From Constraints to Application Conditions Presentation

Robin Oppermann and Patrick Robrecht

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Research Group Database and Information Systems
Department of Computer Science
University of Paderborn

Why construct application conditions from constraints?

TODO: Explain what we're goint to present

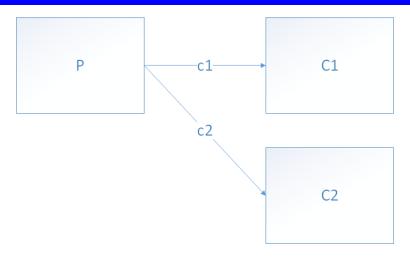
Contents

1 Introduction

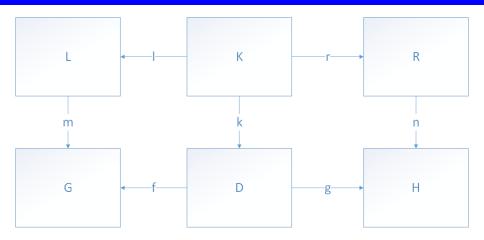
2 Construction of Application Conditions from Constraints

3 Construction of Left from Right Application Conditions

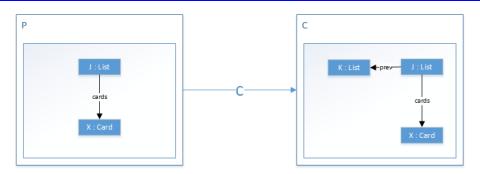
Constraint Schema



Rule Schema



Constraint Example



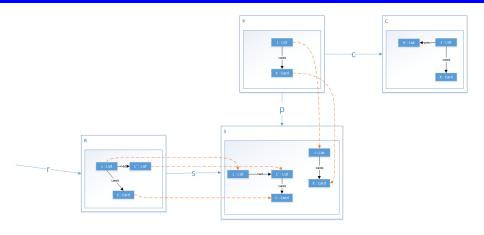
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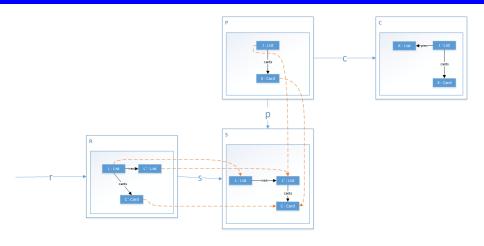
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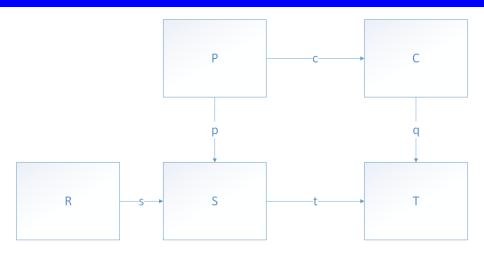
3 Construction of Left from Right Application Conditions

