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Sr. No.	Name of Author	Title of the Book/Chapter/Proceeding Paper
1	Dr. J. J. Jadhao	Selected Constitution & International Relation
2	Dr. Sunita Kalakhe	Economic ideas and kautilyas Arthastra
3	Dr. Mukti E. Jadhav	A Review of early detection of autism based on eye-tracking and sensing technology
4	Sanjay A. Salve	Cosmological model with linearly varying decelerating parameter and varying cosmological constant in C-field cosmology
5	Dr. R. P. Gawai	Online shopping- challenges & opportunities
6	Dr. K. N. Shewale	Online shopping is boon for trade culture in India
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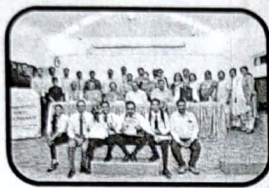
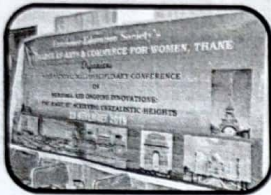
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ECONOMIC IDEAS AND KAUTILYA'S ARTHASTRA.

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Abstract:

In this paper author describe Kautilya laid the foundations of economics in the modern sense he deserves to be labeled as the 'first economist'. Inclusion of Kautilya's Arthashastra in the mainstream of the history of economic thought will help to correct current imbalance about the origins of economic thought and provide readers with a more holistic view of our global intellectual heritage in economics.

Key words: *Kautilya, Modern Economics, Arthashastra.*

Introduction:

Adam Smith is credited with the birth of economics as a subject in its own. Thanks to his magnum opus - 'An Enquiry Into The Nature And Causes Of The Wealth Of Nations' (popularly known as The Wealth of Nations) - 2 published in 1776 that gave him world wide honor as a pioneering philosopher in the area of political economy and also established him as the 'Father of Economics'. The year 1776 became established as the birth year of modern economics. This briefly describes the birth of economics in the western world. If one were to consider the world as a whole, then this conclusion would turn out to be incorrect. The fact remains that economics, as understood in modern times, was born in India in the fourth century B.C., almost two thousand years before 'The Wealth of Nations' was written. The subject was born in the East at a time when nothing about the subject could even be thought of systematically in the West. Courtesy, Vishnugupta, the minister of the king Chandragupta (founder of Maurya dynasty in India) who wrote the now famous book 'ARTHASASTRA' in the fourth century B.C. wherein one can very clearly trace much of the subject matter of the modern day economics (Vishnugupta is more popularly known as Chanakya or Kautilya. Henceforth in this thesis he would be referred to as Kautilya). Kautilya's Arthashastra provides a valuable basis for economic science, a basis long neglected. It contains useful insights about economics. Western thinkers independently discovered these insights in the eighteenth century.

Indian First Economist Kautilya:

The best-known political thinker of the sixteenth century and of the Renaissance was Niccolo Machiavelli, author of 'The Prince'. Kautilya occupied the same place in his times. In fact, The Prince was essentially a manual of realpolitik devoid of economic content. But Kautilya's work fully measures up to the critical standards of modern analytic economics. Kautilya was a multidimensional personality. Kautilya has been widely recognized as a strategist, a great teacher and guide, efficient administrator and statesmen. He was the pioneer of the art of statecraft, a brilliant intellectual and a teacher whose precepts have enduring validity. He never gained importance as a great philosopher and an equally great political economist. Kamandaka, author of Nitisara, fifth century A.D. describes Kautilya thus - "that learned man who had reached the limits of knowledge.... useful in the acquisition and maintenance of the earth" and again as one "who churned the nectar of the science of policy from the ocean of political sciences". In personality there was and is no parallel to Kautilya. Jawaharlal Nehru writes thus about Kautilya - "he was a much bigger person in every way, greater in intellect and action". Clem Tisdell has clearly

A Review of Early Detection of Autism Based on Eye-Tracking and Sensing Technology

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Abstract—The current paper is a review of eye-tracking and sensing technologies that detect and monitor Autism Spectrum Disorder (ASD). Nowadays, the biggest challenge is the detection of autism before the age of 36 months. The diagnosis of autism in the early stage of life can help autistic children improve their social communication and quality of life. Therefore, the technology can support psychologists to get the right diagnoses of autism and accordingly the autistic children can get appropriate treatment for their condition. In this review, the focus is on eye-tracking and sensing technologies. The autistic children have different attentional biases in social interactions that can be measured by eye-tracking technology. Moreover, the autistic children have some signs that can be easily detected by using the sensing technology such as hand flapping, body rocking and motion trackers.

