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Multisensor Data Fusion: From Algorithms and Architectural Design to Applications by Hassen Fourati English | 2016 | ISBN-10: 1482263742 | 663 pages | PDF | 43 MB

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Multisensor data fusion is the process of combining observations from a number of different sensors to provide a robust and complete description of an environment or process of interest. Data...

~~(PDF) Implementation of Multisensor Data Fusion Algorithm~~

Multisensor data fusion is not a single technology but an interdisciplinary comprehensive theory and method. This is a new research field, still in the process of constant change and development. However, there is still no unified fusion theory and effective generalized fusion model and algorithm for data fusion.

~~Multi-sensor measurement and data fusion technology for ...~~

Multisensor data fusion algorithms Regardless of how different components (modules) of the data fusion system are organized, which is specified by the given fusion architecture, the underlying fusion algorithms must ultimately process (fuse) the input data.

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Data level fusion algorithms usually aim to combine multiple homogeneous sources of sensory data to achieve more accurate and synthetic readings. When portable devices are employed data compression represent an important factor, since collecting raw information from multiple sources generates huge information spaces that could define an issue in terms of memory or communication bandwidth for portable systems.

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~~Sensor fusion — Wikipedia~~

The new data fusion algorithm presented in this paper allows one to combine information from different sensors in continuous time. Continuous-time decentralized Kalman filters (DKF) are used as data fusion devices on local subsystems. Such a structure gives the flexibility for reconfiguration of a control system. New subsystems can

~~A Data Fusion Algorithm for Multisensor Systems~~

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In this paper, a multisensor data fusion algorithm based on GP is presented for precision measurement of freeform surfaces. It can be applied to the data fusion process of 3D point clouds obtained from the same complex surface by multiple sensors.

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Data fusion is the process of integrating multiple data sources to produce more consistent, accurate, and useful information than that provided by any individual data source. Data fusion processes are often categorized as low, intermediate, or high, depending on the processing stage at which fusion takes place.

~~Data fusion—Wikipedia~~

When the multisensor self-adaptive weighted fusion algorithm fuses the data sources that were severely interfered by noise, its fusion precision, data smoothness, and algorithm stability will be reduced.

~~An Improved Multisensor Self-Adaptive Weighted Fusion ...~~

Multisensor data fusion is the process of combining observations from a number of different sensors to provide a robust and complete description of an environment or process of interest. Data fusion finds wide application in many areas of robotics such as object recognition, environment mapping, and localization.

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