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| 1. | Record Nr. | UNINA9910784742703321 |
| | Autore | Yu Yang, Dr. |
| | Titolo | Information processing and routing in wireless sensor networks [[electronic resource] /] / Yang Yu, Viktor K. Prasanna, Bhaskar Krishnamachari |
| | Pubbl/distr/stampa | Singapore ; ; Hackensack, N.J., : World Scientific, c2006 |
| | ISBN | 1-281-37315-X<br>9786611373153<br>981-277-258-8 |
| | Descrizione fisica | 1 online resource (202 p.) |
| | Altri autori (Persone) | KrishnamachariBhaskar<br>Prasanna KumarV. K |
| | Disciplina | 681.2 |
| | Soggetti | Sensor networks<br>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." |