Protocol Modeling in Spiking Neural P systems and Petri nets

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.

Reference


Index Terms

Computer Science

Parallel Computing

Key words

Petri net

Spiking neural P system

simplex stop-and-wait protocol

modeling