

1. Record Nr.	UNINA9910810689903321
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Titolo	Information processing and routing in wireless sensor networks // Yang Yu, Viktor K. Prasanna, Bhaskar Krishnamachari
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2006
ISBN	1-281-37315-X 9786611373153 981-277-258-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (202 p.)
Altri autori (Persone)	KrishnamachariBhaskar Prasanna KumarV. K
Disciplina	681.2
Soggetti	Sensor networks Wireless LANs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. 161-174) and index.
Nota di contenuto	ch. 1. Introduction to wireless sensor networks -- ch. 2. Background -- ch. 3. Energy models -- ch. 4. Information processing within a collocated cluster -- ch. 5. Information transportation over a tree substrate -- ch. 6. Information routing with tunable compression -- ch. 7. Conclusions.
Sommario/riassunto	"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 tradeoffs of energy versus latency and computation versus communication using these knobs, significant energy conservation is achieved."