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Data Fusion Mathematics: Theory and Practice



Fills the prevailing Gap of Mathematics for Data Fusion Data fusion (DF) combines large amounts of details from a variety of resources and fuses this data algorithmically, logically and, if required intelligently, using artificial cleverness (AI). Focuses on Mathematical Tools That Make use of Data Fusion This text message explores the use of statistical/probabilistic signal/image processing, filtering, element analysis, picture algebra, decision making, and neuro-FL-GA paradigms in studying, developing and validating data fusion processes (DFP). This text is aimed toward researchers, researchers, teachers and practicing engineers interested and employed in the multisensor data fusion area. It tries to solution whether unified data fusion mathematics can evolve from numerous disparate mathematical concepts, and highlights mathematics that can add credibility to the data fusion process. The material covered may be used for evaluation of the performances of any designed and developed DF systems. Also, referred to as sensor data fusion (SDF), the DF fusion program is an important component for use in various applications that include the monitoring of automobiles, aerospace systems, large-level structures, and large commercial automation plants. It covers major mathematical expressions, and formulae and equations as well as, where feasible, their derivations. It also discusses SDF concepts, DF models and architectures, factors and methods of type 1 and 2 fuzzy logics, and related useful applications. In addition, the author covers smooth computing paradigms that are finding increasing applications in multisensory DF techniques and applications. This book: Explores the usage of interval type 2 fuzzy logic and ANFIS in DF Covers the mathematical treatment of several types of filtering algorithms, target-tracking strategies, and kinematic DF methods Presents single and multi-sensor tracking and fusion mathematics Considers specific DF architectures in the context of decentralized systems Discusses information filtering, Bayesian approaches, several DF rules, picture algebra and image fusion, decision fusion, and wireless sensor network (WSN) multimodality fusion Data Fusion Mathematics: Theory and Practice includes concepts, processes, methods, and techniques in data fusion that will help you with integrating DF mathematics and attaining higher levels of fusion activity, and clearness of efficiency. Data Fusion Mathematics: Theory and Practice gives a comprehensive overview of data fusion, and provides an effective and adequate knowledge of the essential mathematics directly related to DF.



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