



Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC)

Lawrence Klein

Download now

[Click here](#) if your download doesn't start automatically

Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC)

Lawrence Klein

Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) Lawrence Klein

This book describes the benefits of sensor fusion as illustrated by considering the characteristics of infrared, microwave, and millimeter-wave sensors, including the influence of the atmosphere on their performance, sensor system application scenarios that may limit sensor size but still require high resolution data, and the attributes of data fusion architectures and algorithms. The data fusion algorithms discussed in detail include classical inference, Bayesian inference, Dempster-Shafer evidential theory, artificial neural networks, voting logic as derived from Boolean algebra expressions, fuzzy logic, and detection and tracking of objects using only passively acquired data. A summary is presented of the information required to implement each of the data fusion algorithms discussed.

Weather forecasting, Earth resource surveys that use remote sensing, vehicular traffic management, target classification and tracking, military and homeland defense, and battlefield assessment are some of the applications that will benefit from the discussions of signature-generation phenomena, sensor fusion architectures, and data fusion algorithms provided in this text.

Contents

- List of Figures
- List of Tables
- Preface
- Introduction
- Multiple Sensor System Applications, Benefits, and Design Considerations
- Data Fusion Algorithms and Architectures
- Classical Inference
- Bayesian Inference
- Dempster-Shafer Evidential Theory
- Artificial Neural Networks
- Voting Logic Fusion
- Fuzzy Logic and Fuzzy Neural Networks
- Passive Data Association Techniques for Unambiguous Location of Targets
- Retrospective Comments
- Appendix A: Planck Radiation Law and Radiative Transfer
- Appendix B: Voting Fusion with Nested Confidence Levels
- Index

 [Download Sensor and Data Fusion: A Tool for Information Ass ...pdf](#)

 [Read Online Sensor and Data Fusion: A Tool for Information A ...pdf](#)

Download and Read Free Online Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) Lawrence Klein

From reader reviews:

Marjorie Ingram:

The book Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) give you a sense of feeling enjoy for your spare time. You can utilize to make your capable far more increase. Book can to get your best friend when you getting tension or having big problem with the subject. If you can make reading a book Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) to get your habit, you can get far more advantages, like add your personal capable, increase your knowledge about some or all subjects. You are able to know everything if you like open up and read a book Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC). Kinds of book are a lot of. It means that, science publication or encyclopedia or other individuals. So , how do you think about this publication?

Kiley Kaufman:

The reserve untitled Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) is the e-book that recommended to you to read. You can see the quality of the reserve content that will be shown to anyone. The language that author use to explained their way of doing something is easily to understand. The author was did a lot of exploration when write the book, therefore the information that they share to you is absolutely accurate. You also will get the e-book of Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) from the publisher to make you much more enjoy free time.

Carol Welch:

As we know that book is vital thing to add our expertise for everything. By a reserve we can know everything we want. A book is a group of written, printed, illustrated or blank sheet. Every year has been exactly added. This publication Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) was filled with regards to science. Spend your time to add your knowledge about your science competence. Some people has various feel when they reading a new book. If you know how big benefit of a book, you can feel enjoy to read a book. In the modern era like now, many ways to get book that you simply wanted.

Nancy Stever:

As a university student exactly feel bored for you to reading. If their teacher asked them to go to the library in order to make summary for some book, they are complained. Just small students that has reading's spirit or real their hobby. They just do what the educator want, like asked to go to the library. They go to presently there but nothing reading really. Any students feel that looking at is not important, boring as well as can't see colorful pictures on there. Yeah, it is to be complicated. Book is very important for you. As we know that on

this period, many ways to get whatever we want. Likewise word says, many ways to reach Chinese's country. So , this Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) can make you truly feel more interested to read.

Download and Read Online Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) Lawrence Klein #CX30Y4QVJ1R

Read Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein for online ebook

Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein books to read online.

Online Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein ebook PDF download

Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein Doc

Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein Mobipocket

Sensor and Data Fusion: A Tool for Information Assessment and Decision Making (SPIE Press Monograph Vol. PM138SC) by Lawrence Klein EPub