

A Novel Cordic Rotation Method For Generalized Coordinate

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A novel CORDIC rotation method for generalized coordinate

October 26th, 1999 - A novel CORDIC rotation method for generalized coordinate systems Abstract CORDIC COordinate Rotation Digital Computer is an iterative algorithm for the calculation of the rotation of a two dimensional vector in linear circular or hyperbolic coordinate systems using only add and shift operations

A novel CORDIC rotation method for generalized coordinate

January 12th, 2019 - CORDIC COordinate Rotation Digital Computer is an iterative algorithm for the calculation of the rotation of a two dimensional vector in linear circular or hyperbolic coordinate systems using only add and shift operations This paper presents a novel algorithm and architecture for the rotation mode in circular and hyperbolic coordinate systems in which the directions of all micro rotations are pre computed while maintaining a constant scale factor Thus an examination of the sign of

A Novel CORDIC Rotation Method for Generalized Coordinate

January 2nd, 2019 - Abstract CORDIC COordinate Rotation DIgital Computer is an iterative algorithm for the calculation of the rotation of a two dimensional vector in linear circular or hyperbolic coordinate systems using only add and shift operations

A Novel CORDIC algorithm for fixed angle rotation

January 6th, 2019 - The rotation mode CORDIC algorithm to rotate a vector through an angle to obtain a rotated vector is given by 1 2 In case of fixed rotation could be pre

A Novel Implementation of CORDIC Algorithm Using Backward

December 15th, 2018 - A Novel Implementation of CORDIC Algorithm Using Backward Angle Recoding BAR Yu Hen Hu Senior Member $\hat{\alpha}$, $\neg E\hat{\alpha}$, \neg 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 We prove that for each of the linear circular and hyperbolic CORDIC rotations the use of BAR

CORDIC Algorithm COordinate Rotation DIGital Computer

January 10th, 2019 - CORDIC Algorithm COordinate Rotation DIGital Computer $\hat{\alpha}$ Method for elementary function evaluation e g $\sin z$ $\cos z$ $\tan 1 y$ $\hat{\alpha}$ The modern CORDIC algorithm was first described in

An Angle Recoding Method for CORDIC Algorithm

January 15th, 2019 - The coordinate rotation digital computer CORDIC an iterative arithmetic algorithm for computing generalized vector rotations without performing multiplications is discussed

The CORDIC Method Politehnica University of TimiÈ™oara

January 7th, 2019 - CORDIC method The CORDIC method approximates \cos and \sin by rotating a unity vector initially positioned along abscissa Rotation of the initial vector by angle brings the vector in its

An Angle Recording Method for CORDIC Algorithm Implementation

December 13th, 2018 - The coordinate rotation digital computer CORDIC an iterative arithmetic algorithm for computing generalized vector rotations without performing multiplications is discussed For applications where the angle of rotation is known in advance a method

The Differential CORDIC Algorithm Constant Scale Factor

December 27th, 2018 - A Novel CORDIC Rotation Method for Generalized Coordinate Systems CORDIC COordinate Rotation DIGital Computer is an iterative algorithm for the calculation of the rotation of a two dimensional vector in linear circular or hyperbolic coordinate systems using only add and shift operations

A 16 BIT CORDIC ROTATOR FOR HIGH SPEED WIRELESS LAN

January 4th, 2019 - In this paper we describe a novel CORDIC rotator that is used for the synchronizer unit in a project that aims at the implementation of single chip modem for IEEE 802.11a standard 7 Though according to the specification of the project we design a 16 bit CORDIC processor that can operate in the forward operation mode only the method can be generalized for any arbitrary wordlength In

Implementation of Efficiency CORDIC Algorithm for Sine

January 8th, 2019 - A generalized micro rotation selection technique based on high speed most significant 1 detection obviates the complex search algorithms for identifying the micro rotations This algorithm is redefined as the elementary angles for reducing the number of CORDIC iterations Compared to the existing recursive architectures the proposed one has 17 lower slice delay product on Xilinx Spartan

References CORDIC and Signal Processing

January 4th, 2019 - 00831929 pdf Martin Kuhlmann Keshab K Parhi A Novel
CORDIC Rotation Method for Generalized Coordinate Systems IEEE 1999
1361â€"1367 00867214 pdf Tso Bing Juang Shen Fu Hsiao Low Power and Fast
CORDIC

CORDIC Wikipedia

January 14th, 2019 - CORDIC for COordinate Rotation DIgital 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

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