

Sensory Quality Engineering: Working Summary

THE HOUSE OF LITTLE THOUGHTS / CALMING INDEX

Research question

Can explainable engineering measurements help creators reason about the sensory structure of children's media before publication?

Approach

The open Calming Index implementation extracts feature vectors, calculates a stress-regulation score, provides a transparent report, and runs sensitivity checks including ablation and feature-space visualization.

Evidence and next steps

The current repository includes synthetic benchmark data and an ablation-study workflow. Future work includes richer naturalistic media, semantic multimodal parsing, and calibration against independently collected human-response data.

Production application

The House of Little Thoughts applies these principles as a creative production direction: gentler transitions, steadier sound, readable visual pacing, and space for reflection. Episode learning goals are pedagogical descriptions, not clinical claims.

Status

Working summary for discussion. This document is not a peer-reviewed publication.

Scope

The framework is a computational data engineering and media architecture methodology. It does not make medical, diagnostic, psychiatric, or clinical claims regarding pediatric healthcare.

Source and further detail

Open implementation and technical documentation: <https://github.com/pallavikaran/CalmingIndex>