

GROUP THEORETIC APPROACH TO THE OPTIMIZATION OF SPECTRAL REPRESENTATIONS FOR CIRCUIT SYNTHESIS

Abstract of plenary report¹

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Abstract: Spectral representations are a suitable way to represent discrete signals that are inputs and outputs of discrete systems. Therefore, they can be used as a starting point in digital circuit design. In this paper, we discuss an approach to the optimization of spectral representations to reduce the circuit complexity.

Key words: Spectra representations, Circuit synthesis, Group representations, Fourier expressions.

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¹ The full paper is published in a special issue SP2 (vol. 11), 2019 of the International Journal on Information Technologies and Security, ISSN 1313-8251 (<http://ijits-bg.com>), indexed by Web of Science