

Elective in Software and Services

(Complementi di software e servizi per la società dell'informazione)

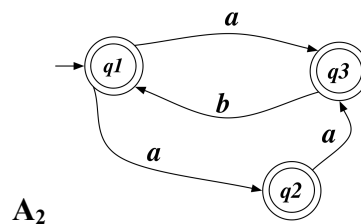
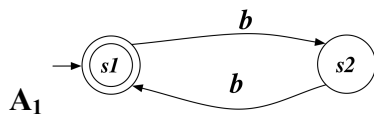
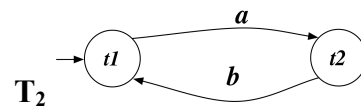
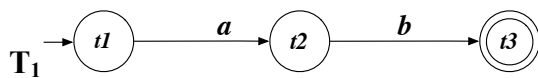
2009/10

24/06/2010

Time to complete the assignment: 2 hours

Part 1 (Composition Synthesis)

Given the following the available services A_1 and A_2 and the targets services T_1 and T_2 , check whether a composition realizing each of them exists, and if it does, produce the output relation of orchestrator generator.



Part 2 (Theoretical Question)

Prove that the following well-known theorem holds.

Theorem: If two states s, t of two finite transition systems satisfy (make true) the same formulas of HennessyMilner Logic, then there exists a bisimulation between s and t .