Protocol Modeling in Spiking Neural P systems and Petri Nets

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ABSTRACT

In this paper we present the relation between Spiking Neural P (SN P) systems and Petri nets by focusing on modeling simplex stop-and-wait protocol. The SN P system for the protocol is constructed and also translated it into equivalent Petri net with a corresponding semantics. It is then observed a direct correspondence between the Petri net representation of the proposed model and standard solution based on Petri nets already present in the literature.