

**IMAGE QUALITY BASED LIVENESS DETECTION SYSTEM FOR
MULTI BIOMETRIC DETECTION**

*A project report submitted to Jawaharlal Nehru Technological University, Kakinada in
the partial fulfillment of the requirements for the award of degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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(2017 - 2021)

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BONAFIED CERTIFICATE

This is to certify that the project entitled "IMAGE QUALITY BASED LIVENESS DETECTION SYSTEM FOR MULTI BIOMETRIC DETECTION " in partial fulfillment for the degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY VISAKHAPATNAM is an bonafied work carried out by P.YAMUNA DEVI (17A61A0436), V.SUCHARITHA (18815A0414), K.SAIKUMAR (18815A0406) K. DIVYA (1781A0430) under the guidance and supervision during 2017-2021.

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ABSTRACT

Biometric are a way to measure a person's physical characteristics to verify their identity. These can include physiological traits, such as eyes and fingerprints. Biometric systems mostly popular in all over the world because of its User friendly and credible nature in security. In spite of this advantages, many attacks that done through synthetic self-manufactured, fake, reconstructed samples affected on the performance and accuracy of biometric system which becomes major problem in biometrics. Hence, new effective measures have to be taken to protect the biometric systems. In this paper, we propose novel software based multi-biometric fake detection system to detect various types of attacks. The main moto of this system is to enhance security level of biometric recognition systems through Image Quality Assessment (IQA) which is one of the liveness detection method.