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Automatic Controlled Unmanned Floating River Cleaning Boat (ACURCB)

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Abstract: *This research introduces an Automatic Controlled Unmanned River Cleaning Boat (ACURCB) designed to tackle reverie debris efficiently. The ACURCB employs autonomous navigation, real-time debris detection, and an integrated collection system to clean rivers with minimal human intervention. Equipped with advanced sensors for debris classification and GPS for route optimization, it features a solar-powered propulsion system for extended operation. Field tests demonstrate its effectiveness in reducing floating waste and improving water quality, offering a scalable, sustainable solution for river pollution management. The system's capability to operate in various water bodies makes it a versatile tool for addressing aquatic pollution challenges.*

Keywords: Automatic Controlled Unmanned River Cleaning Boat.