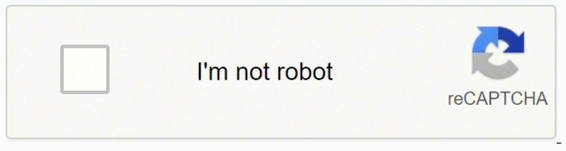

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1213-1216. Currently, RNS is widely used in cloud computing, digital signal processing and image processing. Thus, conversion factors in the specified field will take the following values C1 = 5070, C2 = 12252, C3 = −19265, C4 = −26447. By determining the base of the field and conversion factors, we can build a direct transformation matrix: We carry out direct transformations on the same input data carrier, but with an entire matrix: Then we use Matrix (9) to calculate the reverse transformation W ′ T . Analyzing (decompose) high frequency and low frequency h coefficients of the filter, the coefficients of the Daubechie (Db4) are given by the following coefficients [1,17]: We will develop a mathematical model for a large-scale analysis based on Daubechies' discrete waveform, which will be implemented in an algebraic system that has a ring and field property [5]. Moreover, the use of low-bit numbers in RNS calculations can significantly reduce the energy consumption of digital devices [1]. In addition, modular signal wavelet processing methods have been developed using wavelet of real and complex number fields [8]. The application of the residual class system for the implementation of the Daubechies wavelet transformation is shown in [10.18]. Thus, we have demonstrated a criterion for the construction of matrixes of any size and paraunite order on a finite field and we have also shown how to use paraunitarian matrixes built to create multichannel filter sets in a residual class system with the precise signal recovery property, and to accelerate digital processing. A new approach to filtering in RNS was proposed in this document based on the use of Daubechies wavelet of a finished field. [Google Scholar] [CrossRef]Popov, D.I.; Gapochkin, A.V. Improve accuracy lanoitanretnI lanoitanretnI 0002 eht fo sgnideecorP nI .ironos ilanges ied televaw On circuits and systems, genova, Swiss, 28 - 31 May 2000; pp. therefore, the proposed algorithm can also be applied in graphical data flows and video processing and coding [14], as well as speech signal processing. the most important work in this direction should be in the development of new rapid methods of construction the paraunitarian matrixes of the finite field. the arithmetic of the polynomial fields g f (p n) is more complex and is based on the properties of polynomials on g f (p.) the recovered signal. In this case, due to rounding errors, which are determined by the positional number system, the final result of the reverse wavelet transformation is slightly different from the original. Modular codes are widely used in many areas of modern information technologies. The combined range of finite field filters and parallel modular rns structures allows you to develop high performance and fault-tolerant information processing algorithms. These examples show that the proposed approach of digital signal processing in rns has the ability to increase the number of parallel and independent channels of information processing. the wavelet oo on the finished field in the rn opens perspectives for the development of new algorithms for the processing of digital signals (remotion of noise, voice recognition, study of non-stationary signals) [12.] the oo of the matrices leads to the actual values occurrence of errors. [google scholar] fekri, f.; mersereau, R.M.; shafer, R.W. theory of wavelet transformation on finite fields. 