Criteria III
(Research Publications and Awards)

Key Indicator 3.3- Research Publication and Awards

3.3.1 Number of Research Papers per teachers in the Journals on UGC website during the last five years

(2017-18)

List of Research Publications

AY 2017-18

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1	Dr. Jayashri Bangali	Energy Efficiency of Internet of Things for Indoor Illumination Systems
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Energy Efficiency of Internet of Things for Indoor Illumination systems

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Abstract

Today, "Internet of Things" (IoT) has become a ubiquitous term. The IoT is a common concept of "anytime" and "anyplace" to the connectivity for "anything". This anything could be a sensor or actuator or any electronic equipment. The connectivity can be via a network of LAN, PAN or body area network. The use of IoT for smart lighting is increasing day by day. However, there are few issues related to energy efficiency of IoT. Illumination system or smart lighting is one of the parts of IoT. Enormous energy savings are possible using energy efficient equipments, effective proper selection of light sources.

This paper presents the details of developed microcontroller based lighting control system for a corridor of a building. It gives the comparison of energy saving due to developed lighting control system and IoT. Further it discusses the issues of IoT related to energy efficiency.

KEYWORDS: Internet of things (IoT), Lighting control system, Energy Efficiency.

Innovation Practice in Development of Commerce 'Business Model Innovation – Ibibo Group'

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Abstract

Innovations are enriched with reference to Product, Process or Business Model. This paper discusses the Business Model Innovation with reference to Ibibo Group which is India's largest online travel group with integrated properties in Hotels, and a great service provider in terms of bus ticketing, vehicle tracking, and recently launched car sharing app. In recent past, it has merged most successful OTA, Make My Trip in Oct 2016. It brought together top travel brands like Make My Trip, goibibo, redbus, Ryde and Rightstay under one unit. This paper critically studies the Business Model Innovation of Ibibo and finds the reasons of their successful business model. The research paper explains its innovation model through a presentation of chart of their successful milestones and suggests for the future expansion in various segments in niche areas like banking.

Key words: Business Model Innovation, OTA

Dr. Shweta Bapat

A Study of Employee Participation in CSR and Its Impact on Employee Engagement

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ABSTRACT

The term engaged workforce is increasingly used to describe the win-win situation where employers expect employees to give their best to achieve organisational goals and employees expect meaningful and challenging job profile. Various research studies across the globe have shown that the level of employee engagement is very low. For example, Gallup Employee Engagement Index reported that, on an average as of 2010, only 33 percent of employees were engaged by their companies, 49 percent were not engaged, and 18 percent were actively disengaged. (Gallup, 2010)

Research done on employee engagement in recent years highlights the importance of identifying new drivers of employee engagement. The review of literature reflects than CSR can be an emerging driver of employee engagement. Several studies were undertaken by the researchers all over the world having on the linkage between CSR and employee engagement have found a strong correlation between employee's commitments to their organization and how they rate its social responsibility. As mentioned in the whitepaper written by Rob Gross President, CR Strategies and Commissioned by Bill Holland President, Mandrake 'CSR is an emerging and increasingly important driver of employee engagement.' (Gross & Holland, 2011). Through this research paper an attempt is made to check whether this is true in case of India. With help of structured survey of employees of selected large scale establishments in India an attempt is made to know and understand the impact of employee participation in CSR on employee engagement. Total 109 responses were received from 22 large scale establishments in India.

1. INTRODUCTION

The term engaged workforce is increasingly used to describe the win-win situation where employers expect employees to give their best to achieve organisational objectives and employees expect meaningful and challenging job. Several studies aimed directly on the linkage between CSR and employee engagement have found a strong correlation between employee's commitment to their organization and how they rate its social responsibility.

Literature review of various research papers, research articles, working papers claims and as mentioned in the whitepaper written by Rob Gross President, CR Strategies and Commissioned by Bill Holland President, Mandrake 'CSR is an emerging and increasingly important driver of employee engagement.' (Gross & Holland, 2011) Through this research paper an attempt is made to check whether this is true in case of selected large scale establishments in India.

1.1 Concept of Corporate Social Responsibility

Corporate Social Responsibility is the voluntary contribution given by the business community towards a better social and environmental development. Businesses across the world generally concentrate more on immediate results, but it is important to see the vast opportunities available by discharging of social responsibility which can help them in for long term sustainability of the organizations.

