



On the Piano Movers Problem: Various Decomposable Two-Dimensional Motion Planning Problems (Classic Reprint)

By Micha Sharir

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On the Piano Movers Problem: Various Decomposable Two-Dimensional Motion Planning Problems Abstract: Various special motion planning problems involving arbitrarily many degrees of freedom are shown to admit relatively simple solutions by techniques based on the connectivity graph approach described by Schwartz and Sharir. The solutions exploit the particularly simple configuration space structure of the robot systems considered. A typical problem is that of planning motions for a 2-D robot system consisting of several arms all jointed at one common endpoint and free to rotate past each other. The algorithm given for solving this problem runs in time $O(nk+4)$ where k is the number of arms. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do,...



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