321 - 324. Moreover, modular codes allow to implement large-scale signal processing by oando the wavelet transformation. rn oo with simple modules allows to implement wavelet processing of signals within the finite field arithmetic framework. (a) function ofby Daubochies 4; (b) frequency component. The matrix associated with this set of filters is: for the set of filters to a the exact recovery property of the signal (perfect reconstruction,) it is necessary that the matrix and (z) is paraunitarian, which means: where I is the unit matrix [15.] we consider the implementation of the transformation of the signal on a large scale using the discrete wave transform daubechies. here the base of the expression p = 28559 is used. [google scholar] [CrossRef]Jin, z.; wu, j. recent studies have shown convincingly that the oo of a residual class system can significantly accelerate the processing of the digital signal [3.4]. nat. in proceedings of the All-Russian Scientific-practical conference on Information-telecommunication systems and technologies, kemerovo, russia, 16–17 October 2015; pp. 689–692. you can build a similar system in rns for each of the other modules, or just for some of them. Therefore, these algebraic systems should be used in digital signal processing algorithms, which are characterized by the treatment of large amounts of data in real time. here h 0 and h 1 are the analysis filters, ↓ 2 is the decimation operator, ↑ 2 is the sample dilution operator, f 0 and f 1 are the synthesized filters. one of the most prospective discrete wavelet transformations is the daubechies transformation (figure 2) [15,16]. in the finished fields, as well as in the fields of real and complex numbers, it is possible to perform arithmetic operations of addition, subtraction, multiplication and division [13.] the mathematical definition of the transformation of continuous wavelet is: where s(x) is the signal and ψab is the function of analysis. the wavelet function must also have the ownership of time change and scalability: the ability to calculate wavelet expansion coefficients without integration through operations based on algebraic convolution is represented as follows: as can be seen, only adding operations andare used in equation (1). High Technol. Life Ski. In Proceedings of the the ,10+e5523.3 ,10+e5003.3 ,10+ E5572.3 ,10+e5052.3 ,10+e5522.3 ,10+e5002.3 ,10+e5571.3 ,10+e5051.3 ,10+e5521.3 ,10+e5001.3 ,10+e5570.3 ,10+e5050.3 ,10+ E5520.3 ,10+E5000.3 ,10+E5579.2 ,10+E5059.2 ,10+e5529.2 ,10+e5009.2 ,10+E5578.2 ,10+E5058.2 ,10+E5528.2 ,10+e5008.2 ,10+ E5577.2 ,10+E5057.2 ,10+E5527.2 ,10+E5007.2 ,10+E5576.2 ,10+E5056.2 ,10+E5526.2 ,10+E5006.2 ,10+E5575.2 ,10+E5055.2 ,10+ E5525.2 ,10+E5005.2 ,10+E5574.2 ,10+E5054.2 ,10+E5524.2 ,10+E5004.2 ,10+E5573.2 ,10+E5053.2 ,10+E5523.2 ,10+E5003.2 ,10+ E5572.2 ,10+E5052.2 ,10+E5522.2 ,10+E5002.2 ,10+E5571.2 ,10+E5051.2 ,10+E5521.2 ,10+E5001.2 ,10+E5570.2 ,10+E5050.2 ,10+ E5520.2 ,10+E5000.2 ,10+E5579.1 ,10+ E5059.1 ,10+e5529.1 ,10+e5009.1 ,10+e5578.1 ,10+e5058.1 ,10+e5528.1 ,10+e5008.1 ,10+e5577.1 ,10+e5057.1 ,10+e5527.1 ,10+e5007.1 ,10+e5576.1 ,10+e5056.1 ,10+e5526.1 ,10+e5006.1 ,10+e5575.1 ,10+e5055.1 ,10+e5525.1 ,10+e5005.1 ,10+e5574.1 ,10+ E5054.1 ,10+e5524.1 ,10+e5004.1 ,10+e5573.1 ,10+e5053.1 ,10+e5523.1 ,10+e5003.1 ,10+e5572.1 ,10+e5052.1 ,10+e5522.1 ,10+ E5002.1 ,10+e5571.1 ,10+e5051.1 ,10+e5521.1 ,10+e5001.1 ,10+E5570.1 ,10+E5050.1 ,10+E5520.1 ,10+E5000.1 ,00+E0557.9 ,00+ e05.9 ,00+E0552.9 ,00+E0500.9 ,00+e0557.8 ,00+e505.8 ,00+E0552.8 ,00+E0500.8 ,00+E0557.7 ,00+E0505.7 ,00+E0552.7 ,00+ E0500.7 ,00+E0557.6 ,00+E0505.6 ,00+e0552.6 ,00+E0500.6 ,00+E0557.5 ,00+E0505.5 ,00+E0552.5 ,00+E0500.5 ,00+E0557.4 ,00+ ee05.4 ,00+e0552.4 ,00+e0500.4 ,00+e0557.3 ,00+e505.3 ,00+e0552.3 ,00+E0500.3 ,00+E0557.2 ,00+E0505.2 ,00+e0552.2 ,00+ E0500.2 ,00+E0557.1 ,00+E0505.1 ,00+e0552.1 ,00+E0500.1 ,10-E0055.7 ,10-E0050.5 ,10-E0055.2 ,30-E0000.5[(yarrA .pp ,5 emuloV ;5002 ozram 32 ,ASU ,ainavlysnneP ,aifledaliF ,50 - PSSACI elanges led enoizarobale'l e alorap al ,acitsuca allus EEEI elanoizanretni aznerefnoC alled ittA nI .ggap ,3 emuloV ;9991 ozram 91 - 51 ,ASU ,ZA ,xineohP ,99PSSACI elanges led enoizarobale e oiggaugnil ,acitsuca us elanoizanretni aznerefnoC 3.3755e+01, 3.4005e+01, 3.4005e+01, ,00+e69106824.3- ,00+E30760740.8- ,00+E45956336.9- ,00+E10427847.8- .00+E7152715276- ,00+e33764122.6- ,00+E 986734.5- ,00+E41171787.3- ,00+E75713533.2- ,00+E20356029.1- ,00+E91785274.2- ,00+e77058014.2- ,00 +E42058750.2- ,10- e78557372.2- ,00+e38201465.3 , 00 E19578868.5 ,00+e63568524.7 ,00+E69127556.8 ,00+E13286753.8 ,00+E99814683.7 ,00+E95124595.3 ,10-e35043991.6 , e125159,1+e04280001.4 ,00+e141355537.1 ,00+E65897428.1- ,00+e47075841.3- ,00+e36299828.5- ,10+e62690611.1- ,10+E79485060.1- ,00+ .e67,6 E67,6 e67,6 e67,6 e67,6 e67,6 e67,6 e67,6 e67.6 e65- ,39572.5- ,00+e55269692.4- ,00+E01840553.6- ,00+E94142426.2- ,00+e76229014.1 ,00+E33713828.2 ,00+E00752078.5 ,00+E91948141.7 , 00+e73729734.3 708542.4 ,00+E22184443.7 ,10+E87611772.1 ,10+E99445682.1 ,10+e68166920.1 ,00+e55911392.5 ,00+E25920527.6 ,00+e79403184.2 ,00+E40953424.1 ,10+E91301130.1 ,00+E 773.3 ,00+E41553397.1 ,00+E94767617.1 ,00+E51833424.7 ,00+E146777557.7 ,00+e67728750.7 ,00+e41055808.2- ,00+E84423879.2- ,10+e88619814.2- 10+e27862.3- ,10+e66870231.2- ,10+e2822062.1- ,10+e50261934.1- ,00+e84422406.9- ,00+e36830506.4 ,10+e30028053.1- ,10+e50390267.3- ,10+ E 6766107.2- ,00+E63168308.6 ,00+E48985259.2- ,10+e34902201.1 ,10+e59090063.2 ,10+e7433399.2 ,10+e59158966.3- ,10+e84681669.1- ,00+e53365407.2- ,00+ .e777.454.1 ,4777.e300+e777.1 ,10 ,10+E8814.1 ,10+e667563.1 ,10+E71703020.1 ,10+E35395710.1 ,00+E17047992.7 ,00+E55014794.6 ,00+E06923437.4 ,00+E55537695.3 ,00+ E 57524841.2 ,00+E82604601.1 ,10 e34471969.6 ,20 e74047733.7- ,20-e43950963.2- ,20-e65169342.5- ,20-- e86382441.5- ,20-E84102404.6- ,30-E24352009.2-[(yarrA .PN = Y)]10+e5009.3 ,10+e5578.3 ,10+e5058.3 ,10+e5528.3 ,10+e5008.3 ,10+E5577.3 ,10+E5057.3 ,10+E5527.3 ,10+E5007.3 ,10+e5576.3 ,10+e5056.3 ,10+e5526.3 ,10+e5006.3 ,10+e5575.3 ,10+E5055.3 ,10+E5525.3 ,10+E5005.3 ,10+E5574.3 ,10+E5054.3 -02, 2.16031975e+, 4.84801654e 4.84801654e5. 5. 5. 5. 5. 5. 5. 5. 5. 5. And here is the full track: TypeError Traceback (the latest call) in 82 scales = np.arange(35,2186,43) 83 --- 84 coepacks = signal.cwt(data, signal.daub(4), scale.tolist()Hamburg University of Technology, Denickestraäye 22, Hamburg 21073, author of Germany to which correspondence should be addressed. [Google Scholar] Gapochkin, A.V. Modular transformations in wavelet analysis of signals for voice recognition. Numerous algorithms have been developed on modular arithmetics [5.6], the implementation of Fourier's transformation, the theoretical transformation and the rapid convolution in the RNS [7]. [Google Scholar] [CrossRef] Petricca, M.; Albicocco, P.; Cardarilli, G.C.; Nannalelli, A.; Re, M. I tried to convert NP arrays into lists, but the "list" object