

# A SYNOPSIS ON

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## TITLE

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Submitted in partial fulfilment of the requirement for the award of the degree of

**MASTER OF COMPUTER APPLICATIONS**  
**(Write Appropriate Program Name)**

**Submitted by:**

**Student Name 1**

**University Roll No.**

*Under the Guidance of*

**Guide Name**  
**Designation**



**Department of Computer Applications**  
**Graphic Era (Deemed to be University)**  
**Dehradun, Uttarakhand**

**Graphic Era**  
**Deemed to be**  
**University**  
**DEHRADUN**



## CANDIDATE'S DECLARATION

I/we hereby certify that the work which is being presented in the Synopsis entitled “**Title of the project**” in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications **(Write Appropriate Program Name)** in the Department of Computer Applications of the Graphic Era (Deemed to be University), Dehradun shall be carried out by the undersigned under the supervision of **Guide Name, Designation**, Department of Computer Applications, Graphic Era (Deemed to be University), Dehradun.

Name1

University Roll no1

signature

The above mentioned students shall be working under the supervision of the undersigned on the “**Title of the project**”

Signature  
**Supervisor**

Signature  
**Head of the Department**

### Internal Evaluation (By DPRC Committee)

**Status of the Synopsis:** Accepted / Rejected

**Any Comments:**

**Name of the Committee Members:**

**Signature with Date**

- 1.
- 2.

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## **Chapter 1**

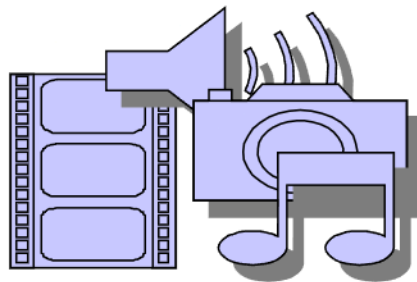
# Introduction and Problem Statement

(2 to 3 pages)

In the following sections, a brief introduction and the problem statement for the work has been included.

## 1.1 Introduction

As estimated by John et al. in [1], .....The detailed review of related techniques has been given in [2, 3].



**Figure 1.1** Wrapper method for feature selection

## 1.2 Problem Statement

The problem statement for the present work can be stated as follows:

.....

## Chapter 2

## **Background/ Literature Survey**

**(2 to 3 pages)**

In the present times, research work is going on in context of .....In this chapter some of the major existing work in these areas has been reviewed.

# **Objectives**

The objectives of the proposed work are as follows:

**3 to 5 Objectives in pointwise**

**(1 page)**

## Hardware and Software Requirements

### 4.1 Hardware Requirements

Sl. No	Name of the Hardware	Specification

### 4.2 Software Requirements

Sl. No	Name of the Software	Specification

## Chapter 5

## Possible Approach/ Algorithms

(2 to 4 pages)



**Figure 4.1** Filter method for feature selection

$$RMSE = \sqrt{\frac{(p_1 - q_1)^2 + \dots + (p_n - q_n)^2}{n}} \quad (4.1)$$



**Table 4.1** Pseudo code of the ABC algorithm

**Input.**

$D$ - the dataset,  $k$ -the number of clusters and  $\alpha$ -the fuzzifier

**begin**

1. Initialize  $Z$  by choosing  $k$  points from  $D$  randomly;
2. Initialize  $W$  with  $w_{jh} = \frac{1}{d} (1 \leq j \leq k, 1 \leq h \leq d)$ ;
3. Estimate  $U$  from initial values of  $W$  and  $Z$  according to Eq. 2.7.
4. Let  $error = 1$  and  $Obj = E_{\alpha, \varepsilon}(W, Z)$ ;
5. **while**  $error > 0$  **do**
6.     Update  $Z$  according to Eq. 2.6 ;
7.     Update  $W$  according to Eq. 2.5;
8.     Update  $U$  according to Eq. 2.7;
9.     Calculate  $NewObj = E_{\alpha, \varepsilon}(W, Z)$ ;
10.    Let  $error = |NewObj - Obj|$ , and then  $Obj \leq NewObj$
11. **end while**
12. Output  $W, Z$  and  $U$

**End**

## References

- [1] N. K. Kanhere and S. T. Birchfield, "Real-time incremental segmentation and tracking of vehicles at low camera angles using stable features," *IEEE Trans. Intell. Transp. Syst.*, vol. 9, no. 1, pp.148-160, March 2008 **(Example : Journal papers)**
- [2] K. Onoguchi, "Moving object detection using a cross correlation between a short accumulated histogram and a long accumulated histogram", Proc. 18th Int. Conf. on Pattern Recognition, Hong Kong, August 20 - 24, 2006, vol. 4, pp. 896 – 899 **(Example : Conference papers)**
- [3] T. H. Cormen, C. E. Leiserson, R. L. Rivest and C. Stein, "Introduction to Algorithms", 2nd ed., The MIT Press, McGraw-Hill Book Company, 2001 **(Example : Text Book/ Magazine)**
- [4] Open Source Computer Vision (OpenCV) [Online]. Accessed on 21st April 2022: <http://opencv.willowgarage.com/wiki/> **(Example : Website)**