User-Centered Software Development for the Blind and Visually Impaired: Emerging Research and Opportunities
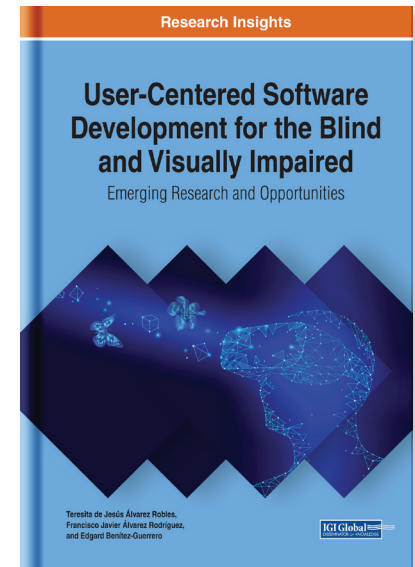
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Description:

Human-computer interaction studies the users and their interaction with an interactive software system (ISS). However, these studies are designed for people without any type of disability, causing there to be few existing techniques or tools that focus on the characteristics of a specific user, thus causing accessibility and utility issues for neglected segments of the population. This reference source intends to remedy this lack of research by supporting an ISS focused on people with visual impairment.

User-Centered Software Development for the Blind and Visually Impaired: Emerging Research and Opportunities is a collection of innovative research on techniques, applications, and methods for carrying out software projects in which the main users are people with visual impairments. While highlighting topics including mobile technology, assistive technologies, and human-computer interaction, this book is ideally designed for software developers, computer engineers, designers, academics, researchers, professionals, and educators interested in current research on usable and accessible technologies.

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Topics Covered:

- Artificial Network
- Assistive Technologies
- Augmented Reality
- Color Blindness
- Curriculum Development
- Game-Based Learning
- Human-Computer Interaction
- Instructional Design
- Mobile Technology
- Special Education

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