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Bent Functions - 1st Edition

In the mathematical field of combinatorics, a bent function is a special type of Boolean function; so called as they are as different as possible from all linear functions and from all affine functions. This makes the

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bent functions naturally hard to approximate. Bent functions were defined and named in the 1960s by Oscar Rothaus in research not published until 1976. They have been extensively studied for their applications in cryptography, but have also been applied to spread spectrum, coding t

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Bent function - Wikipedia

A Boolean function f is a bent function if and only if $\sigma f(v) = \pm 2^{n/2}$ for any $v \in E_n$ and n is even (see, e.g.,). Similarly to the proof of Proposition 12, one can easily get from the Sarkar...

Bent functions: results and applications. A survey ...

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It was proven by Kolomeec that if f is a bent function in n variables, then the number of bent functions at distance $2^{n/2}$ from it is not more than $2^{n/2} \prod_{i=1}^{n/2} (2^i + 1)$; this bound is achieved if and only if f is a quadratic bent function. Complete classification of all bent functions at distance $2^{n/2}$ from a quadratic bent function is given. Some

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new themes such as locally metrically nonequivalent bent functions are discussed.

Bent Function - an overview | ScienceDirect Topics

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In this survey, we revisit the Rothaus paper and the chapter of Dillon's thesis dedicated to bent functions, and we describe the main results obtained on these functions during these last 40 years. We also cover more briefly super-classes of Boolean functions, vectorial bent functions and bent functions in odd characteristic.

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Four decades of research on bent functions | SpringerLink

15.5 Bent Functions Over Quasi-Frobenius Local Rings; 15.6 Generalized Boolean Bent Functions (of Schmidt)
15.7 Bent Functions from a Finite Abelian Group into the Set of Complex Numbers on the Unit Circle; 15.8 Bent

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Functions from a Finite Abelian Group into a Finite Abelian Group; 15.9 Non-Abelian Bent Functions; 15.10 Vectorial G-Bent Functions

Bent functions: Results and Applications to Cryptography ...

Bent functions have a lot of applications in different areas. Some of them are

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theoretical, some of them are practical.
If you speak about theoretical
applications, we need to mention
Hadamard matrices.

Introduction and history - Bent functions: results and ...

Outline 1 Boolean functions, bentness
and related notions 2 Characterizations

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and properties of bent functions 3 Bent functions : applications 4 Equivalence, classification and enumeration of bent functions 5 Primary constructions of Boolean bent functions 6 Secondary constructions of Boolean bent functions 7 Bent functions in univariate and bivariate representations

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Bent functions and their connections to coding theory and ...

Okay, and here you can see the total number of bent functions in six variables. It's big enough. It's about 2^{32} in degree 32 and some rest. And this number was obtained by different authors in bent functions. And also it's interesting to mention one graph

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classification of quadratic bent functions in six variables.

Bent functions in small number of variables - Bent ...

These functions have a remarkable property distinguishes bent functions as a special mysterious class and leads to numerous applications of bent functions

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in combinatorics, coding theory, and cryptography. In this book a detailed overview of results in bent functions is given.

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