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APPLICATION OF EVOLUTIONARY COMPUTATIONS FOR THE CONTROL OF PARAMETRIC RELIABILITY OF ANALOG TECHNICAL DEVICES AND SYSTEMS

Considered are some computational aspects of evolutionary computations implementation as applied to the problems of optimal parametric synthesis. Search schemes of the maximum of algorithmically specified objective functions with nonlinear parameter restrictions functions are developed on the basis of hybrid algorithms. Search optimization algorithms are proposed, which allow paralleling of calculations.

Keywords: optimal parametric synthesis, evolutionary computations, search optimization, computation paralleling, hybrid algorithm, conditions of uncertainty.

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