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Expert Probability
Elicitation Tools

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Expert Probability Elicitation Tools

Developing tools to support probability elicitation can lead to

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more efficient use of experts, to more accurate estimates, and to a better understanding of the rationales underpinning judgments. Three major studies were completed this year. The first study was inspired by a project for NBACC and has gained considerable interest at RMA.

Expert Probability

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Elicitation Tools | CREATE

Developing tools to support probability elicitation can lead to more efficient use of experts, to more accurate estimates, and to a better understanding of the rationales underpinning judgments. ... The expert judgments were modeled as being well calibrated and were combined

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Expert Probability Elicitation Tools Stephen C. Hora ...

We present in this paper a web-based tool developed to enable expert elicitation of the probabilities associated with a Bayesian Network. The motivation behind this tool is to enable assessment of...

(PDF) A Web-based Tool for Expert Elicitation in ...

A web-based tool for

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eliciting probability distributions from experts

1. Introduction. When modelling an environmental system, suitable data are not always available for obtaining robust...

2. Eliciting a univariate probability distribution. We consider elicitation for a univariate uncertain ...

A web-based tool for eliciting probability distributions ...

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Expert elicitation is a useful tool to explore sources of uncertainty and to answer questions where data are expensive or difficult to collect. It has been used across a variety of disciplines and represents an important method for estimating source attribution for enteric illness.

Systematic Review of Expert Elicitation

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Methods as a Tool ...

Elicitation is the process of extracting expert knowledge about some unknown quantity or quantities, and formulating that information as a probability distribution. Elicitation is important in situations, such as modelling the safety of nuclear installations or assessing the risk of terrorist attacks, where expert knowledge is essentially the only

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source of good
information.

Uncertain Judgements: Eliciting Experts' Probabilities | Wiley

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modelling the safety of nuclear installations or assessing the risk of terrorist attacks, where expert knowledge is essentially the ...

Amazon.com: Uncertain Judgements: Eliciting Experts ...

A variety of computer tools have been developed and used in support of expert elicitation . Some of these are quite specific

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to the process of elicitation (51 , 52); others, such as tools for constructing influence diagrams and Bayesian belief nets, are much more general in nature.

Use (and abuse) of expert elicitation in support of ...

The variogram is the keystone of geostatistics.

Estimation of the variogram is deficient

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and difficult when
there are no or too few
observations avail...

Web-based tool for expert elicitation of the variogram

In science,
engineering, and
research, expert
elicitation is the
synthesis of opinions of
authorities of a subject
where there is
uncertainty due to
insufficient data or
when such data is

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unattainable because of physical constraints or lack of resources. Expert elicitation is essentially a scientific consensus methodology. It is often used in the study of rare events.

Expert elicitation - Wikipedia

To fulfil these requirements, an Excel-based tool ("EXPLICIT", EXPert eLICitation Tool) was developed.

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EXPLICIT was based on the Excel template used in a previous study [18], which allowed for visual feedback to the expert and real-time fitting of smooth parametric distributions to the histogram based on the expert's summaries.

**EXPLICIT: a
feasibility study of
remote expert
elicitation ...**

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provided by the expert, the elicitation tool produces a detailed and flexible probability distribution which can be asymmetric, non-parametric or unbounded in nature.

An expert elicitation tool to capture probabilistic ...

We present a web-based probability distribution elicitation tool: The MATCH Uncertainty Elicitation

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Tool. The Tool is designed to help elicit probability distributions about uncertain model...

(PDF) A web-based tool for eliciting probability ...

This range will be used in various plots throughout the elicitation tool. The smaller the range, the better, but you should be certain that the uncertain quantity will

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not lie outside this range. Select the input mode you want to use, to elicit your probability judgements.

Uncertainty Elicitation Tool - Applied Optics

failure probability of structures. KEYWORDS bias, calibration, debiasing, elicitation, expert judgement, failure probability, levees 1 |

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INTRODUCTION River levees are structures that are raised above the natural level of the land in view to protecting naturally floodable areas (Peyras et al., 2015).
Evaluating the reli-

the probabilities of failure. However, expert judgement ...

The SHEffield ELicitation Framework (SHELF) is a package of documents, templates

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and software to carry out elicitation of probability distributions for uncertain quantities from a group of experts. Elicitation is increasingly important for quantifying expert knowledge in

SHELF: the Sheffield Elicitation Framework

An elicitation tool was necessary for the elicitation sessions, which experts could

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use by themselves with some assistance (in face-to-face elicitation) or no assistance (in distance elicitation). Among the readily available elicitation tools, none was directly usable in this study, as they were generally intended for specific fields or covered only the encoding part of the elicitation.

**EXPLICIT: a
feasibility study of**

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remote expert elicitation ...

Overconfidence of experts is one of the crucial issues in expert elicitation (O'Hagan et al., 2006), resulting in elicited probability distributions with little uncertainty. In the seminal work of O'Hagan et al. (2006), feedback is named as the most natural way to improve the accuracy of elicited beliefs, with interactive

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software being ...

Frontiers | Expert Elicitation for Latent Growth Curve ...

Downloadable (with restrictions)! Bayesian networks are now widespread for modelling uncertain knowledge. They graph probabilistic relationships, which are quantified using conditional probability tables (CPTs). When empirical data are

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unavailable, experts may specify CPTs. Here we propose novel methodology for quantifying CPTs: a Bayesian statistical approach to both elicitation and encoding ...

Quantifying conditional probability tables in Bayesian ...

Default Estimation,
Correlated Defaults,
and Expert Information

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Nicholas M. Kiefer¹
Cornell University April
21, 2008 ¹Cornell
University,
Departments of
Economics and
Statistical Science, 490
Uris Hall, Ithaca, NY
14853-7601, US. email:
nicholas.kiefer@cornell
.edu; US Department of
the

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