4. Verifying Our Encoding

Trace Equivalence Theorem

To verify our denotation, we prove an equivalence between the trace of the operational semantics of CCS (the Labelled Transition System[5]) and the trace semantics of ITrees. Showing trace equivalence is convenient, especially due to the presence of nondeterminism in our concurrency model.

Future Work

- Extension of weak and strong bisimulation in ITrees.
- Modeling π-calculus (message passing) calculus