

ABSTRACT OF THE DISCLOSURE

5 An image processing system, comprising: a camera
for taking a picture image of an object and producing a
corresponding picture image signal; a binary
discrimination circuit for converting the picture image
signal into a binary signal; a memory unit for storing
the binary signal; and feature extracting circuit for
10 extracting a geometric feature of the picture image by
processing the binary signal. Preferably, the feature
extracting circuit comprises: an edge detection
circuit having a hardware structure; and an arithmetic
processing unit for computing, through a software
15 process, geometric features from a graphic image
included in the picture image of the object according
to data on edge addresses. Thus, the processing speed
is increased and the size and cost of the system is
reduced by carrying out edge detection and address data
20 collection requiring a large amount of processing work
by means of a dedicated hardware circuit and carrying
out arithmetic and other processes by means of
software. Further, since the software of its
arithmetic unit can be easily modified, the versatility
25 of the processing work can be improved, and the range
of application of the system can be broadened.

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