Spatial Representation And Reasoning For Robot Mapping A Shape Based Approach Springer Tracts In Advanced Robotics

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Spatial Representation And Reasoning For

Spatial–temporal reasoning is an area of artificial intelligence which draws from the fields of computer science, cognitive science, and cognitive psychology.The theoretic goal—on the cognitive side—involves representing and reasoning spatial-temporal knowledge in mind.

Spatial–temporal reasoning - Wikipedia

Ranxiao Frances Wang, in Psychology of Learning and Motivation, 2003. The nature of spatial representations is a central issue in many areas of cognitive psychology. For example, object recognition depends on how an object's geometric structure is encoded; navigation is determined by the nature of the underlying spatial representation of the environment; spatial inference and reasoning depend ...

Spatial Representation - an overview | ScienceDirect Topics

In this paper (which is an updated version of [25]) I will survey the state of the art in Qualitative Spatial Reasoning, covering representation and reasoning issues as well as pointing to some ...

Spatial Representation and Reasoning | Request PDF

Spatial Representation and Reasoning A spatial reasoning capability is essential to covert operations in urban environments and it is strongly determined by the underlying representation. A great many spatial representations have been suggested for human and artificial navigation, communication, and reasoning. These

Spatial Representation and Reasoning for Human-Robot ...

4 1. Qualitative Spatial Representation and Reasoning that scenes which are semantically close have identical or at least

very similar descriptions. Work in this area from a cognitive robotics viewpoint includes that of Santos [181, 180]. In natural language, the use and interpretation of spatial propositions tend to be am-biguous.

Qualitative Spatial Representation and Reasoning

Spatial Representation Local Space Relative Space Spatial Reasoning Axiomatic Theory These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

Spatial Representation and Reasoning in Artificial ...

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(PDF) Visual and Spatial Representation and Reasoning in

...

Abstract: The interpretation of spatial references is highly contextual, requiring joint inference over both language and the environment. We consider the task of spatial reasoning in a simulated environment, where an agent can act and receive rewards. The proposed model learns a representation of the world steered by instruction text.

Representation Learning for Grounded Spatial Reasoning

Spatial representations are powerful cognitive tools that can enhance learning and thinking. This position is based on three claims, each of which has significant implications for teaching and learning about spatial thinking. First, creating spatial representations is a powerful way to encode new ...

The Role of Spatial Representations in Learning, Problem ...

The paper is a overview of the major qualitative spatial representation and reasoning techniques. We survey the main aspects of the representation of qualitative knowledge including ontological ...

(PDF) Qualitative Spatial Representation and Reasoning: An ...

module to support the robot's spatial reasoning. The robot interacted with a team member through voice, gestures, and movement during the team's covert approach of a moving target. This paper describes the new robotic system and its integration of metric, symbolic, and cognitive layers of spatial representation and reasoning for its ...

Spatial Representation and Reasoning for Human-Robot ...

Abstract. The field of Qualitative Spatial Reasoning is now an

active research area in its own right within AI (and also in Geographical Information Systems) having grown out of earlier work in philosophical logic and more general Qualitative Reasoning in AI.

Qualitative spatial representation and reasoning ...

Qualitative spatial representation and reasoning: A hierarchical approach Sanjiang Li1;2 and Bernhard Nebel2 1 Department of Computer Science and Technology Tsinghua University, Beijing 100084, China 2 Institut fur˜ Informatik, Albert-Ludwigs-Universit˜at Freiburg D-79110 Freiburg, Germany

Qualitative spatial representation and reasoning: A ...

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Making Space: The Development of Spatial Representation ...

Summary: “This book is a contribution to the emerging discipline of qualitative spatial information theory within artificial intelligence, covering both theory and application-centric research and providing a comprehensive perspective on the emerging area of qualitative spatio-temporal representation and reasoning”-- Provided by publisher.

Qualitative Spatio- Temporal Representation and Reasoning

Early attempts at qualitative spatial reasoning within the qualitative reasoning (QR) community led to the poverty conjecture. The need for spatial representations and spatial reasoning is ubiquitous in artificial intelligence (AI) from robot planning and navigation to interpreting visual inputs to understanding natural language.

Chapter 13 Qualitative Spatial Representation and Reasoning

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): How should a robot represent and reason about spatial information when it needs to collaborate effectively with a human? The form of spatial representation that is useful for robot navigation may not be useful in higher-level reasoning or working with humans as a team member.

CiteSeerX — Spatial Representation and Reasoning for Human ...

reasoning about space as efficient representation and reasoning mechanisms that are still expressive enough to solve a given task. Following the approach taken in Allen's seminal paper on qualitative tempo-ral reasoning [2], QSR is typically realized in form of calculi over sets of spatial relations (like 'left-of' or 'north-

of').

SparQ: A Toolbox for Qualitative Spatial Representation ...

The region connection calculus (RCC) is intended to serve for qualitative spatial representation and reasoning.RCC abstractly describes regions (in Euclidean space, or in a topological space) by their possible relations to each other.RCC8 consists of 8 basic relations that are possible between two regions: disconnected (DC) externally connected (EC)

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