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## I. Introduction

In recent times, robotics have played a vital role for automation of modern industry. Based on the application of robotics in several domains, it can be classified into three major categories i.e., (a) land-based, (b) water-based and, (c) air-based [1]. In real world, the robotics mostly encounter the complex uneven terrain such as multiple slopes, mountains, grass surface, industry, stairs etc [2]. Therefore, the most promising robot in these environment is legged robot. Thus, this work mainly focused on the land-based robotics specifically from the legged family i.e., biped robot. Important advantage of the biped robot over other legged/wheeled robot is that its ability in working in uneven terrain [3].

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