Architecture-Independent Programming for Wireless Sensor Networks (Wiley Series on Parallel and Distributed Computing)

Wiley-Interscience - Architecture

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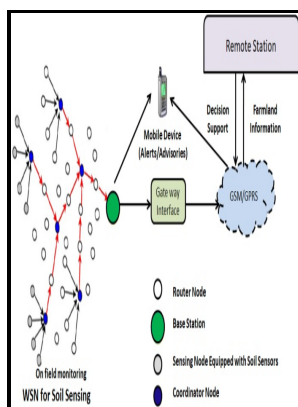Science/Mathematics
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Architecture–Independent Programming for Wireless Sensor Networks : Bakshi, Amol B., Prasanna, Viktor K.: play.fridaynightfunk.rf.gd.au: Books

This function can be specified as a sequential, imperative program for a von Neumann architecture, and the purpose of parallelizing and distributing the execution over multiple nodes is mainly to reduce the total latency.

Architecture

For instance, the current set of task annotations allows placement based on node IDs or locations.

Architecture–Independent Programming for Wireless Sensor Networks : Bakshi, Amol B., Prasanna, Viktor K.:

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Rudimentary compilationmeans that the compiler only ensuresfunctionally correct translation of task and channel annotations in the ATaG program. All activity-sampling of the sensor, comparison with previous state, and production of output data item-occurs on the same node.

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The exact placement of sensor nodes might not be of interest to the application developers as long as the set of sensing tasks mapped onto a subset of those nodes at any given time collaboratively ensures the desired coverage. The code listing for this function in the current implementation of DART is shown in Figure 3. The ATaG programmer will write a similar piece of code for each abstract task.

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