

Springer

1st
edition

2013, XIV, 271 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-4419-6165-5

£ 119,99 | CHF 165,50 | 139,99 € |
153,99 € (A) | 149,79 € (D)

Available

Discount group

Science (SC)

Product category

Monograph

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Engineering : Communications Engineering, Networks

Smith, Joshua R. (Ed.)

Wirelessly Powered Sensor Networks and Computational RFID

- A comprehensive tour of the latest research in wirelessly powered sensor networks, RFID, and power harvesting
- Includes an overview, interpretation, context, and guide posts for future research directions
- A collection of several years of relevant work

The Wireless Identification and Sensing Platform (WISP) is the first of a new class of RF-powered sensing and computing systems. Rather than being powered by batteries, these sensor systems are powered by radio waves that are either deliberately broadcast or ambient. Enabled by ongoing exponential improvements in the energy efficiency of microelectronics, RF-powered sensing and computing is rapidly moving along a trajectory from impossible (in the recent past), to feasible (today), toward practical and commonplace (in the near future). This book is a collection of key papers on RF-powered sensing and computing systems including the WISP. Several of the papers grew out of the WISP Challenge, a program in which Intel Corporation donated WISPs to academic applicants who proposed compelling WISP-based projects. The book also includes papers presented at the first WISP Summit, a workshop held in Berkeley, CA in association with the ACM Sensys conference, as well as other relevant papers. The book provides a window into the fascinating new world of wirelessly powered sensing and computing.

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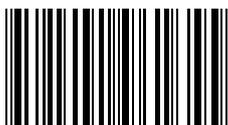
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ISBN 978-1-4419-6165-5 / BIC: TJK / SPRINGER NATURE: SCT24035

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