



# T Mobile Sparq Manual

**J Rink**

## **T Mobile Sparq Manual:**

**Hierarchical Voronoi Graphs** Jan Oliver Wallgrün, 2009-11-28 What is space Is there space when there are objects to occupy it or is there space only when there are no objects to occupy it Can there be space without objects These are old philosophical questions that concern the ontology of space in the philosophical sense of ontology what is the nature of space Cognitive science in general and artificial intelligence in particular are less concerned with the nature of things than with their mental conceptualizations In spatial cognition research we address questions like What do we know about space How is space represented What are the representational entities What are the representational structures Answers to these questions are described in what is called ontologies in artificial intelligence Different tasks require different knowledge and different representations of knowledge facilitate different ways of solving problems In this book Jan Oliver Wallgrün develops and investigates representational structures to support tasks of autonomous mobile robots from the acquisition of knowledge to the use of this knowledge for navigation The research presented is concerned with the robot mapping problem the problem of building a spatial representation of an environment that is perceived by sensors that only provide incomplete and uncertain information this information usually needs to be related to other imprecise or uncertain information The routes a robot can take can be abstractly described in terms of graphs where alternative routes are represented by alternative branches in these route graphs

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