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## Abstract

In this paper a novel theoretical model is presented in which the dynamics in a knowledge-based value chain is modeled using Petri nets. The key processes in the knowledge-based value chain are represented by specific classes of PT nets. The theory of Petri nets aptly captures the evolution of knowledge in a system and the process is usually highly interactive in nature. The properties and analysis methods of various classes of Petri nets

can be conveniently used to check various constraints while designing the system. Synchronization can be conveniently enforced.

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## Index Terms

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## Key words

Knowledge-Based System Value Chain

Petri Nets