



# Sensing and Systems in Pervasive Computing: Engineering Context Aware Systems (Undergraduate Topics in Computer Science)

By Dan Chalmers

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Focus on issues and principles in context awareness, sensor processing and software design (rather than sensor networks or HCI or particular commercial systems).

Designed as a textbook, with readings and lab problems in most chapters.

Focus on concepts, algorithms and ideas rather than particular technologies.

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## **Editorial Review**

Review

From the reviews:

“Chalmers (Univ. of Sussex, UK) has written an interesting brief work related to smart phones, sensors, and other devices that are blending into the background and becoming invisible. ... can serve as a useful guide for graduate student researchers. ... The book could be used for an introduction to sensors course, a course in pervasive computing and research techniques, or an introduction to the area for research students. Summing Up: Recommended. Upper-division undergraduates and graduate students, as well as researchers in pervasive computing sensors.” (C. Tappert, Choice, Vol. 49 (6), February, 2012)

From the Back Cover

Pervasive Computing is an important area in current computer science research and industrial development. It relates to smart phones, sensors and other computing devices which, by being sensitive to the user, are disappearing into the background of life. The computing systems challenges are significant and it is here (rather than on life or social sciences, interaction design, electronics or formal approaches) that this book focuses. Success requires considering a broad range of issues, including:

Low power and a wide range of different hardware;

Personal and local area wireless networking and networks of smart sensors;

Location sensing and handling located data;

Adaptation to the environment, or context, in various ways;

Data processing which considers state, events, time-varying signals and noise;

Systems design for scalability and handling variation, beyond Internet scales.

Sensing and Systems in Pervasive Computing brings together these issues in a practical form for the undergraduate or postgraduate -- describing the core ideas and providing programming exercises which explore these issues. Many of the programming exercises are described in terms of the Phidgets sensor interfacing kits, but are easily adapted to other hardware. The references refer to recent research, but focuses on more established principles rather than the latest technology in the selection of ideas. Each chapter is accompanied by suggested readings, guiding the student into the large body of scientific papers in this area.

Depending on the emphasis given, Sensing and Systems in Pervasive Computing, can be used to support an introduction to the use of sensors; an advanced course on pervasive computing and research techniques; or to give an introduction to the area for research students. The approach taken includes mathematics where necessary without being overly technical, and includes guidance on problem solving and experimental techniques which some computing undergraduates seem to miss.

## **Users Review**

### **From reader reviews:**

#### **Marcy Madison:**

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