

25. March 2010

## Semantic Web Services

**Exercise sheet 3**  
**Service Science****Exercise 1 (Service vs. Web service) (6 points)**

Explain in your own words what is *service* and what is a *Web service*. Explain the difference between the two notions (min 0.5 pages, max 1 page).

**Exercise 2 (Web service properties) (6 points)**

When describing a Web service one could model the functional, behavioral and non-functional properties of the service. Let's consider an OEBB ticket booking Web service. Describe in natural language how each of the three types of properties mentioned before could be modeled for the OEBB ticket booking Web service (min 0.5 pages, max 1page).

**Exercise 3 (SOA) (8 points)**

In a Service Oriented Architecture (SOA) the actors include: service provider, service registry and service consumer (see Slide 32 of Service Science lecture). Choose a domain (e.g. transportation domain) and give concrete example of the three actors. Explain how the SOA principles (see Slide 32 of Service Science lecture) can be followed when implementing an application for the domain you chosen before. (min 0.5 pages, max 1.5 pages)