

Tree climbing robot: design, kinematics and motion planning

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Abstrak

In this book, you can find a collection of the cutting edge technologies in the field of tree-climbing robot and the ways that animals climb. It provides a valuable reference for robot designers to select appropriate climbing methods in designing tree-climbing robots for specific purposes. Based on the study, a novel bio-inspired tree-climbing robot with several breakthrough performances has been developed and presents in this book. It is capable of performing various actions that is impossible in the state-of-the-art tree-climbing robots, such as moving between trunk and branches. This book also proposes several approaches in autonomous tree-climbing, including the sensing methodology, cognition of the environment, path planning and motion planning on both known and unknown environment.