

Design of a smart retractable canopy system

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Abstract: In the context of increasing building density and the demand for outdoor space usage, this topic focuses on designing an intelligent retractable canopy system. The objective of the research is to develop a technical solution capable of optimizing space and enhancing user experience in open areas. By combining theoretical research methods with experimentation, this topic will present an automatic canopy management system based on environmental sensors and artificial intelligence. The results of the study not only provide an innovative technical solution but also have significance in improving space utilization efficiency and energy savings.

Keywords: Smart shading system, environmental sensors, artificial intelligence, space management