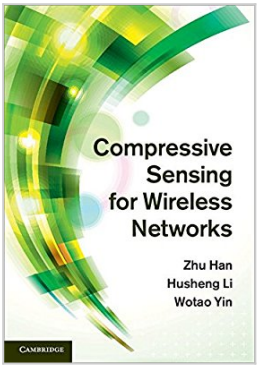

Compressive Sensing for Wireless Networks

By Professor Zhu Han, Professor Husheng Li, Professor Wotao Yin

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Compressive sensing is a new signal processing paradigm that aims to encode sparse signals by using far lower sampling rates than those in the traditional Nyquist approach. It helps acquire, store, fuse and process large data sets efficiently and accurately. This method, which links data acquisition, compression, dimensionality reduction and optimization, has attracted significant attention from researchers and engineers in various areas. This comprehensive reference develops a unified view on how to incorporate efficiently the idea of compressive sensing over assorted wireless network scenarios, interweaving concepts from signal processing, optimization, information theory, communications and networking to address the issues in question from an engineering perspective. It enables students, researchers and communications engineers to develop a working knowledge of compressive sensing, including background on the basics of compressive sensing theory, an understanding of its benefits and limitations, and the skills needed to take advantage of compressive sensing in wireless networks.

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Compressive Sensing for Wireless Networks By Professor Zhu Han, Professor Husheng Li, Professor Wotao Yin Bibliography

- Sales Rank: #3373230 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2013-07-15
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x .79" w x 6.85" l, 1.70 pounds
- Binding: Hardcover
- 304 pages

Editorial Review

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