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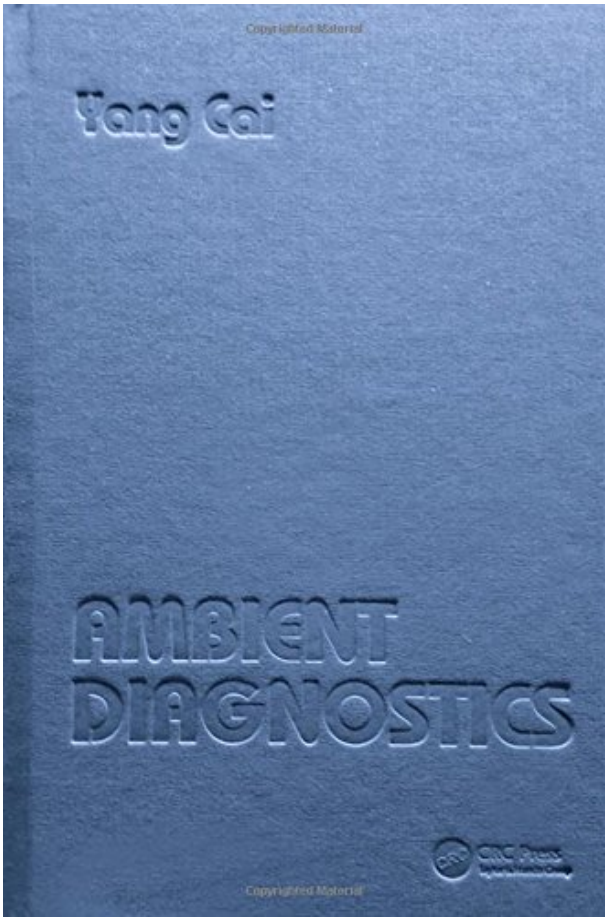

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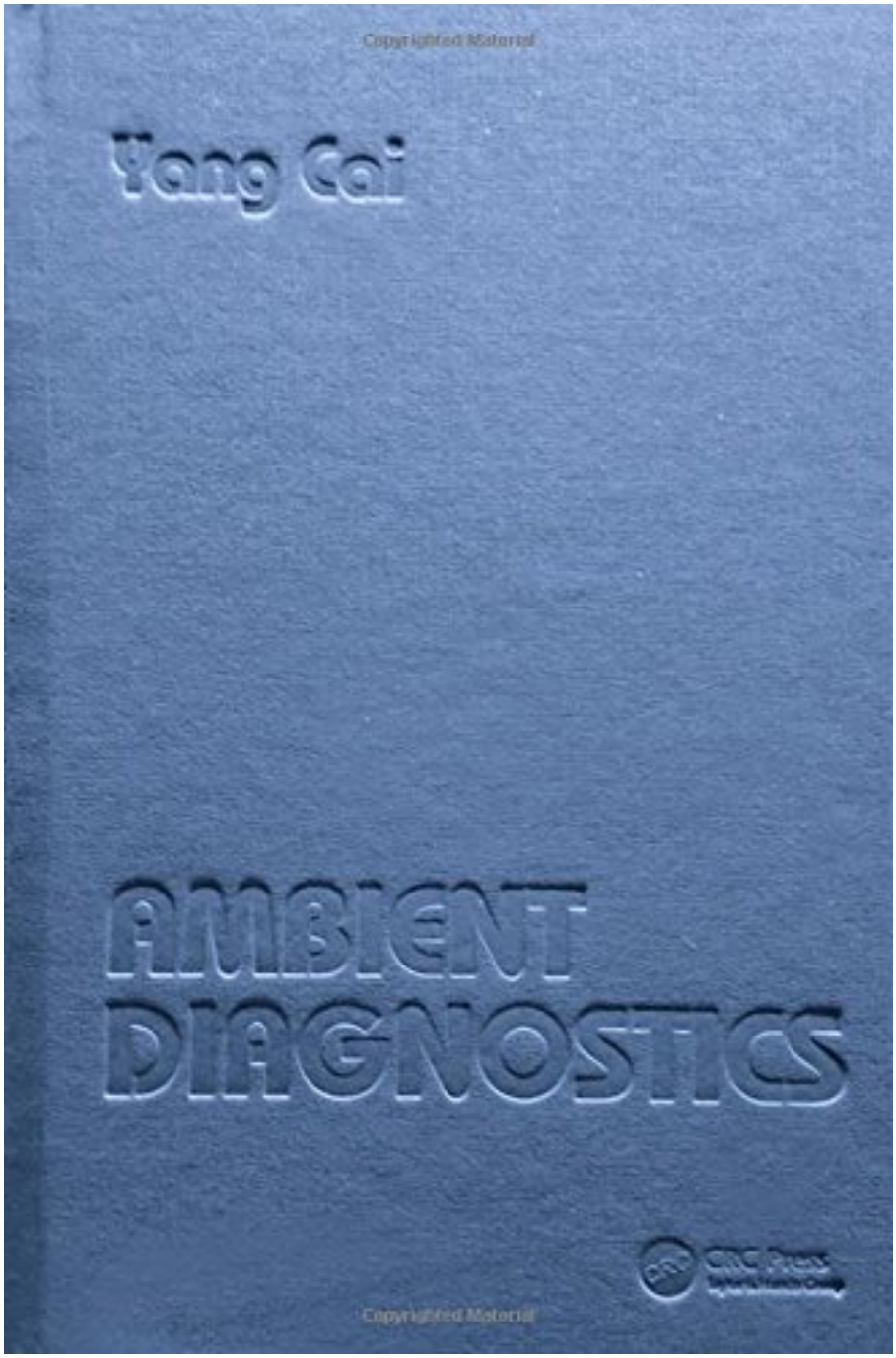

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Review

"… not only the first book of its kind, it’s the only reference I know of that shows how designers and engineers might create a new world of ambient healthcare with non-invasive, low-cost and accessible sensors. Yang Cai’s book is a very readable, extremely comprehensive collection of technologies and applications for readily accessible sensors and mobile technologies for immediate application in everyday diagnosis across the spectrum of health situations. Yang Cai’s book is especially valuable as a deeply-researched and reliable source for engineers, product and medical device designers to quickly learn and adapt the emerging tools and sensors to facilitate what is so brilliantly framed as "ambient diagnostics."
?Peter Jones, PhD, OCAD University, Toronto

"The main contribution of this book is a comprehensive transversal approach that combines this ample background into a single matter … a combination of diverse methodologies and strategies that are directly applicable to sense, perceive and recognize a great diversity of ambient parameters. Its easy-to-read style and its frequent references to real life examples make the book very attractive to the reader."
?Julio Abascal, University of the Basque Country/Euskal Herriko Unibertsitatea

About the Author

Yang Cai is a computer scientist at Carnegie Mellon University, where he has taught graduate courses in cognitive video, multimedia, human algorithms, creativity, and innovation process. Cai is the founder of the Visual Intelligence Studio and author of the emerging theories of instinctive computing, ambient diagnostics, and empathic computing. He has hosted international workshops on ambient intelligence for scientific discovery, instinctive computing, digital human modeling, and video intelligence. He has been working on research projects with the National Science Foundation, NASA, the Air Force Research Lab, and various industries.

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AMBIENT DIAGNOSTICS BY YANG CAI PDF

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 and relative feature spaces, and semantic representations. The book also introduces methods for collective intelligence from online video games and social media.

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