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Robotic Mapping

By Frederic P. Miller

Alphascript Publishing Feb 2010, 2010. Taschenbuch. Condition: Neu. Neuware - The problem of Robotic mapping is related to cartography. The goal is for an autonomous robot to be able to construct a map or floor plan and to localize itself in it. Robotic mapping is that branch of one, which deals with the study and application of ability to construct map or floor plan by the autonomous robot and to localise itself in it. Todd et al. have shown that evolutionarily shaped blind action may suffice to keep some animals alive. For some insects for example, the environment is not interpreted as a map, and they survive only with a triggered response. But a slightly more elaborated navigation strategy dramatically enhances the capabilities of the robot. Cognitive maps enable planning capacities, and use of current perceptions, memorized events, and expected consequences. A good algorithm in robotic mapping may combine the information from the past, the present and the future. The problem can be decomposed in three processes: map learning, localisation, path-planning. 128 pp. Englisch.

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