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| 1. Record Nr. | UNINA9910963474603321 |
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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 | 9786611373153 9781281373151 128137315X 9789812772589 9812772588 |
| 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." |

