

Review of: "Fast Addition for Multiple Inputs with Applications for a Simple and Linear Fast Adder/Multiplier And Data Structures"

Debapriya Basu Roy¹

¹ Indian Institute of Technology, Kanpur

Potential competing interests: No potential competing interests to declare.

In this paper, the authors have proposed a faster way of performing simple and multi-operand additions. Additionally, the authors have extended their approach to group theory and finite functions.

The reviewer finds the paper hard to follow for someone unfamiliar with the work's domain. The proposed methodology for the addition provided an exciting direction for performing addition. But, in the worst-case scenarios, its complexity becomes very similar to the ripple carry adder. Note that if we want to implement such additions in hardware, the complexity would be even higher as we need to perform the intersection operation, which requires a comparator. Therefore, the claim of fast addition does not hold true.