



## Manipulator Primitive Level World Modeling (Classic Reprint) (Hardback)

By Laura Kelmar

Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Manipulator Primitive Level World Modeling The modules can be logically recombined according to their function in the system, as shown in figure 3. The system pictured consists of two main branches; the left branch contains the perception processes and the right branch contains the manipulation processes. The perception processes provide sensory feedback from devices such as cameras, range sensors and tactile array sensors. The manipulator processes plan and execute manipulator trajectories. Note that while the two branches decompose tasks independently within each branch, communication between processes, both within a branch and across branches, occurs via the global data system. The second level of the Task Decomposition hierarchy is called the Primitive Level (prim). It generates dynamic motion and force commands from a static description of the desired behavior of a device. Prim creates the time sequence of attractor sets needed to produce a dynamic trajectory and sends these as commands to the Servo level of the Task Decomposition hierarchy [wav8s]. The Prim World Modeling support module uses sensory input to provide Prim Task Decomposition with the most current models of the manipulator...



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