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Development of a Magnetic Camera for Barcode and QR Magnetic Identification Tag Readout

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Bar-codes allow the storage of information along a 1D vector, while QR Codes allow the storage along a 2D Matrix, containing a much higher information density.

Both are very used in industry and trade and normally employ optical reading systems, given that nowadays it is also possible to do the reading using the Smartphone câmara.

We seek to develop a magnetic câmara consisting of an array of magnetic sensors that can do the reading (line-by-line or 2D) of Bar-Codes and QR Codes printed in magnetic ink.

While the optical reading systems are more efficient and already represent a standard industry, the magnetic systems allow encoding and transmission of secret information, having possible applications in industry, business and security systems.

Author: NICOLICEA, Alberto

Presenter: NICOLICEA, Alberto