

Master Project

Sensitivity Analysis and Experimental Data Evaluation of Human Stability in Floodwaters

Motivation : Floodwaters especially in steep-sloped areas pose significant risks to human safety due to high flow velocities and abrupt depth changes. While stability thresholds are almost known, integrating subjective (e.g., questionnaires) and objective (e.g., heart rate) data remains limited. This project will analyze experimental data and perform sensitivity analyses to understand how hydrodynamic forces, individual physical characteristics, and environmental conditions affect human stability.

Expected Deliverable: Deliverables include a thorough analysis of experimental data, sensitivity analysis results, and a comprehensive report summarizing key findings.

Start Date: Immediate

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