



Research School for Operations
Management and Logistics

Decision Support in Multi-Agent Systems for Industrial Symbiosis

Vahid Yazdanpanah – UT

This PhD proposal is part of a larger research taking place in the overarching European Horizon2020 project named Sharebox. This four year research project investigates the decision processes and aims to develop decision support tools for Multi-Agent Organizations (MAO). Accordingly, the three following aspects of decision-making in multi-agent settings will be studied in three research lines. The first research line is focused on investigating/developing methods to Represent and Reason (R&R) about decision processes in MAO. Secondly, we consider mechanisms to Coordinate and Control (C&C) decisions in multi-agent settings. Finally, we focus on Game theoretical approaches and Strategic aspects (G&S) of decisions in MAO. Although overlaps are inevitable, such a categorization helps to tackle all the main aspects in the three evolving research lines (in parallel). These lines will finally come together and be integrated in the final research report (PhD book).