This paper proposes an efficient residue to binary converter on a new three-moduli set $(2^{(2n+1)}, 2^{(2n+1)}-1, 2^n)$ using the Mixed Radix Conversion. The proposed reverse converters are adder based and memoryless. In comparison with other moduli sets with similar dynamic range, the new schemes out-perform the existing schemes in terms of both hardware cost and propagation delay.

References


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**Index Terms**

Computer Science

Information Sciences
Keywords

Reverse Converter, Mixed Radix Conversion, Dynamic Range, Moduli Set, Residue Number System