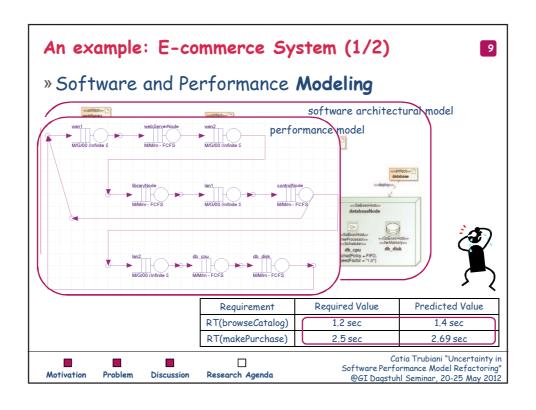


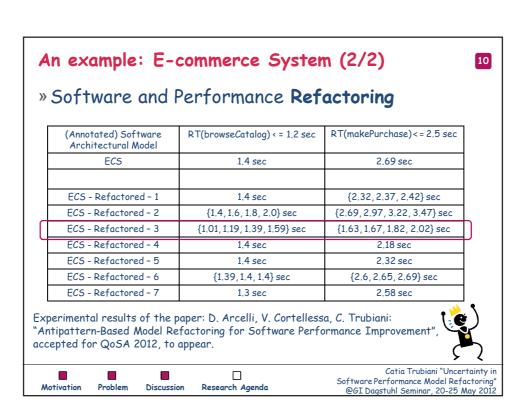
Motivation

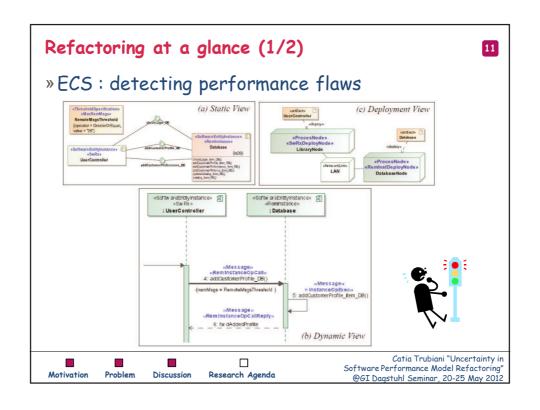
Problem

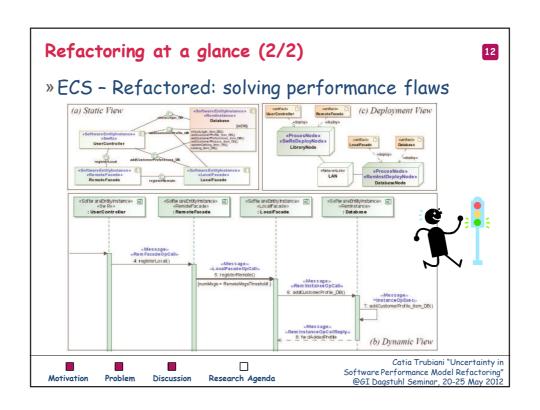
Discussion

□ Research Agenda Catia Trubiani "Uncertainty in Software Performance Model Refactoring" @GI Dagstuhl Seminar, 20-25 May 2012

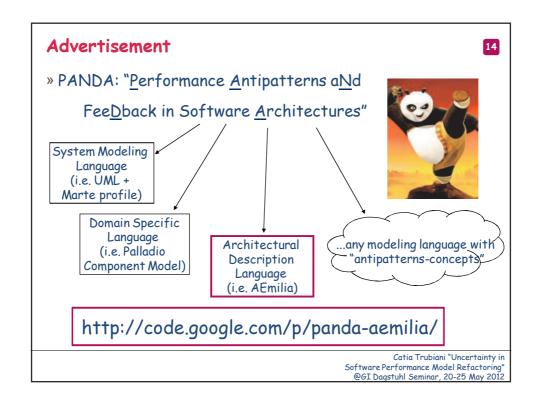














Thank you!



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