

STATISTICAL AND NEURAL NETWORKS ALGORITHMS OF RESTORATION OF DIGITAL IMAGES IN CONDITIONS OF APPLICATIVE DISTORTIONS

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The synthesis and the analysis of optimum in a class of linear algorithm of a filtration (restoration) and neural networks algorithm of restoration of the digital images influenced by additive and applicative handicapes are made. The model of formation of applicative handicapes based on Poisson stream for the description of occurrence of local areas of covering is offered. Dependence of mistakes of restoration on intensity of occurrence of local areas of covering in problems of processing of Gaussian images is received. The advantage of the neural networks approach in the research of robustness of the synthesized algorithms is shown.