

A Novel Cordic Algorithm For Fixed Angle Rotation



A Novel Cordic Algorithm For

A novel trellis-based searching scheme for EEAS-based CORDIC algorithm Abstract: The CORDIC algorithm is a well-known iterative method for the computation of vector rotation. For applications that require forward rotation (or vector rotation) only, the extended elementary angle set (EEAS) Scheme provides a relaxed approach to speed up the operation of the CORDIC algorithm.

A novel trellis-based searching scheme for EEAS-based ...

A Novel Implementation of CORDIC Algorithm Using Backward Angle Recoding (BAR) Yu Hen Hu, Senior Member, IEEE, and Homer H.M. Chern Abstract-We propose a backward angle recoding (BAR) method to eliminate redundant CORDIC elementary rotations and hence expedite the CORDIC rotation computation.

A Novel Implementation of CORDIC Algorithm Using Backward ...

The CORDIC algorithm has a past history of more than fifty years since then it has been used in diverse fields. The CORDIC algorithm was initially proposed by J. E Volder [1] for basic elementary mathematical functions such as multiplication, division, and trigonometric functions.

A Novel Method for Computing Exponential Function Using ...

This paper presents a novel CORDIC algorithm and architecture for the rotation and vectoring mode in circular coordinate systems in which the directions of all micro-rotations are precomputed while maintaining a constant scale factor.

High-speed CORDIC algorithm and architecture for DSP ...

A novel rotational VLSI architecture based on extended elementary angle set CORDIC algorithm Abstract: The CORDIC algorithm is a well-known iterative method for the computation of vector rotation. For applications that require forward rotation (or vector rotation) only, the angle recoding (AR) technique provides a relaxed approach to speed up ...

A novel rotational VLSI architecture based on extended ...

A novel implementation of CORDIC algorithm using Backward Angle Recoding (BAR) Article (PDF Available) in IEEE Transactions on Computers 45(12):1370-1378 · December 1996 with 60 Reads

(PDF) A novel implementation of CORDIC algorithm using ...

An Introduction to the CORDIC Algorithm May 31, 2017 by Steve Arar CORDIC (coordinate rotation digital computer) is a hardware-efficient iterative method which uses rotations to calculate a wide range of elementary functions.

An Introduction to the CORDIC Algorithm - All About Circuits

A CORDIC uses only adders to compute the result, with the benefit that it can therefore be implemented using relatively basic hardware. Methods such as power series or table lookups usually need multiplications to be performed.

Digital Circuits/CORDIC - Wikibooks, open books for an ...

CORDIC Algorithm COordinate Rotation Dlgital Computer • Method for elementary function evaluation (e.g., $\sin(z)$, $\cos(z)$, $\tan^{-1}(y)$) • The modern CORDIC algorithm was first described in 1959 by Jack E. Volder. It was developed to replace the analog resolver in the B-58 bomber's navigation

CORDIC Algorithm COordinate Rotation Dlgital Computer

CORDIC (for COordinate Rotation Dlgital Computer), also known as Volder's algorithm, is a simple and efficient algorithm to calculate hyperbolic and trigonometric functions, typically converging with one digit (or bit) per iteration.

CORDIC - Wikipedia

Origins. The modern CORDIC algorithm was first described in 1959 by Jack E. Volder. It was

developed at the aerelectronics department of Convar to replace the analog resolver in the B-58 bomber's navigation computer. Although CORDIC is similar to mathematical techniques published by Henry Briggs as early as 1624,...

Trigonometry/For Enthusiasts/The CORDIC Algorithm ...

NOVEL ALGORITHM FOR 8 POINT DCT & IDCT IMPLEMENTATION BASED ON CORDIC 25 | Page
function over a finite domain, such as the DFT or DCT or a Fourier series, can be thought of as implicitly defining an extension of that function outside the domain. That is, once you write a function

NOVEL ALGORITHM FOR 8 POINT DCT & IDCT ... - goniv

In this paper, a novel DCT algorithm is proposed using matrix decomposition. The modified unfolded CORDIC based unified architecture for DCT and IDCT with highly modular is developed.

A novel CORDIC based unified architecture for DCT and IDCT ...

A Novel Method for Computing Exponential Function Using CORDIC Algorithm J. Sudhaa, M. C Hanumantharajub, V. Venkateswarulua, Jayalaxmi Hc, a* aDepartment of PG Studies,VTU Extension Center,UTL Technologies,Bangalore, India - 560022

A Novel Method for Computing Exponential Function Using ...

A Novel CORDIC algorithm for fixed angle rotation Vangapandla Shirisha MTech Student Department of ECE AnuBose Institute Of Technology(ABIT) Paloncha, Khammam, India M.Shoban Babu Assistant Professor Department of ECE AnuBose Institute Of Technology(ABIT) Paloncha, Khammam, India ABSTRACT: Rotation of vectors through fixed and

A Novel CORDIC algorithm for fixed angle rotation

A NOVEL, OPTIMIZED CORDIC CORE FOR PHASE CORRELATION MOTION ESTIMATION Andrea Molino, Fabrizio Vacca CERCOM CE Dipartimento di Elettronica Politecnico di Torino CE Corso Duca degli Abruzzi 24 CE 10129, Torino (ITALY)

A NOVEL, OPTIMIZED CORDIC CORE FOR PHASE CORRELATION ...

Cordic algorithm techniques: Design, analysis and synthesis [Navdeep Prashar] on Amazon.com. *FREE* shipping on qualifying offers. A Digital Wave Generator is designed using CORDIC Algorithm by Pipelining and Angle Recoding Techniques. Implementing the basic CORDIC hardware in many applications like GSM and SDR where high speed is the primary concern fails to meet the requirement.

Cordic algorithm techniques: Design,analysis and synthesis ...

CORDIC is an iterative algorithm for calculating trig functions including sine, cosine, magnitude and phase. It is particularly suited to hardware implementations because it does not require any multiplies. 1. Basics 1.1 What does "CORDIC" mean? COordinate Rotation Digtal Computer. ... Continued

CORDIC FAQ - dspGuru

Coordinate rotation digital computer (CORDIC) is an efficient algorithm for computations of trigonometric functions. Scaling-free-CORDIC is one of the famous CORDIC implementations with advantages of speed and area. In this paper, a novel direct digital frequency synthesizer (DDFS) based on scaling ...

Optimization and Implementation of Scaling-Free CORDIC ...

CORDIC v6.0 5 PG105 December 20, 2017 www.xilinx.com Chapter1 Overview The CORDIC core implements a generalized coordinate rotational digital computer (CORDIC) algorithm, initially developed by Volder [Ref1] to iteratively solve trigonometric equations, and later generalized by Walther [Ref2] to solve a broader range of equations,

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