



# Information Processing and Routing in Wireless Sensor Networks

*Yang Yu, Viktor K. Prasanna, Bhaskar Krishnamachari*

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This book presents state-of-the-art cross-layer optimization techniques for energy-efficient information processing and routing in wireless sensor networks. Besides providing a survey on this important research area, three specific topics are discussed in detail - information processing in a collocated cluster, information transport over a tree substrate, and information routing for computationally intensive applications. The book covers several important system knobs for cross-layer optimization, including voltage scaling, rate adaptation, and tunable compression. By exploring trade-offs of energy versus latency and computation versus communication using these knobs, significant energy conservation is achieved.

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