

A U S H A N G

FREIE UNIVERSITÄT BERLIN
Fachbereich Mathematik und Informatik

Promotionsbüro, Arnimallee 14, 14195 Berlin

DISPUTATION

Freitag, 12. September 2014, 14.00 Uhr

Ort: SR 046, Takustr. 9, 14195 Berlin

Disputation über die Doktorarbeit von

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**Thema der Dissertation:
A Rule-Based Agent-Oriented Framework
for Weakly-Structured Scientific Workflows**

**Thema der Disputation:
Flexible Workflow Compositions**

Die Arbeit wurde unter der Betreuung von **Prof. Dr. A. Paschke** durchgeführt.

Abstract: Workflows in practice are complex and require a flexible design to represent their process logic and decision logic. Moreover, although distributed execution environments provide a huge amount of resources, their uncertainty and heterogeneity also bring difficulties to an effective workflow execution. To deal with these challenges, many efforts have been put into supporting flexible workflow compositions.

This presentation introduces the background about workflow description and existing solutions with a purpose of providing a flexible workflow composition and supporting an adaptive workflow execution, including: classical workflow languages, agent-oriented workflow compositions, rule-based languages, existing scientific workflow languages and semantic-based workflow compositions.

Die Disputation besteht aus dem o. g. Vortrag, danach der Vorstellung der Dissertation einschließlich jeweils anschließenden Aussprachen.

Interessierte werden hiermit herzlich eingeladen

Der Vorsitzende der Promotionskommission
Prof. Dr. A. Paschke