

عنوان مقاله:

Cyclic Probabilistic Data Processing in Autonomous Wireless Sensor Networks Using Fuzzy Petri Nets

محل انتشار:

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خلاصه مقاله:

In this paper, we propose a high level fuzzy Petri net model for autonomous response to sensor motivated active queries in autonomous wireless sensor networks (AWSN). We also discuss centralized and decentralized data handling, providing a rational base for a cyclic-leveled data handling mechanism. Different autonomous levels in goal or decision making and action performing processes will be discussed. Furthermore, we suggest an integrated, optimizing error-correcting mechanism based on probabilistic solutions. It is joined with probability issues and also, declaration of classic databases' features like data functional dependencies among sensed data. Different components will be combined using an overall block diagram and eventually, a high level fuzzy Petri net model has been proposed.

کلمات کلیدی:

Fuzzy Petri Nets, Sensor Wireless Network, Goal Autonomous Agents, Query Processing, Active Databases

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