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PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI

Detecting Node Failures in Mobile Wireless Networks: A Probabilistic Approach

ABSTRACT

Detecting node failures in mobile wireless networks is very challenging because the network topology can be highly dynamic, the network may not be always connected, and the resources are limited. In this paper, we take a probabilistic approach and propose two node failure detection schemes that systematically combine localized monitoring, location estimation and node collaboration. Extensive simulation results in both connected and disconnected networks demonstrate that our schemes achieve high failure detection rates (close to an upper bound) and low false positive rates, and incur low communication overhead. Compared to approaches that use centralized monitoring, our approach has up to 80% lower communication overhead, and only slightly lower detection rates and slightly higher false positive rates. In addition, our approach has the advantage that it is applicable to both connected and disconnected networks while centralized monitoring is only applicable to connected networks.

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EXISTING SYSTEM:

This approach assumes that there always exists a path from a node to the central monitor, and hence is only applicable to networks with persistent connectivity. In addition, since a node can be multiple hops away from the central monitor, this approach can lead to a large amount of network-wide traffic, in conflict with the constrained resources in mobile wireless networks. Another approach is based on localized monitoring, where nodes broadcast heartbeat messages to their one-hop neighbors and nodes in a neighborhood monitor each other through heartbeat messages. Localized monitoring only generates localized traffic and has been used successfully for node failure detection in static networks.

DISADVANTAGES:

- Therefore, techniques that are designed for static networks are not applicable. Secondly, the network may not always be connected.
- Therefore, approaches that rely on network connectivity have limited applicability.
- In contrast, we combine the numeric pruning and the structural pruning based on the data space partitioning.

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PROPOSED SYSTEM:

We propose optimizations on how to find a good partitioning. Furthermore, we maintain the grid cells using an efficient index to facilitate the dynamic computation of skyline entities. More importantly, we prune the unpromising cells that cannot generate true S2A answers by exploiting the encoding and partitioning strategies. In order to deal with the curse of dimensionality, we propose to cluster numeric attributes, and provide an efficient algorithm to compute skylines over clusters of attributes. In this paper, we propose a novel probabilistic approach that judiciously combines localized monitoring, location estimation and node collaboration to detect node failures in mobile wire-less networks. Specifically, we propose two schemes. In the first scheme, when a node A cannot hear from a neighboring node B, it uses its own information about B and binary feedback from its neighbors to decide whether B has failed or not.

ADVANTAGE OF PROPOSED SYSTEM:

- In addition, since a node can be multiple hops away from the central monitor, this approach can lead to a large amount of network-wide traffic, in conflict with the constrained resources in mobile wireless networks.
- Another approach is based on localized monitoring, where nodes broadcast heartbeat messages to their one-hop neighbors and nodes in a neighborhood monitor each other through heartbeat messages.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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