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Boolean Functions: Theory, Fundamentals and Engineering ...
Just as the applied theory (e. g. of the Laplace transform) is useful in control theory, renewal theory, queueing theory, etc. , the applied theory of Boolean functions (of indicator variables) can be useful in reliability theory, switching circuits theory, digital diagnostics and communications theory.

Boolean Functions | SpringerLink

Hi EngineeringStudents. I'm a current CS major taking computer architecture, and I love boolean algebra. I've been scouring google and libgen for resources such as "practical applications of boolean functions". I want to be able to think of a problem and create a function that represents the inputs and outputs.

Practical applications of boolean functions ...

Here f maps each length-n binary vector, or string, into a single binary value, or bit. Boolean functions arise in many areas of computer science and mathe- matics. Here are some examples: ⬝ In circuit design, a Boolean function may represent the desired behavior of a circuit with n inputs and one output.

ANALYSIS OF BOOLEAN FUNCTIONS - TAU

The workshop Boolean Functions and their Applications (BFA) is to provide a forum for researchers who are working on discrete functions and structures, particularly on Boolean functions, to exchange ideas and interests in open problems, and to further explore their applications in cryptography, error correcting codes and communications.

BFA 2020 – Boolean Functions Team @ UiB

Thomas W. Cusick, Pantelimon Stănică, in Cryptographic Boolean Functions and Applications, 2009. A Boolean function $f(x)$ in n variables is said to satisfy the Strict Avalanche Criterion (SAC) if changing any one of the n bits in the input x results in the output of the function being changed for exactly half of the 2^{n-1} vectors x with the changed input bit. The SAC is a useful property for a

Boolean function in cryptographic applications because satisfying the SAC means that a slight ...

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Boolean differential calculus has also found other engineering applications: e.g., it can be used as a unifying framework for the modeling and investigation of finite automata (cf. Automaton, finite) and of discrete event dynamical systems (cf. also Discrete event system), i.e., dynamical systems with discrete states and changes of states called events; such systems arise e.g. in digital network communication protocols.