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INSTITUTE FOR AUTOMATION AND CONTROL
PROCESSES OF FAR-EASTERN BRANCH
OF RUSSIAN ACADEMY OF SCIENCES IS 35. 2

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The problem of synthesizing analog engineering systems with deterministic structure and random parameters is considered. The extended concept of parametric synthesis is introduced that results in a parameters control strategy ensuring desirable or optimum reliability characteristics of the synthesized system. Several algorithms for multivariate analysis and optimization using parallel and distributed processing techniques are discussed.

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