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Review

“This is an essential book for anyone interested in Augmented Reality, by two of the leading pioneers. It provides an outstanding foundation to the fast growing field of AR, both for those already in the field as well as those who just want to understand the technology more deeply.”

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–Ori Inbar, Executive Director, Augmented World Expo (augmentedworldexpo.com); CEO and founder, AugmentedReality.org

About the Author

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Today's Comprehensive and Authoritative Guide to Augmented Reality

By overlaying computer-generated information on the real world, augmented reality (AR) amplifies human perception and cognition in remarkable ways. Working in this fast-growing field requires knowledge of multiple disciplines, including computer vision, computer graphics, and human-computer interaction. *Augmented Reality: Principles and Practice* integrates all this knowledge into a single-source reference, presenting today's most significant work with scrupulous accuracy. Pioneering researchers Dieter Schmalstieg and Tobias Höllerer carefully balance principles and practice, illuminating AR from technical, methodological, and user perspectives.

Coverage includes

- Displays: head-mounted, handheld, projective, auditory, and haptic
- Tracking/sensing, including physical principles, sensor fusion, and real-time computer vision
- Calibration/registration, ensuring repeatable, accurate, coherent behavior
- Seamless blending of real and virtual objects
- Visualization to enhance intuitive understanding
- Interaction—from situated browsing to full 3D interaction
- Modeling new geometric content
- Authoring AR presentations and databases
- Architecting AR systems with real-time, multimedia, and distributed elements

This guide is indispensable for anyone interested in AR, including developers, engineers, students, instructors, researchers, and serious hobbyists.

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Excellent Reference

By Brendan Mattina

As a graduate student focusing on AR visualizations for thesis work, I needed an all encompassing reference to provide me with a foundation in AR and point me in the right direction to start development (quickly). Thus far this reference is providing all of the above. Strongly recommended for those just beginning in AR.

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Four Stars

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