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**Abstract:** The proceedings contain 22 papers. The topics discussed include: dynamic power management on a mobile robot; robot-guided lightweight engineering fixtures: process lightweight engineering for more flexible, resource-saving and energy-efficient production; a position-control-based framework for dynamic and robust quadrupedal trotting; graph-based motion planning with primitives in a continuous state space search; particle filter as the localization of the robot on the football pitch; assessment of a test rig for the measurement of contact properties of bolted joints; and experimental investigation of the effect of prismatic roughness on the performance of belt skimmers in oil spill recovery applications.

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