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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

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Hi

EngineeringStudents.

I'm a current CS

major taking computer

architecture, and I

love boolean algebra.

I've been scouring

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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

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length- n binary vector, or string, into a single binary value, or bit.

Boolean functions arise in many areas of computer science and mathematics. Here are some examples: † In circuit design, a Boolean function may represent the desired behavior of a circuit with n inputs and one output.

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The workshop
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(BFA) is to provide a
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discrete functions and
structures, particularly
on Boolean functions,
to exchange ideas

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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
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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

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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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In recent decades, Boolean networks (BN) have emerged as an effective mathematical tool to model not only computational processes, but also several phenomena in science and engineering. For this reason, the

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development of the theory of such models has become a compelling need that has attracted the interest of many research groups in recent years.

Boolean Networks
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designed to be a
comprehensive

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of Boolean functions
in modern

cryptography. While
the vast majority of
research on

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Boolean functions has been achieved since the 1970s, when cryptography began to be widely used in everyday transactions, in particular banking, relevant material is scattered over hundreds of journal articles, conference proceedings, books, reports and notes,

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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

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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.

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