SSE-Lang v0.2
A Structured Rule Language for Feasibility Judgement

Author: Evan Bei
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Abstract
SSE-Lang (Structured Safety & Evaluation Language) is a lightweight rule-based language designed to formalize feasibility judgement in scientific and engineering contexts where fully quantitative modeling is unavailable or inappropriate. Rather than predicting outcomes, SSE-Lang encodes expert-style reasoning through explicit conditional rules, exclusions, and advisory constraints. The language distinguishes between hard rules, which define strict infeasibility, and soft (advisory) rules, which signal caution without vetoing feasibility. In version v0.2, SSE-Lang introduces derived semantics, allowing higher-level indicators to be inferred from multiple qualitative inputs instead of being manually specified. Each evaluation produces a transparent judgement trace, including triggered rules, derived indicators, and a stable trace identifier. SSE-Lang is deterministic, interpretable, and auditable, and is intended as a methodological framework for discussion and demonstration rather than a predictive model.

Keywords: feasibility judgement; rule-based reasoning; interpretability; expert systems; scientific methodology

Availability: https://goldisle.org/sse-lang/

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