According to Michel *Hopkins* "Corporate Social Responsibility is concerned with treating the stakeholders of a company or institution ethically or in a responsible*

Dr.Sayee Kulkarni

A Research Paper on Economic Implications of Migration

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ABSTRACT

The research paper discusses the basic concepts of migration and the different types of migration. Migration has several implications from social, demographic, cultural and economic. The paper discusses the economic implications of migration. Migration is divided in types internal and international. These types of migration are further divided into various types and economic implications of each of these sub types are discussed.

KEYWORDS : Brain Drain, Migration, Remittances, Foreign exchange inflows, Globalization.

INTRODUCTION

An important facet of the study of population is the study of migration. Migration technically means movement of people from one place to another.

Migration ranges from movement between two adjoining villages to two faraway countries. A taboo in the olden times migration with the advent of globalization has become a significant phenomenon.

The free movement of capital and labour characterizes globalization. There is a global engagement of Indian people in the world economic affairs. The paper discusses the concepts of migration and the economic implications of Migration.

OBJECTIVES OF THE STUDY:-

1. To study migration as a concept.
2. To analyse the economic implications of migration.

TERMINOLOGIES RELATING TO MIGRATION

Migration though may sound simple, may include various terms. Some prominent ones are discussed as follows:-

Migration: The movement of a person or a group of persons, either across an international border, or within a State. It is a population movement, encompassing any kind of movement of people, whatever its length, composition and causes; it includes migration of refugees, displaced persons, economic migrants, and persons moving for other purposes, including family reunification.

Emigration - The act of departing or exiting from one State with a view to settling in another.

Immigration - A process by which non-nationals move into a country for the purpose of settlement.

Push and Pull Factors: Migration is often analysed in terms of the "push-pull model", which looks at the push factors, which drive people to leave their country (such as economic,

Dr. Anand Buddhikot

Hand Gesture Interface based on Skin Detection Technique for Automotive Infotainment System

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Abstract—The infotainment systems are acquiring wide popularity in automotive domain. These systems are manually operated and require physical contact for interaction. In the present scenario the consumers are demanding a smart phone like experience from the vehicle's console unit. Thus, there is a wide scope for enhancing the mode of interaction and introducing a touch less interface system. The gesture interface approach is a new possibility in this domain. In this method the skin detection plays an important role in segmenting hand region. There are various approaches for hand detection based on skin region identification. The fundamental challenge in skin detection lies in various factors such as illumination, background, camera characteristics, and ethnicity. The gesture detection in automotive environment is further challenging task due to significant impact of wide variation in light, continuous changing background and hindrance caused by vehicle movement. In the present work, design of hand gesture interface for rear seat passenger is discussed. The interface is developed to interact with media player application of infotainment system based on efficient skin detection technique. The objectives of work include study of various skin color modeling, analysis of combination of color spaces, study of hand feature extraction and recognition techniques, design of lab setup for experimentation, implementing gesture interface to access media player application of an infotainment system. The developed prototype lab set up is used for analyzing the skin classifiers and designing a Hi-Vi skin classifier. Further, a user friendly interface is developed using Hi-Vi algorithm with multimode interface features. The evaluation of developed system shows high TPR and low FPR.

Index Terms—HMI, Infotainment system, Skin detection, gesture, Hi-Vi, color space

I. INTRODUCTION

In recent years the automotive domain has developed significantly with the growth in technology and rising user demands. The users demand for embedding multimedia, internet and computing features has evolved into a totally new family of product called Infotainment System. The in-vehicle infotainment system (IVI) are popular in advanced automobiles and may have integrated features like automotive navigation systems, radio, media player, Carputers, in-car internet, Wi-Fi, USB and Bluetooth connectivity [1-2]. In fact there is a range of infotainment devices available in the market designed for various automotive models. Typically, the interface systems in these devices have a driver centric design features. It is necessary that the driver should not be distracted while dealing with the large number of functions of the infotainment device [3-6]. Thus, designing an interface system for these devices in automotive environment is a challenging task. Moreover, it is required to design an effective solution offering optimum features for driver and enhancing the accessibility features for the passengers [7].

Traditionally, these devices are operated through simple dashboards knobs and dials. Presently, the advanced versions of infotainment devices have controls on steering wheel, touch screen interface and remote control device for interaction [8-10]. Aiming for further expansion towards touch less interaction, a lot of research and development is reported for utilizing gesture interactions as a complete solution in automotive environment [11-12].

In automotive domain the research proposals have emphasized on design of gesture interface considering the driver as its prominent user [13-17]. The major issues encountered in this scenario are as follows: