Abstract

The concept of a Petri net, a tool for the study of certain discrete dynamical systems, was invented in 1939 by Carl Adam Petri. In the attempt to characterize Boolean Petri nets, we discovered a subclass of Boolean Petri net called the crisp Boolean Petri net, viz., the one that generates every binary vector as its marking vectors exactly once. In this paper, the construction of a crisp Boolean Petri net from a 1-safe Petri net has been shown.

References

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- Harary, F., Graph theory, Addison-Wesley, Massachusetts, Reading, 1969.

Index Terms

Computer Science

Applied Sciences

Keywords

1-safe Petri nets  graph theory  reachability tree  binary n-vector  hypercube.