Wirelessly Powered Sensor Networks and Computational RFID

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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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Editorial Review

From the Back Cover

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About the Author

Joshua R. Smith is Associate Professor in the Departments of Computer Science and Engineering (CSE) and Electrical Engineering (EE) at the University of Washington in Seattle, where he leads the Sensor Systems research group. Prior to joining UW in 2011, he was Principal Engineer at Intel Labs Seattle from 2004 – 2010. At Intel he led several wireless power projects, including WISP, WARP, and WREL. While a graduate student at MIT, he co-invented an electric-field-based automotive passenger sensing system that has been incorporated in every Honda car made since 2000. He received Ph.D. and S.M. degrees from the MIT Media Lab's Physics and Media Group, and M.A. in Physics from Cambridge University, and B.A. degrees in Computer Science and Philosophy from Williams College.

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