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## Ambient Diagnostics (Hardback)

By Yang Cai

Taylor Francis Inc, United States, 2015. Hardback. Condition: New. Language: English . Brand New Book. Ambient Diagnostics addresses innovative methods for discovering patterns from affordable devices, such as mobile phones, watches, cameras, and game interfaces, to interpret multimedia data for personal health monitoring and diagnosis. This is the first comprehensive textbook on multidisciplinary innovations in affordable healthcare-from sensory fusion, pattern detection, to classification. Connecting the Dots The material in this book combines sensing, pattern recognition, and visual design, and is divided into four parts, which cover fundamentals, multimedia intelligence, pervasive sensors, and crowdsourcing. The author describes basic pattern discovery models, sound, color, motion and video analytics, and pattern discovery from games and social networks. Each chapter contains the material s main concepts, as well as case studies, and extensive study questions. \* Contains overviews about diagnostic sensors on mobile phones \* Reflects the rapidly growing platforms for remote sensing, gaming, and social networking \* Incorporates cognitive tests such as fatigue detection \* Includes pseudo code and sample code \* Provides vision algorithms and multimedia analytics Covers Multimedia Intelligence Extensively Ambient Diagnostics includes concepts for ambient technologies such as point-and-search, the pill camera, active sensing with Kinect, digital human labs, negative...



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