Hands-on Internet of Things Specialization

IoT Communications

Week 4

Question 1:

You are using hierarchical addressing and tree routing. What happens if a node needs to forward a packet to a destination that is not within the ranges of its children?

Sends packet to its parent

Question 2:

In naive geographic routing, how does each node determine which node to forward a packet to?

Choose the one-hop neighbor with the smallest remaining distance to the destination.

Question 3:

In IoT networks, we can assume that the network consists of one connected component.

False

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Question 4:

Which type of routing is characterized by randomly forwarding messages to neighbors and has a high fault-tolerance?

Gossip

Question 5:

What are some advantages of topology-dependent addressing?

Routing gets easier, as you can tell where destinations are based on their addresses.

Question 6:

What effect does "rumor mongering" have on information propagation?

Speeds up propagation, by making new information each more nodes.