Levent Aksoy

List of Publications by Year in descending order

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1040056 940533 50 472 9 16 citations h-index g-index papers 51 51 51 150 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Technology Development and Modeling of Switching Lattices Using Square and H Shaped Four-Terminal Switches. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 351-360.	4.6	O
2	Hardware Obfuscation of Digital FIR Filters. , 2022, , .		1
3	Multiplierless Design of Very Large Constant Multiplications in Cryptography. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4503-4507.	3.0	1
4	High-level Intellectual Property Obfuscation via Decoy Constants. , 2021, , .		3
5	Realization of Logic Functions Using Switching Lattices Under a Delay Constraint. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 2036-2048.	2.7	O
6	Novel Methods for Efficient Realization of Logic Functions Using Switching Lattices. IEEE Transactions on Computers, 2020, 69, 427-440.	3.4	4
7	A Novel Method for the Realization of Complex Logic Functions using Switching Lattices. , 2020, , .		2
8	Efficient Hardware Implementation of Artificial Neural Networks Using Approximate Multiply-Accumulate Blocks. , 2020, , .		5
9	Efficient Time-Multiplexed Realization of Feedforward Artificial Neural Networks. , 2020, , .		4
10	CMOS Implementation of Switching Lattices. , 2020, , .		3
11	A Satisfiability-Based Approximate Algorithm for Logic Synthesis Using Switching Lattices. , 2019, , .		7
12	Realization of Four-Terminal Switching Lattices: Technology Development and Circuit Modeling. , 2019, , .		8
13	A novel method for the approximation of multiplierless constant matrix vector multiplication. Eurasip Journal on Embedded Systems, 2016, 2016, .	1.2	6
14	A Novel Method for the Approximation of Multiplierless Constant Matrix Vector Multiplication. , 2015, , .		2
15	Approximation of multiple constant multiplications using minimum look-up tables on FPGA. , 2015, , .		3
16	Exact and Approximate Algorithms for the Filter Design Optimization Problem. IEEE Transactions on Signal Processing, 2015, 63, 142-154.	5. 3	12
17	Multiplierless Design of Folded DSP Blocks. ACM Transactions on Design Automation of Electronic Systems, 2014, 20, 1-24.	2.6	6
18	ECHO: A novel method for the multiplierless design of constant array vector multiplication. , 2014, , .		3

#	Article	IF	CITATIONS
19	Efficient design of FIR filters using hybrid multiple constant multiplications on FPGA. , 2014, , .		5
20	A Tutorial on Multiplierless Design of FIR Filters: Algorithms and Architectures. Circuits, Systems, and Signal Processing, 2014, 33, 1689-1719.	2.0	32
21	Optimization of design complexity in time-multiplexed constant multiplications. , 2014, , .		1
22	Towards the least complex time-multiplexed constant multiplication. , 2013, , .		0
23	Exploration of tradeoffs in the design of integer cosine transforms for image compression. , 2013, , .		0
24	Design of Digit-Serial FIR Filters: Algorithms, Architectures, and a CAD Tool. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 498-511.	3.1	23
25	SIREN., 2013,,.		1
26	Optimization Algorithms for the Multiplierless Realization of Linear Transforms. ACM Transactions on Design Automation of Electronic Systems, 2012, 17, 1-27.	2.6	15
27	Multiple tunable constant multiplications. , 2012, , .		6
28	Design of low-complexity digital finite impulse response filters on FPGAs., 2012,,.		6
29	High-level algorithms for the optimization of gate-level area in digit-serial multiple constant multiplications. The Integration VLSI Journal, 2012, 45, 294-306.	2.1	4
30	Multiplierless Design of Linear DSP Transforms. International Federation for Information Processing, 2012, , 73-93.	0.4	11
31	A hybrid algorithm for the optimization of area and delay in linear DSP transforms. , 2011, , .		1
32	Optimization of area in digit-serial Multiple Constant Multiplications at gate-level. , 2011, , .		10
33	Design of low-power multiple constant multiplications using low-complexity minimum depth operations. , $2011, \ldots$		7
34	Finding the optimal tradeoff between area and delay in multiple constant multiplications. Microprocessors and Microsystems, 2011, 35, 729-741.	2.8	16
35	Efficient shift-adds design of digit-serial multiple constant multiplications. , 2011, , .		8
36	Optimization of gate-level area in high throughput Multiple Constant Multiplications. , 2011, , .		3

#	Article	IF	CITATIONS
37	Search algorithms for the multiple constant multiplications problem: Exact and approximate. Microprocessors and Microsystems, 2010, 34, 151-162.	2.8	75
38	Design of low-complexity and high-speed digital Finite Impulse Response filters. , 2010, , .		1
39	Radix-2 Decimation in Time (DIT) FFT implementation based on a Matrix-Multiple Constant multiplication approach. , $2010, , .$		5
40	Optimization of Area and Delay at Gate-Level in Multiple Constant Multiplications. , 2010, , .		9
41	Design of low complexity digital FIR filters. , 2009, , .		O
42	Exact and Approximate Algorithms for the Optimization of Area and Delay in Multiple Constant Multiplications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 1013-1026.	2.7	92
43	An Exact Breadth-First Search Algorithm for the Multiple Constant Multiplications Problem. , 2008, , .		28
44	Area optimization algorithms in high-speed digital FIR filter synthesis. , 2008, , .		6
45	An approximate algorithm for the multiple constant multiplications problem. , 2008, , .		4
46	Minimum number of operations under a general number representation for digital filter synthesis. , 2007, , .		7
47	Effect of Number Representation on the Achievable Minimum Number of Operations in Multiple Constant Multiplications. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	8
48	Optimization of Area in Digital FIR Filters using Gate-Level Metrics. Proceedings - Design Automation Conference, 2007, , .	0.0	11
49	ASSUMEs: Heuristic Algorithms for Optimization of Area and Delay in Digital Filter Synthesis. , 2006, , .		1
50	Optimization of area under a delay constraint in digital filter synthesis using SAT-based integer linear programming. , 2006, , .		2