ANALYSIS OF SIMULATION DIGITAL IMAGES ALGORITHM'S CHARACTERISTICS BASED ON MODELS OF MARKOV INDIVISIBLE RANDOM FIELD

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The autoregressive model of Markov's indivisible Gaussian random field and algorithm of digital images texture simulation are examined. The recurrent equations are obtained for determining the values of the conditional and unconditional moments of the values of a random field distribution in the reference grid elements. Finally, the conditions of stability and likeness conditions of the results obtained by simulating random fields in a computer are discussed. Results are compared with data resulting from real digital image processing.