

## 1. Allgemeines

### *Allgemeinverständliche Kurzbeschreibung der Arbeit*

Goal-oriented dialog systems like Amazon Alexa and Google Assistant are becoming an important part of our daily lives. Such systems mainly aim to help users to achieve a goal by guiding them through certain tasks. They do that, typically by accessing a knowledge source and a set of web services. The main challenge that comes with these systems is that whenever a new service needs to be introduced the whole pipeline of the dialog system is affected heavily, making them not flexible. We introduce the Dialogical Access to Lightweight Semantic Web Services approach to decouple the dialog systems from the web services they access by leveraging the lightweight semantic annotations based on schema.org, a de-facto industrial standard for semantic annotation of web resources.

## 2. Ergebnisse

### *Beschreibung der erreichten Ergebnisse*

- A concept and formalization for the domain specification process.
- The WASA Language and tools support for the lightweight of annotation web services (<http://wasa.cc>)
- The Unified Intent Model and its implementation Unified Intent Model Ontology (UIMO) for generic description of dialog intents across different dialog system frameworks. (<http://dialsws.xyz>)

## 3. Geplante weiterführende Aktivitäten

### *Sind eigene weiterführende Aktivitäten geplant? Kurze Angabe von noch offenen Aktivitäten (Zeitplan)*

- July-August 2020:
  - Implementation of intent generator
  - Implementation and evaluation of semantic task manager
- September 2020: Proof-reading and completion of the thesis

## 4. Anregungen für Weiterführung durch Dritte

### *Welche Weiterführungen für Dritte ergeben sich durch Ihre Arbeit?*

- Annotation of their web services with the WASA language to make them available for intelligent agents.
- Creating their own intent generation approaches and publish their dialog intents in Unified Intent Modeling Ontology, in order to enable the reuse and interoperability of goal-oriented dialog intents.