

Forthcoming book from Lawrence Erlbaum Associates

## Ubiquitous Computing in Education

Invisible Technology, Visible Impact

Edited by

Mark van 't Hooft, Karen Swan

Kent State University

Digital technology has radically altered the way in which we live and work, but has not had a substantial impact on education. *Ubiquitous Computing in Education* explores the educational potential of ubiquitous computing initiatives that make digital tools available to students and teachers. Combining theory, research, and practice, this volume paints a broad picture of the field of ubiquitous computing in education, which focuses on the availability of digital tools for teachers and students to use anywhere and anytime to support teaching and learning. The book illustrates how to use theory and research to enhance technology integration, teaching practices, and student achievement. The significance of ubiquitous computing for teaching and learning is highlighted, as the text discusses why it is important, what it looks like, what the research tells us about it, and how ubiquitous computing can work in different types of learning environments today and in years to come.

This book is of interest to researchers and graduate students in educational technology, as well as teachers, administrators, policymakers, and industry leaders who can use the text to make essential decisions related to their respective roles in education.

**Order Today! Save 20%**

0-8058-5735-4 [Cloth] / August 2006 / 328pp. / \$99.95

0-8058-5736-2 [Paper] / August 2006 / 328pp. / \$49.95

*See Order Form on Reverse*

 Lawrence Erlbaum Associates

www.erlbaum.com

### Contents:

Preface

Foreword

#### Part I: *Introduction and Background: Why Should We Bother?*

**M. van 't Hooft, K. Swan, Y. Lin, D. Cook**, What Is Ubiquitous Computing? **N. Shin, C. Norris, E. Soloway**, Findings From Early Research on One-to-One Handheld Use in K-12 Education. **D. Unger, D. Cook**, Integrating Handheld Computers Into Special Education Service Delivery.

#### Part II: *Teaching and Learning in Ubiquitous Environments: What Does It Look Like?*

**M. van 't Hooft, K. Anstadt, P. Jameson, J. Kelly, K. McClain**, Now You See It, Now You Don't: Ubiquitous Computing Technology in K-12 Classrooms. **L. Mifsud**, Using Handheld Technology in a Norwegian Sixth-Seventh Grade Classroom: Student Perceptions. **W. Penuel, E. Lynn, L. Berger**, Classroom Assessment With Handheld Computers. **A.R. Crowe**, Learning to Teach With Mobile Technology: A Teacher Educator's Journey.

#### Part III: *Ubiquitous Computing Research: What Do We Know?*

**A. Zucker**, A Framework for Studying 1:1 Computing Initiatives. **J. Schenker, A. Kratcoski, Y. Lin, K. Swan, M. van 't Hooft**, Researching Ubiquity: Ways to Capture It All. **P. Vahney, D. Tatar, J. Roschelle**, Using Handheld Technology to Move Between the Private and Public in the Classroom. **N. Hupert, J. Heinze**, Results in the Palms of Their Hands: Using Handheld Computers for Data-Driven Decision Making in the Classroom. **I. Gado, M. van 't Hooft**, Teachers' View of Computer Technology for Inquiry-Based Science Instruction in the Developing Country of Benin in West Africa: (Im)possibilities, Prospects, Dilemmas, or Catch-22?

#### Part IV: *The Future of Ubiquitous Computing: How Can We Make It Work?*

**K. Swan, A. Kratcoski, J. Schenker, D. Cook, Y. Lin**, The Ubiquitous Computing Classroom: A Glimpse of the Future Today. **I. Berson, M. Berson**, Ubiquitous Mobile Phone Technology and Youth: Cross-National Findings. **E. Dieterle, C. Dede**, Building University Faculty and Student Capacity to Use Wireless Handheld Devices for Learning. **Y. Rogers, S. Price**, Using Ubiquitous Computing to Extend and Enhance Learning Experiences.

# Ubiquitous Computing in Education

Invisible Technology, Visible Impact

Edited by

Mark van 't Hooft, Karen Swan

Kent State University

## SPECIAL DISCOUNT OFFER!

Save 20% with your prepaid order

Please send me **Ubiquitous Computing in Education: Invisible Technology, Visible Impact**, edited by Mark van't Hooft and Karen Swan as follows:

\_\_\_ cloth copies [5735-4] at the **special 20% discount price of \$79.95**  
(regularly \$99.95)

\_\_\_ paper copies [5736-2] at the **special 20% discount price of \$39.95**  
(regularly \$49.95)

- Payment enclosed (**U.S. currency only**. U.S. orders please include shipping charge of \$7.00 for the first book, plus \$2.00 for each additional book. International orders include shipping charge of **\$7.00 for each book ordered**.)

Total amount \$ \_\_\_\_\_

- Charge my  VISA  MasterCard  AMEX  Discover

Card # \_\_\_\_\_ Expiration Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Signature \_\_\_\_\_

(Credit card orders cannot be processed without your signature.)

Please print clearly to ensure proper delivery.

STREET ADDRESS/SUITE/ROOM# REQUIRED FOR DELIVERY.

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip+4 \_\_\_\_\_

Daytime Telephone # optional (\_\_\_\_) \_\_\_\_\_

E-mail Address optional \_\_\_\_\_

- Yes! I would like to receive an e-mail notification when new titles are published in my field.

**Mail this form to:** Lawrence Erlbaum Associates, Inc.

10 Industrial Avenue, Mahwah, NJ 07430-2262

**Phone:** (201) 258-2200 **Phone:** 1-800-926-6579

**Fax:** (201) 760-3735

**Email:** orders@erlbaum.com

**Web Orders:** Enter Coupon Code **SPCL** at prompt

*Prices are subject to change without notice. Offer valid only in North America. Canadian prices may be slightly higher. Orders from Europe should be directed to: The Eurospan Group, 3 Henrietta Street, Covent Garden, London WC2E 8LU, UK; visit us at [eurospangroup.com](http://eurospangroup.com); tel: +44 (0)20-7240-0856; fax: +44 (0)20-7379-0609; e-mail: [orders@edspubs.co.uk](mailto:orders@edspubs.co.uk).*

To Order

**LEA** Lawrence Erlbaum Associates