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## **Physics From Fisher Information A**

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unifying principle of physics, that of 'extreme physical information'. The information in question is Fisher information, a simple concept little known to physicists. Both statistical and physical properties of Fisher information are developed. This information is shown to be a physical measure of disorder, sharing with entropy the property of

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PHYSICS FROM FISHER INFORMATION. A  
Unification. This book defines and  
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that of 'extreme physical information'.  
The information in question is, perhaps

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surprisingly, not Shannon or Boltzmann entropy but, rather, Fisher information, a simple concept little known to physicists.

## **PHYSICS FROM FISHER INFORMATION**

The beginnings of this were seeded in a work in 1999 by Frieden titled "Physics from Fisher Information" [2]. In this book



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Fisher information is a quantity devised by the great statistician R. A. Fisher in the 1920s, which is supposed to tell us how easy it is to learn about a probability distribution by sampling from it.

Suppose that the distribution, given by a probability density  $p$ , depends on some parameter, traditionally represented by the Greek

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letter theta, and here by t.

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The Fisher information is used for quantum state estimation and considered as a physical resource associated with various quantities.

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Extreme physical information is a principle in information theory, first described and formulated in 1998 by B. Roy Frieden, Emeritus Professor of Optical Sciences at the University of Arizona. The principle states that the precipitation of scientific laws can be

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derived through Fisher information, taking the form of differential equations and probability distribution functions.

## **Extreme physical information - Wikipedia**

It is defined as  $V [\partial/\partial\theta (\ln f (X,\theta)) ]=E [ (\partial/\partial\theta [\ln f (X,\theta)])^2 ]$ . The Fisher information is a way of measuring the

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amount of information that an observable random variable  $X$  carries about an unknown parameter  $\theta$  upon which the probability of  $X$  depends.

## **How to understand fisher information ? | Physics Forums**

In a theory developed by B. Roy Frieden, "physical information" is defined as the



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loss of Fisher information that is incurred during the observation of a physical effect. Thus, if the effect has an intrinsic information level  $J$  but is observed at information level  $I$ , the physical information is defined to be the difference  $I - J$ . This defines an information Lagrangian.

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## **Physical information - Wikipedia**

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chologists, the concept of Fisher information plays an important role. In this tutorial we clarify the concept of Fisher information as it manifests itself across three different statistical

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paradigms. First, in the frequentist paradigm, Fisher information is used to construct hypothesis tests and

## **A Tutorial on Fisher Information**

B.R.Frieden, Physics From Fisher  
Information

(Cambridge:CambridgeUniversity  
Press), xx+240pp., £47:50;

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ISBN:0-521-63167-X. ... within the area of the foundations of physics, confined himself to statistical ... where  $I^{1/2}q$  is the Fisher information. For one variable  $x$  distributed with a probability

## **Essay review**

### **Physics from Fisher information**

Physics from Fisher information : a

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unification. [B Roy Frieden] -- This book defines and develops a unifying principle of physics, that of 'extreme physical information'. The information in question is, perhaps surprisingly, not Shannon or Boltzmann entropy but, ...

**Physics from Fisher information : a unification (eBook ...**

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B. R. Frieden uses a single procedure, called extreme physical information, with the aim of deriving 'most known physics, from statistical mechanics and thermodynamics to quantum mechanics, the Einstein field equations and quantum gravity'. His method, which is based on Fisher information, is given a detailed exposition in this book, and we

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attempt to assess the extent to which he succeeds in his task.

## **Physics from Fisher information - ScienceDirect**

Robots can Understand Physics from  
Fisher Information. Robots can  
Understand Physics from Fisher  
Information. J. Michael Herrmann



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Institute for Perception, Action and Behaviour, School of Informatics, University of Edinburgh, and Edinburgh Centre for Robotics. B. Roy Frieden [1] presented an attempt to provide a new foundation for theoretical physics, which, at a first glance, appears quite attractive: Physics is what we know about of matter and its motion through

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## **Robots can Understand Physics from Fisher Information**

"Physics from Fisher Information" is a unification, indeed. The author derives the physical laws for such different fields as quantum mechanics, classical electromechanics, general relativity and

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statistical mechanics from the single powerful principle of Extreme Physical Information (EPI).

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It is found that the state  $a$  of the system must obey a principle of maximum Fisher information,  $I = I_{\max}$ . This is

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important because many physical laws have been derived, assuming as a working hypothesis that  $I = I_{\max}$ . These derivations include uses of the principle of Extreme physical information (EPI).

## **Principle of Maximum Fisher Information from Hardy's ...**

The latter three fields are usually

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regarded as exterior to physics, hence the name change of the book to “Science from Fisher Information.” That is, most generally, science follows from the use of Fisher information. Further applications are in ref. [1c] (2007).  
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