Abstract: MobileAccessibility is a new approach to providing useful mobile functionality to blind, low-vision, and deaf-blind people. This approach leverages the input sensors (GPS, camera, touch screen, microphone, compass, accelerometer, gyroscope, speech) with output modes (screen, speech, sound, vibration) and network services of modern smartphones to create inexpensive applications that solve accessibility problems. The talk will review recent progress and problems remaining to be solved. There will also be a discussion of the concept of "design for empowerment," which involves people with disabilities in the design process. For more information please visit http://mobileaccessibility.cs.washington.edu.

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