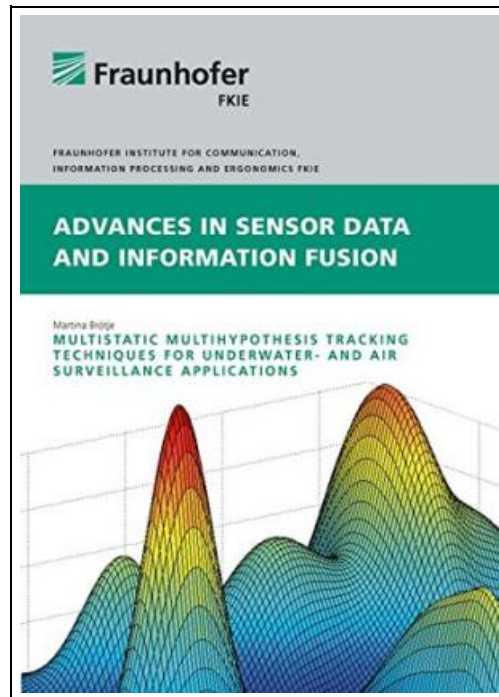


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Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

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Gca Ges.F.Computeranw. Mai 2013, 2013. Buch. Condition: Neu. Neuware - We developed and discussed diverse concepts of multistatic target tracking based on the multihypothesis tracking approach. When suiting a tracking technique to the specific application, it is necessary to specify models to describe the physical phenomena. Thus, the tracking systems must reflect the available knowledge about the sonar or radar system. The analysis of simulated and real data sets showed that the advantages of multistatic sonar can only be exploited if the measurement model is correct. That is, we need to interpret correctly the measurement information and the events of false alarms and missed detections. However, the precision of modeling knowledge for underwater sound is limited by the stochastic fluctuations/uncertainties. Therefore, in order to provide a robust algorithm it is important not to overestimate the accuracy of the modeling. In the passive radar application a precise measurement modeling is not only useful but essential in order to distinguish between ghosts and targets. We discussed two Deghosting approaches, which are both based on a hard constraint logic: The LR approach displays tracks that are confirmed by at least d illuminators, the IP approach finds the best multi-target interpretation in which every R/D track is used exactly once. Taking into account hard constraints is necessary to handle the ghosting problem. However, this causes sensitivity of the tracking approach, which needs to be compensated by the robustness of the other components of the tracking approach. To develop a robust and efficient tracking approach we have to consider different aspects that have decisive influence on the successful operation of the complete system. The non-linear Kalman Filter update and the Gaussian sum initialization from measurements of two illuminators were therefore discussed separately and analyzed by detailed numerical simulations. When developing a tracking...



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