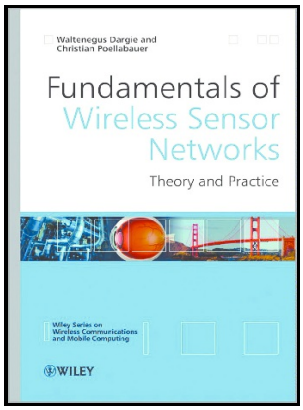
Architecture-Independent Programming for Wireless Sensor Networks (Wiley Series on Parallel and Distributed Computing)

Wiley-Interscience - Architecture



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Programming Paradigms for Networked Sensing: A Distributed Systems' Perspective

Tasks have to make the suitable calls to the sensing interface e.

Architecture

Alternately, initialization may be performed in the constructor of that class in an objectoriented implementation. The basic idea is to abstract the collaborative computing applications in the network as a set of services and provide a query interpretation, planning, and resource management engine to translate the service requirements specified by the end 8 INTRODUCTION Figure 1. This code can be easily modified to add more behaviors, in concert with extensions to the GUIMessage class.

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Architectureâ€“Independent Programming for Wireless Sensor Networks : Bakshi, Amol B., Prasanna, Viktor K.: satis.farmjournal.com.au: Books

Next, the authors set forth everything you need for designing and deploying sensor networks using ATaG, including: Detailed description of the ATaG models features System-level support for architecture-independent programming Examination of the graphical programming and software synthesis environment for ATaG Case study illustrating the process of end-to-end application development and software synthesis using ATaG Throughout the book, the authors provide code excerpts and figures to help clarify key concepts and explain each step. The algorithm used to select this set of nodes will reflect the quality of the compilation by affecting the communication and computation cost that is engendered in the deployment. The second module of this package that is useful to the application-level task is the NetworkArchitecture.

Architecture

If some sensor nodes in the target system have a wired network connection while others communicate through a variety of wireless network interfaces, the suitable Networkstack will have to be selected for each node, based on the information provided in the network model. All behaviors to be syn- Meta-modeling for the ATaG domain 109 thesized onto the target network are required to be part of this top-level model. The setNeighborReading accepts an integer reading and node ID, and it sets the reading corresponding to that node ID to the integer value passed to the method.

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