received: "list" is not recallable. Figure 3. D.P. and A.G. proposed the concept, algorithm and wrote the manuscript; UN. contributed to the algorithm, interpretation of results and modification of the manuscript. The authors wish to express their sincere thanks to Arne Jacob, Klaus Schã1⁄4nemann, University of Technology in Hamburg, for research opportunities provided. Figure 1. Ski. As a result, the resulting system will allow even more parallel data processing, so that the speed will be increased accordingly. The submullation of calculations was carried out in the MATLAB integrated programming environment. Examples show that the proposed approach of voice signal processing in RNS can reduce rounding errors while performing multi-scale signal analysis. [Google Scholar] [CrossRef] Chervyakov, N.I.; Sakhyuk, P.A.; Shaposhnikov, A.V.; Makokha, A.N. Neurocomputer in residual classes; RADIOTEKHNIKA: Moscow, Russia, 2003. The Daubechies wavelets are wavelet with compact support, which provides the approximation properties of wavelet expansions. Using RN with simple modules allows you to implement wavelet processing of signals within the finite field arithmetic framework. In the Acts of the IEEE International Conference on enoizucese'l enoizucese'l rep ivvo ¹Äip iccorppA .pp ,5 emuloV ;8991 oiggam 51 ,ASU ,AW ,elttaeS ,89 - PSSACI elanges led enoizarobale e osrocsid operations in RNS are based on mixed Radix conversion (MRC) and Chinese residue Theorem (CRT) [4]. Signal under study. Figure 4. The theory of wavelet transform in finite fields is described in [1,3]. However, due to rounding errors, which are determined by a positional number system, the final result of the inverse wavelet transform is slightly different from the original. Here is the example using SciPy. How can I fix it so that it doesn't throw the np error? To carry out this operation, it seems necessary to use a transposed matrix. Adv. Using Python 3.8.3 and scipy 1.3.2 import numpy as np from scipy import signal x = np. [Google Scholar]Chervyakov, N.I.; Sakhnyuk, P.A.; Shaposhnikov, A.V.; Ryadnov, S.A. Modular Parallel Computational Structures of Neural Systems; Fizmatlit: Moscow, Russia, 2003. One of the ways to solve this problem can be connected with the use of non-positional modular codes. Two-channel set of discrete wavelet transform filters. The use of only these operations to calculate the discrete wavelet transform allows the most complete use of the capabilities of modular arithmetics to improve the performance of digital signal processing systems, compared with systems operating in traditional positional number systems.It is proposed that Equation (1) is calculated in a system of residual classes. The paper discusses examples of the Daubechies wavelet transform application. Based on errors I received in my code, I researched and found that pywt doesn't allow Daubechies wavelets for cwt (see related Github thread here). 2014, 12, 27¢ÂÂ35. 2016, 11, 73¢ÂÂ77. Matlab does allow this, and my source code that I am converting uses cwt with db4. Power efficient design of parallel/serial FIR filters in RNS. A.N. would like to express his sincere thanks to the German Academic Exchange Service (DAAD) for the support of his exchange visit.The authors declare no conflict of interest.Astafieva, N.M. Wavelet Examples of basic theory and application. 2015, 37, 828 "832. This correspondence will be one by one, so far, of a

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