New Algorithm to Convert any Integer in TBNS

Abstract

Algebraic complexity of different Algorithms in Signal Processing and Cryptography leads to a major problem and Researchers are trying to develop new Algorithms to solve these problems. To enhance the speed of the existing Algorithms, different number system have been found for point multiplication in elliptic curve cryptography and coefficient multiplication in digital signal processing manly for digital filter design. Among the different number system, DBNS, DBC, HBTJSF, w-NAF are efficient. Recently, to increase the speed again, TBNS, SDTBNS have been developed. There are different method to convert any integer or fraction into TBNS and hence SDTBNS. Here a new algorithm will be discussed which increase the conversion efficiency.

References

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Keywords
DBC  DBNS  Digital Filter  DSP  ECC  HBTJSF  JSF  TBC  THJSF  TBNS  w-NAF