

T-79.4301

Autumn 2008

Parallel and Distributed Systems

Tutorial 8 - Thu Nov 20, 14:15

1. Find two LTSs L and L' such that $L \leq_{sim} L'$ and $L' \leq_{sim} L$ hold, but $L \not\sim L'$ does not hold (L and L' are not bisimilar).
2. Give two LTSs L and L' such that $L \leq_{tr} L'$ holds but $L' \leq_{tr} L$ does not hold.
3. Find two LTSs L and L' such that $L \leq_{tr} L'$ holds, but it is not the case that $L \leq_{sim} L'$ holds.
4. Is the following claim true: If L and L' are bisimilar, then both $L \leq_{sim} L'$ and $L' \leq_{sim} L$ hold. Please explain your answer in a sentence or two.
5. Prove the following: If $L \sim L'$ then $traces(L) = traces(L')$.