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Design and Implementation of 3D Hologram using Machine Learning

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Abstract: *Holographic means "entire recording" and originates from the Greek words "holo" ("whole") and "graphic" ("message"). "Entire" refers to the recording of both the intensity and the phase of the object, as opposed to conventional photography, where only the intensity profile of the object is recorded.*
In a new stage in the organisation and control of the industrial value chain, interchangeably with the fourth industrial revolution. It has a broad vision with well-defined frameworks and reference designs, focusing on bridging physical infrastructure and digital technology in so- called cyber-physical systems. Apart from the other essential technologies, Holography is considered a new innovative technology that can completely transform the vision of Industry
4.0. In industrial applications, holographic technology is used for quality control in manufacturing and fracture testing, such as holographic nondestructive testing. Holography has a wide range of applications in medicine, the military, weather forecasting, virtual reality, digital art, and security. The fourth industrial revolution aims to provide automated asset monitoring, decision-making for corporate operations, and real-time network connectivity. This paper explores holography and its significant benefits through various development processes, features, and applications, where the focus is on 'holography for Industry 4.0'. Hologram technology is a new industry trend and can impact multiple domains of Industry 4.0. Furthermore, the adoption of holographic technologies may improve the efficiency of existing products and services in other technology sectors such as architecture, 3D modelling, mechatronics, robotics, and healthcare and medical engineering

Keywords: Holographic