VISUAL INSPECTION FOR A QUALITY PRODUCTION

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ABSTRACT

A Spanish University has developed a product inspection technology through artificial vision that can be used to check quality in production lines, and consequently, to automatically classify products according to their quality and characteristics. It is fully developed; laboratory and field tested, and ready to be applied under particular specifications. The researchers are looking for partners to joint further development or industries that need to set up these systems in their facilities.

ADVANTAGES AND INNOVATIVE ASPECTS

The main advantages of these techniques are:

- No direct contact.
- Constant quality in inspecting products.
- It only depends on the parameters fixed for a production process.
- If correctly designed, it allows a product quality inspection similar than a visual inspection carried out by an expert operator.

Meanwhile, the major innovative aspect of this technology is the use of advanced image processing techniques to obtain higher quality inspection systems. Thus, problems with brightness and shadows of images can be avoided.

MARKET APPLICATIONS

The technology can be applied in a large number of industrial facilities in many fields. Among the different industrial sectors, it can be highlighted the Agrofood sector or any industry requiring classification or a system that guarantees quality in the process that is being performed.

For instance, the technology has been successfully employed for:

- detection of defects due to vibrations in aluminium sheets;
- automatic detection of defects in flat glass; or,
- quality control of labels in flowpack wipes.

COLLABORATION SOUGHT

The research group is looking for companies interested in acquiring this technology for its commercial exploitation.

Type of partner sought: Industries

Specific area of activity of the partner: any industry requiring classification or quality control in their processes.

Task to be performed: Joint further development through R&D projects; collaboration for adapting the know-how to their specific necessities.