

Method for homomorphic identification of signals relates to measuring engineering and can be used for homomorphic identification, selection and identification of sources of language, hydro-acoustic, bio-medical, seismic and ultrasonic signals. Homomorphic identification of signals is carried out through implementation of sequence of operations: low frequency filtration of signals in band of frequencies of analysis; separation of signals to segments of analysis with same duration agreed with correlation interval of signal; formation of discrete time counts of instantaneous density of power of signal through analog-digital transformation with frequency of discretization in time agreed with frequency band of analysis of spectrum and quantization separation at level agreed with dynamical amplitude range; logarithmic transformation of values of instantaneous density of power of signal; formation of discrete counts of current homomorphic function through discrete Fourier transformation; formation of dependences of quantiles of absolute values of counts of homomorphic functions for each frequency of spectrum of signal; comparison of formed relationships by known criteria of coordination to respective dependences of quantiles of homomorphic functions of standard realizations of homomorphic functions of data base. Such method provides increase of reliability and effectiveness of identification of signals.