Nikolay N Nagornov

List of Publications by Year
in descending order

17	449	1307594 7	1281871 11
papers	citations	h-index	g-index

19	19	19	344
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RNS-Based FPGA Accelerators for High-Quality 3D Medical Image Wavelet Processing Using Scaled Filter Coefficients. IEEE Access, 2022, 10, 19215-19231.	4.2	5
2	System for the Recognizing of Pigmented Skin Lesions with Fusion and Analysis of Heterogeneous Data Based on a Multimodal Neural Network. Cancers, 2022, 14, 1819.	3.7	7
3	Comparative Analysis of Various Methods to Circuit Design for DWT with CDF 9/7 Wavelet. , 2022, , .		0
4	On the Computational Complexity of 2D Filtering by Winograd Method. , 2022, , .		4
5	Digital Filter Architecture With Calculations in the Residue Number System by Winograd Method F (2) Tj ETQq1 1 0.784314 rgBT /Ov	4.2	3
6	High-Performance Hardware 3D Medical Imaging using Wavelets in the Residue Number System. , 2020, , .		5
7	High-Performance Digital Filtering on Truncated Multiply-Accumulate Units in the Residue Number System. IEEE Access, 2020, 8, 209181-209190.	4.2	14
8	A Method of Increasing Digital Filter Performance Based on Truncated Multiply-Accumulate Units. Applied Sciences (Switzerland), 2020, 10, 9052.	2.5	8
9	Analysis of the Quantization Noise in Discrete Wavelet Transform Filters for 3D Medical Imaging. Applied Sciences (Switzerland), 2020, 10, 1223.	2.5	28
10	Low-Bit Hardware Implementation of DWT for 3D Medical Images Processing. , 2020, , .		5
11	Application of the residue number system to reduce hardware costs of the convolutional neural network implementation. Mathematics and Computers in Simulation, 2020, 177, 232-243.	4.4	309
12	Residue Number System-Based Solution for Reducing the Hardware Cost of a Convolutional Neural Network. Neurocomputing, 2020, 407, 439-453.	5.9	13
13	Implementation of Smoothing Image Filtering in the Residue Number System. , 2019, , .		3
14	Analysis of the Quantization Noise of Linear Time-Invariant Filters for Image Processing. , 2019, , .		3
15	High-Quality 3D Medical Imaging by Wavelet Filters with Reduced Coefficients Bit-Width. , 2019, , .		0
16	Quantization Noise of Multilevel Discrete Wavelet Transform Filters in Image Processing. Optoelectronics, Instrumentation and Data Processing, 2018, 54, 608-616.	0.6	7
17	Analysis of the Quantization Noise in Discrete Wavelet Transform Filters for Image Processing. Electronics (Switzerland), 2018, 7, 135.	3.1	27