

# **Building a Smart Tree for intelligent dust filtration**

**Tran Van Hung**

**Abstract:** In the context of increasing environmental pollution, building a smart dust filtration system has become extremely necessary. This project aims to develop an advanced technological solution to reduce airborne dust levels in urban areas. Through theoretical and experimental research, Smart Tree will be designed to automatically adjust its operation based on the current pollution level. The ultimate goal is to create an efficient, convenient, and energy-saving dust filtration system, contributing to the improvement of urban air quality.

**Keywords:** Smart Tree, intelligent dust filtration, environmental technology, smart city, air quality management