

Clifford (Geometric) Algebra for Practitioners

Dimitar Prodanov

Laboratory of Neurotechnology, PAML-LN, Institute for
Information and Communication Technologies, Bulgarian
Academy of Sciences, Sofia, Bulgaria

This practitioner-oriented overview presents Clifford (Geometric) Algebra as a unified, coordinate-free language for modeling, computation, and interpretation across applied mathematics and engineering. It emphasizes the use of the open source Computer Algebra system Maxima. The demonstration will present examples in differential geometry of curves, elasticity and Projective Geometric Algebra.