

## Belief Theoretic Methods For Soft And Hard Data Fusion

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### Belief Theoretic Methods For Soft

In this paper, we describe a framework for fusing soft and hard data based on the Dempster-Shafer (DS) belief theoretic approach which is well-suited to the task of capturing the types of models...

### (PDF) Belief theoretic methods for soft and hard data fusion

based on the Dempster-Shafer (DS) belief theoretic approach which is well-suited to the task of capturing the types of models and uncertain rules that are more typical of soft data. Since the effectiveness of traditional DS methods has been hampered by high computational requirements, we base the processing framework on our new condi-

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### Belief Theoretic Methods For Soft And Hard Data Fusion

Nunez Sanchez, Rafael Camilo, "Novel Methods for Reasoning with Uncertain Hard and Soft Data using Probabilistic and Belief Theoretic Methods" (2018). Open Access Dissertations . 2204.

### "Novel Methods for Reasoning with Uncertain Hard and Soft ...

The theory of belief functions, also referred to as evidence theory or Dempster-Shafer theory (DST), is a general framework for reasoning with

uncertainty, with understood connections to other frameworks such as probability, possibility and imprecise probability theories. First introduced by Arthur P. Dempster in the context of statistical inference, the theory was later developed by Glenn ...

### **Dempster-Shafer theory - Wikipedia**

soft/hard fusion environment. This strategy is based on DS belief theory which allows for convenient representation of uncertainties that are typical of soft/hard domains. The Fagin-Halpern (FH) notion is perhaps the most appropriate DST conditional notion for soft/hard data fusion scenarios. It also forms the basis for our fusion framework.

### **UNIVERSITY OF MIAMI AN ANALYTICAL FRAMEWORK FOR SOFT AND ...**

ubler, "Belief theoretic methods for soft and hard data fusion, " in Proc. International Conference on Statistical Signal Processing (ICASSP'11) , Prague, Czech Republic, May 2011.

### **Monte-Carlo approximations for Dempster-Shafer belief ...**

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): Assignment methods are at the heart of many algorithms for unsupervised learning and clustering --- in particular, the well-known K-means and Expectation-Maximization (EM) algorithms. In this work, we study several different methods of assignment, including the "hard" assignments used by K-means and the "soft ...

### **An Information-Theoretic Analysis of Hard and Soft ...**

Abstract. Assignment methods are at the heart of many algorithms for unsupervised learning and clustering — in particular, the well-known K-means and Expectation-Maximization (EM) algorithms. In this work, we study several different methods of assignment, including the "hard" assignments used by K-means and the "soft" assignments used by EM.. While it is known that K-means minimizes ...

### **An Information-Theoretic Analysis of Hard and Soft ...**

individual's system of beliefs is normal. Normality is the most basic logical property of a system of beliefs in the possible world semantics of Kripke [14] and Hintikka [13]. Suppose that belief is generated by an accessibility, or possibility, relation specifying which states are believed possible in which other states.

### **The Logic of Belief and Belief Change: A Decision ...**

The core of the belief function given by  $m$  is equal to the intersection of the cores of Bel 1 and Bel 2.  $k$  represents basic probability mass associated with conflict. The constant  $k$  measures the extent of conflict between the two belief functions. 3. Materials and methods. A flying object is detected by a sensor when it comes within its ...

### **Evidence theoretic classification of ballistic missiles ...**

In this paper, we propose a Dempster-Shafer (DS) theoretic evidence updating method that appears to be better suited for fusing hard and soft information. DS theory overcomes Bayesian probability's drawback of a-priori assumptions regarding the underlying distributions and priors to a large extent [3, 4].

### **A Dempster-Shafer Theoretic Conditional Approach to ...**

Belief Theoretic Methods for Soft and Hard Data Fusion IEEE Int. Conf. on Acoustic, Speech, and Signal Processing (ICASSP), Prague, Czech Republic

### **Marco Pravia - Chief Scientist - BAE Systems FAST Labs ...**

This chapter introduces a belief theoretic method for classification from databases having class label ambiguities. It uses a set of association rules extracted from such a database. It is assumed that a training data set with an adequate number of pre-classified instances, where each instance is assigned with an integer class label, is available.

### **Using Association Rules for Classification from Databases ...**

Belief Theoretic Algorithms Thanuka L. Wickramaratne, Kamal Premaratne, Manohar N. Murthi ... soft evidence (e.g., HUMINT from informant and domain expert statements) which is often initially non-numerical and ... methods have gained importance in many probabilistic signal processing methods. For example, sampling methods are

### **Monte-Carlo Approximations for Dempster-Shafer Belief ...**

Some success has been achieved by the dominant traditional methods of modeling soft sensors based on statistics, such as principal components analysis (PCA) and partial least square (PLS), but such sensors usually become inaccurate and inefficient when processing strong nonlinear data.

### **Soft sensor based on stacked auto-encoder deep neural ...**

ulatable format. Based on this construct, we propose to develop methods for negotiating over and merging of conceptual models on top of an extension to the Dempster-Shafer theory of evidence called Subjective logic. The approach shall mainly focus on the formalization of uncertainty and expert reliability through the employment of belief ...

### **The Integration of Para-consistent Conceptual Models ...**

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