

# CLIFFORD ALGEBRAS AS UNIFIED LANGUAGE FOR IMAGE PROCESSING AND PATTERN RECOGNITION

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*How wonderful are the things the Lord does! All who are delighted with them  
want to understand them.*

—*Good News Bible, Psalm 111:2*

**Abstract** The main goal of the paper is to show that commutative hypercomplex algebras and Clifford algebras can be used to solve problems of multi-color image processing and pattern recognition in a natural and effective manner.

**Keywords:** Clifford algebra, color images, hyperspectral images, invariants, multi-color images, pattern recognition.