Construct S – Example Step 1

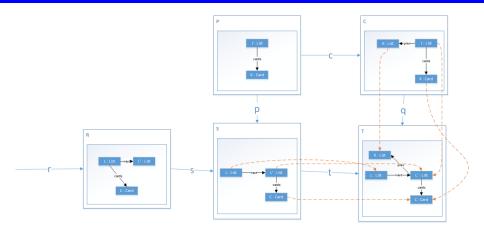


 ${\sf Construct}\ S - {\sf Example}\ {\sf Step}\ 2$

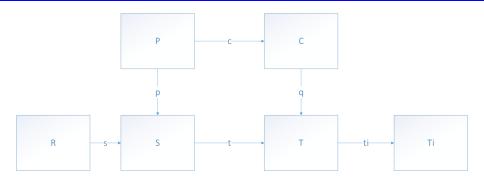




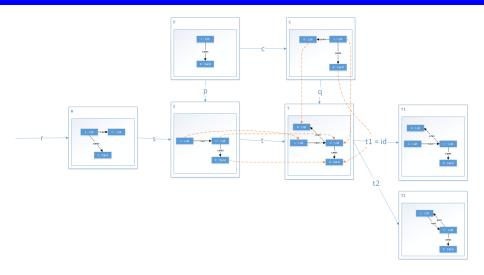
 ${\sf Construct}\ T - {\sf Example}$



Construct T_i – Schema



Construct T_i – Example



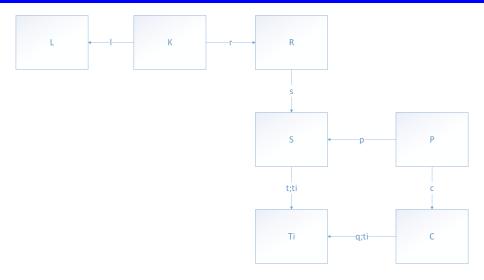
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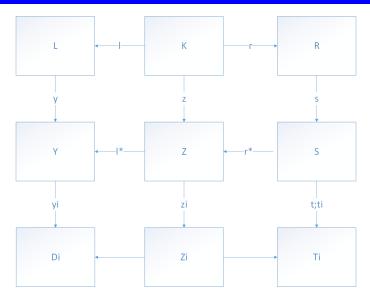
2 Construction of Application Conditions from Constraints

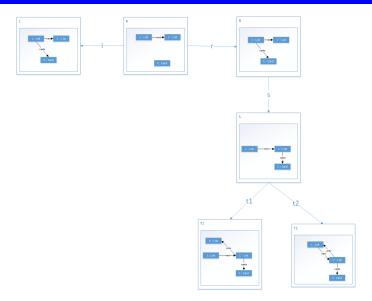
3 Construction of Left from Right Application Conditions

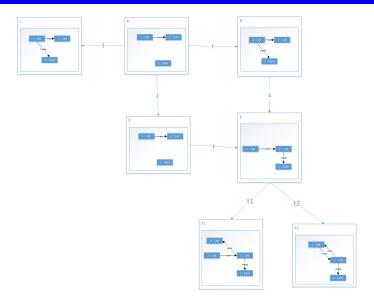
Overview

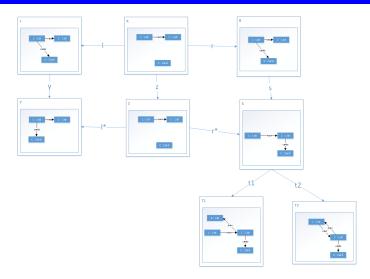


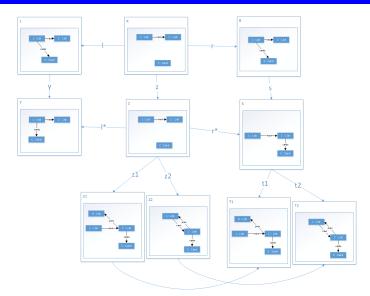
From Right to Left Application Conditions – Schema

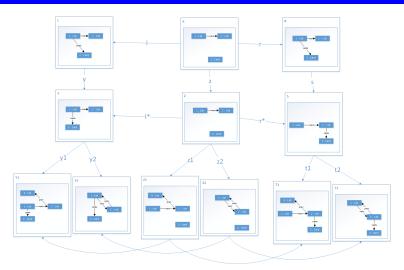




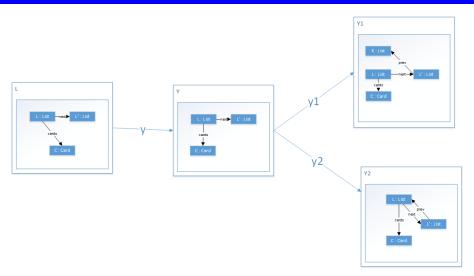








Left Application Condition – Example



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2 Construction of Application Conditions from Constraints

3 Construction of Left from Right Application Conditions

- The construction of applications conditions can be implemented with the code from the exercises
- Problems:
 - choose left or right and first or second in corners/spans?
 - difficult to output diagrams in Plantuml as labels are used to identify objects in the diagrams (but there exist multiple objects with the same label) - no help for debugging
- Code generation for category theory would be great!