

# Foundations and Applications of Sensor Management

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## Reviews

This book is indeed gripping and interesting. It really is rally exciting throgh studying period. Its been written in an extremely easy way and is particularly merely soon after i finished reading this book through which in fact changed me, affect the way i think. (Aisha Lemke)

### FOUNDATIONS AND APPLICATIONS OF SENSOR MANAGEMENT



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Springer-Verlag Gmbh Nov 2007, 2007. Buch. Condition: Neu. Neuware - Foundations and Applications of Sensor Management presents the emerging theory of sensor management with applications to real-world examples such as landmine detection, adaptive signal and image sampling, multi-target tracking, and radar waveform scheduling. It is written by leading experts in the field for a diverse engineering audience ranging from signal processing, to automatic control, statistics, and machine learning. The level of treatment of the book is tutorial and self-contained. The chapters of the book followa logical development from theoretical foundations to approximate approaches and ending with applications. The coverage includes the following topics: stochastic control foundations of sensor management; multi-armed bandits and their connections to sensor management; information-theoretic approaches; managed sensing for multi-target tracking; approximation methods based on embedded simulation; active learning for classification and sampling; and waveform scheduling for radar. An appendix is included to provide essential background on topics the reader may not have encountered as a first-year graduate student: Markov decision processes; information theory; and stopping times. Foundations and Applications of Sensor Management is an important reference for signal processing and control engineers and researchers as well as machine learning application developers. 310 pp. Englisch.

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