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Data Fusion: Concepts and Ideas

- Comprehensive introduction to the concepts and idea of multisensor data fusion
- Illustrated with many real-life examples taken from a diverse range of applications and contains an extensive list of modern references
- Self-contained book, no previous knowledge of multi-sensor data fusion is assumed

“Data Fusion: Concepts and Ideas” provides a comprehensive introduction to the concepts and idea of multisensor data fusion. This textbook is an extensively revised second edition of the author’s successful book: "Multi-Sensor Data Fusion: An Introduction". The book is self-contained and no previous knowledge of multi-sensor data fusion is assumed. The reader is made familiar with tools taken from a wide range of diverse subjects including: neural networks, signal processing, statistical estimation, tracking algorithms, computer vision and control theory which are combined by using a common statistical framework. As a consequence, the underlying pattern of relationships that exists between the different methodologies is made evident. The book is illustrated with many real-life examples taken from a diverse range of applications and contains an extensive list of modern references. The new completely revised and updated edition includes nearly 70 pages of new material including a full new chapter as well as approximately 30 new sections, 50 new examples and 100 new references as well as additional Matlab code where appropriate.