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... Thanuka Wickramaratne -**

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Wickramaratne y, K. Premaratne , M. N.

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belief theoretic framework appears to

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possess certain advantages over other alternatives for capturing the types of imperfections that are more typical of soft evidence. For example, DS...

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approach which is well-suited to the task of capturing the types of models and uncertain rules that are more typical of

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

Numerous applications rely on implication rules either as models of

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causal relations among data, or as components of their reasoning and inference systems. Although mature and robust models of implication rules already exist for “perfect” (e.g., boolean) scenarios, there is still a need for improving implication rule models when the data (or system models) are uncertain, ambiguous, vague ...

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Dempster-Shafer Belief Theoretic
Algorithms Thanuka L. Wickramarathne,
Kamal Premaratne, Manohar N. Murthi ...
we present a method for complexity
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from informant and domain

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Monte-Carlo approximations for Dempster-Shafer belief theoretic algorithms ... Shafer theoretic approach to hard and soft data fusion that relies upon the novel conditional approach to updating ...

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A Dempster-Shafer Theoretic Conditional Approach to Evidence Updating for Fusion of Hard and Soft Data ... 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 ... the DS theoretic belief and plausibility measures

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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 and uncertain rules that are

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more typical of soft data.

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Novel Methods for Reasoning with
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Probabilistic and Belief Theoretic
Methods (December 2018) Abstract of a
dissertation at the University of Miami.

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Dissertation supervised by Associate Professor Manohar N. Murthi. No. of pages in text. (124) Effectively combining multiple and complementary sources of information ...

*Random Set Theoretic Soft/Hard Data
Fusion Framework ...*

An Analytical Framework for Soft and

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Hard Data Fusion: A Dempster-Shafer Belief Theoretic Approach (August 2012)
Abstract of a dissertation at the University of Miami. Dissertation supervised by Professor Kamal Premaratne. No. of pages in text: (213)
The recent experiences of asymmetric urban military operations have highlighted

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*The Logic of Belief and Belief Change: A
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Acoustic, Speech, and Signal Processing
(ICASSP), Prague, Czech Republic In
many contexts, one is confronted with
the...

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Dempster-Shafer theory - Wikipedia

The Logic of Belief and Belief Change: A
Decision Theoretic Approach Stephen
Morris* Department of Economics,
University of Pennsylvania, 3718 Locust
Walk, Philadelphia, Pennsylvania 19104
Savage [L. Savage, "The Foundations of
Statistics," Wiley, New York, 1954]

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showed how properties of a decision maker's probabilistic beliefs can ...

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

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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 ...

A Belief Theoretic Approach for

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Automated Collaborative ...

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

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Thanuka Wickramarathne - Google

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Relying on the random set theory, a new data fusion framework is proposed to enable fusion of both soft and hard data. First, soft and hard data are modeled in a unified approach.

A Dempster-Shafer Theoretic Conditional Approach to ...

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The "soft" predictions that CoFiDS generates provide substantial exhibility to the do-main expert. Depending on the associated DS theoretic belief-plausibility measures, the domain expert can either render a "hard" decision or narrow down the possible set of predictions to as smaller set as necessary. With its capability to

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accommodate data imper-

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