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(57) Abstract :
TERRAIN-TRAVERSING PICK AND PLACE ROBOT: A VERSATILE SOLUTION FOR ROUGH TERRAIN OPERATIONS ABSTRACT The Scrambler is a novel pick and place robot designed to operate effectively on rough terrain, addressing the limitations of traditional robots confined to controlled surfaces. Its advanced mobility system allows it to traverse uneven landscapes with ease, including gravel, sand, rocks, and slopes, while maintaining stability and precision. Equipped with a versatile manipulator arm, it can grasp and manipulate objects of various shapes and sizes. Emphasizing reliability, efficiency, and adaptability, the Scrambler is suitable for diverse applications such as search and rescue, agriculture, infrastructure maintenance, and industrial automation in harsh environments. Its modular architecture facilitates easy customization and integration of additional sensors or tools. In the context of robotics advancements, the Scrambler stands out for its ability to navigate obstacles and deliver items accurately, offering promising solutions for emergency response and remote aid delivery scenarios.

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