## Levent Aksoy

## List of Publications by Year in descending order

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Exact and Approximate Algorithms for the Optimization of Area and Delay in Multiple Constant
1 Multiplications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, ..... 2.7 ..... 92
27, 1013-1026.
2 Search algorithms for the multiple constant multiplications problem: Exact and approximate. ..... 2.8 ..... 75 Microprocessors and Microsystems, 2010, 34, 151-162.
and Signal Processing, 2014, 33, 1689-1719.
.
$6 \quad$ Finding the optimal tradeoff between area and delay in multiple constant multiplications.
7 Optimization Algorithms for the Multiplierless Realization of Linear Transforms. ACM Transactions$2.6 \quad 15$
on Design Automation of Electronic Systems, 2012, 17, 1-27.5.312
Exact and Approximate Algorithms for the Filter Design Optimization Problem. IEEE Transactions on $8 \quad$ Exact and Approximate Algorithms for
9 Optimization of Area in Digital FIR Filters using Gate-Level Metrics. Proceedings - Design Automation
Conference, 2007, , .Multiplierless Design of Linear DSP Transforms. International Federation for Information Processing,2012, , 73-93.
11 Optimization of area in digit-serial Multiple Constant Multiplications at gate-level. , 2011, , .10
12 Optimization of Area and Delay at Gate-Level in Multiple Constant Multiplications. , 2010, , . ..... 9
Effect of Number Representation on the Achievable Minimum Number of Operations in Multiple
13 Constant Multiplications. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop 0.0 ..... 8
on, 2007, . .
8
14 Efficient shift-adds design of digit-serial multiple constant multiplications. , 2011, , .
Realization of Four-Terminal Switching Lattices: Technology Development and Circuit Modeling. , 2019,8

$$
\begin{aligned}
& \text { Design of low-power multiple constant multiplications using low-complexity minimum depth } \\
& \text { operations. , 2011, , . }
\end{aligned}
$$7

Eurasip Journal on Embedded Systems, 2016, 2016, .

38 A Novel Method for the Realization of Complex Logic Functions using Switching Lattices. , 2020, , .
2

39 ASSUMEs: Heuristic Algorithms for Optimization of Area and Delay in Digital Filter Synthesis. , 2006, , . 1

40 Design of low-complexity and high-speed digital Finite Impulse Response filters. , 2010, , .
1

41 A hybrid algorithm for the optimization of area and delay in linear DSP transforms. , 2011, , .
1

42 SIREN. , 2013, , .
1

43 Optimization of design complexity in time-multiplexed constant multiplications. , 2014, , .

44 Hardware Obfuscation of Digital FIR Filters. , 2022, , .

46 Design of low complexity digital FIR filters. , 2009, , .

48 Exploration of tradeoffs in the design of integer cosine transforms for image compression. , 2013, , .

