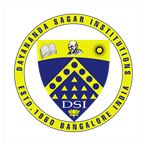
**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM**

**DAYANANDA SAGAR COLLEGE OF ENGINEERING**

**Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560078**

**Department of Computer Science & Engineering**

****

**CERTIFICATE**

This is to certify that the project report entitled **Image Fusion of Infrared(IR) and Visible images using a novel Hybrid MSD approach** is a bonafide work carried out by **Nitin Khatawate [1DS13CS067] Shivprasad Achari [1DS13CS091] Soumil Biswas[1DS13CS099] and Tanish Sugnani [1DS13CS110]** in a partial fulfilment for the 8th semester of **Bachelor of Engineering** in **Computer Science and Engineering** of the **Visvesvaraya Technological University,Belgaum** during the year 2016-17. It is certified that all the correctness or suggestions indicated by the Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project prescribed for Bachelor of Engineering Degree.

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1…………………………. …………………………...

2…………………………. …………………………...

**ABSTRACT**

Image fusion is a process of combining complementary information from multiple images of the same scene into an image so that the resultant image contains a more accurate description of the scene that any of the source images.

Image fusion of visible and infrared images has become one of the most promising area of research for both security (border areas, anti-poaching purpose) and application specific requirement. However, the existing technologies commonly cannot gain fusion performance and acceptable computational complexity simultaneously. We present a novel multi-scale decomposition ( hybrid-MSD) transform. To verify the advantage of the proposed method we compare it with several popular ones in different evaluation metrics over various data sets.

**AKNOWLEDGEMENT**

A successful project is a fruitful culmination of efforts by many people, some directly involved and some others who have quietly encouraged and extended support from the background.

A project is not complete if one fails to acknowledge all these individuals who have been instrumental in their successful completion of the project.

We express our sincere gratitude **Dr. C Prakash**, Principal of our college, DSCE for his advice and guidance that helped us to complete this project with success.

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