

AbstractMETHOD AND APPARATUS FOR DETERMINING BASIS FUNCTIONS FOR DATA
OBJECTS

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Sets of common basis functions, such as common ICA basis functions, are generated for analysing and representing all images in an image database. Each set of common basis functions is used to cover a subset of images in the database. The basis function sets are distinguished from each other in the properties of ICA features' location,

10 orientation and frequency. The number of basis function sets is controlled by some parameters, such as confidence, to limit at a small and reasonable value.

Figure 9



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