

# An Introduction to Multisensor Data Fusion

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*Invited Paper*

*Multisensor data fusion is an emerging technology applied to Department of Defense (DoD) areas such as automated target recognition, battlefield surveillance, and guidance and control of autonomous vehicles, and to non-DoD applications such as monitoring of complex machinery, medical diagnosis, and smart buildings. Techniques for multisensor data fusion are drawn from a wide range of areas including artificial intelligence, pattern recognition, statistical estimation, and other areas. This paper provides a tutorial on data fusion, introducing data fusion applications, process models, and identification of applicable techniques. Comments are made on the state-of-the-art in data fusion.*

## I. INTRODUCTION

In recent years, multisensor data fusion has received significant attention for both military and nonmilitary applications. Data fusion techniques combine data from multiple sensors, and related information from associated databases, to achieve improved accuracies and more specific inferences than could be achieved by the use of a single sensor alone [1]–[4]. The concept of multisensor data fusion is hardly new. Humans and animals have evolved the capability to use multiple senses to improve their ability to survive. For example, it may not be possible to assess the quality of an edible substance based solely on the sense of vision or touch, but evaluation of edibility may be achieved using a combination of sight, touch, smell, and taste. Similarly, while one is unable to see around corners or through vegetation, the sense of hearing can provide advanced warning of impending dangers. Thus multisensory data fusion is naturally performed by animals and humans to achieve more accurate assessment of the surrounding environment and identification of threats, thereby improving their chances of survival.

While the concept of data fusion is not new, the emergence of new sensors, advanced processing techniques, and improved processing hardware make real-time fusion of data increasingly possible [5], [6]. Just as the advent of symbolic processing computers (*viz.*, the SYMBOLIC's

computer and the Lambda machine) in the early 1970's provided an impetus to artificial intelligence [119], recent advances in computing and sensing have provided the ability to emulate, in hardware and software, the natural data fusion capabilities of humans and animals. Currently, data fusion systems are used extensively for target tracking, automated identification of targets, and limited automated reasoning applications. Spurred by significant expenditures by the Department of Defense (DoD), data fusion technology has rapidly advanced from a loose collection of related techniques, to an emerging true engineering discipline with standardized terminology (see Fig. 1), collections of robust mathematical techniques [2]–[4], and established system design principles. Software in the area of data fusion applications is becoming available in the commercial marketplace [16].

Applications for multisensor data fusion are widespread. Military applications include: automated target recognition (e.g., for smart weapons), guidance for autonomous vehicles, remote sensing, battlefield surveillance, and automated threat recognition systems, such as identification-friendly-neutral (IFIN) systems [14]. Nonmilitary applications include monitoring of manufacturing processes, condition-based maintenance of complex machinery, robotics [129], and medical applications. Techniques to combine or fuse data are drawn from a diverse set of more traditional disciplines including: digital signal processing, statistical estimation, control theory, artificial intelligence, and classic numerical methods [16], [12], [54]. Historically, data fusion methods were developed primarily for military applications. However, in recent years these methods have been applied to civilian applications, and there has been bidirectional technology transfer [5]. Various annual conferences provide a forum for discussing data fusion applications and techniques [7]–[10].

In principle, fusion of multisensor data provides significant advantages over single source data. In addition to the statistical advantage gained by combining same-source data (e.g., obtaining an improved estimate of a physical phenomena via redundant observations), the use of multiple types of sensors may increase the accuracy with which a quantity can be observed and characterized. In the accompanying

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# Multi Sensor Data Fusion An Introduction

**Thomas Griffiths**



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