Keywords—Autism Spectrum Disorder (ASD); Typical Developing (TD); Eye Tracking; Sensing Technology; Hand Flapping; Motion Trackers, Machine Learning.

I. INTRODUCTION

The using of the technology to diagnose ASD is rarely utilized in the past but, recently the most powerful tools to detect autism are eye-tracking and sensing technologies. Several studies found the children with ASD don't use eye contact during the social interaction compared to the children with normal deployment [1]. So eye-tracking technology can support the measurements on eye movements which are impossible to assess with the naked eye (e.g. saccades and smooth pursuit). As well as the sensing technology used to detect the abnormal behavior of the children such as body rocking, hand flapping, ...etc.

The diagnosis of ASD is very difficult as it needs for a long time to observe the behavior of the ASD children. ASD average is 1 in every 88 people that make families and governments worried about how to diagnose ASD in the early stage of the children's life [2]. In this review, this paper studies the use of eye-tracking and sensing technology to detect autism early in life. According to previous studies, most eye-tracking and sensing technology researchers have concentrated on quantifying differences in social attention and behavior between samples with ASD and TD children.

The aim of studying ASD is to help Autism specialists to reach the right diagnosis of ASD in the early stage of life. So 80% of the children with autism who were diagnosed at an early stage succeeded in improving their level of communication [2].

The eye-tracking technique allows psychologists to diagnose ASD by monitoring eye movement for a short time and analyze the eye fixation of ASD [3]. There are different types of sensors used to identify the abnormal behaviors that can help to reach the right diagnose of ASD.

This review of previous studies is based on two technologies for examining the autistic children, namely, Eye-Tracking technology and sensing technology between 2013 to up to the publication of this paper. There are also numbers of technologies and methods used by some researchers such as some questionnaires and developmental tests, EGG, MRI and screening and diagnostic-based on videos.

II. RELATED WORK

A. Eye-Tracking Technology

Most of the studies in this review used eye-tracking technology to collect eye fixation and eye motion while children are watching the visual stimuli to detect autism by comparing ASD and TD children. The experiment room should be dark and soundproof. The child is seated in his parent's lap in front of the screen for watching the visual stimuli, there are two types of stimuli, dynamic and static visual stimuli. The researchers used Tobii eye-tracking devices to record the eye-tracking of the children for further processes.

Almourad, M. B., Bataineh, et al.[4] utilized eye-tracking technology in order to compare and analyze autistic children and typically developing children based on gaze patterns. The data was collected from 65 participants, 34 with ASD children and 31 TD children. The average age was 8 years old. They collected the data by Tobii X2 eye tracking. The children were seated in front of the eye tracker device and watched the objects (tomato, football, banana, tomato and a human child's) and the experimenter recorded their eye fixation. In this study, they found children with autism less fixation on eyes and



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This is to certify that


Dr. Mukti E. Jadhav

has successfully presented a paper entitled

A Review of Early Detection of Autism based on Eye-Tracking
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Brochures

Bianchi Type-I Cosmological Model with Linearly Varying Decelerating Parameter and Varying Cosmological Constant in C-field Cosmology

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Abstract:

Bianchi type-I cosmological model with varying cosmological constant Λ has been studied in Hoyle-Narlikar's Creation-field (C-field) theory of gravitation. We consider cosmological constant in the form of $\Lambda \propto H^2$, where $H = \frac{\dot{a}}{a}$ is Hubble parameter (Carvalho, Lima and Waga, 1992). The field equations have been solved by applying linearly varying deceleration parameter proposed by Akarsu and Dereli (2011). The physical aspects of the models are also discussed.

Keywords: C-field cosmology, Linearly varying deceleration Parameter, Cosmological constant Λ .

1. Introduction:

The Deceleration parameters (q) are useful in studying expansion of the universe. We know that the universe has (i) Decelerating expansion if $q > 0$, (ii) An expansion with constant rate if $q = 0$ and (iii) Accelerating expansion if $q < 0$. Special law of variation for Hubble's parameter proposed by Berman [1] to obtain the cosmological solutions called the models with Constant Deceleration Parameter (CDP) by assuming the deceleration parameter q as constant. Akarsu and Dereli [2] have modified Berman's special law of variation for Hubble's parameter by setting $q = -kt + m - 1$, where k and m are constants which yields Linearly Varying Deceleration Parameter (LVDP) models of universe. They have investigated accelerating cosmological solutions for Robertson-Walker space-time by considering LVDP. Ramesh and Umadevi [3] have investigated Cosmological models with linearly varying deceleration parameter in $f(R,T)$ gravity. Recently, Desikan [4] analyzed Cosmological Models in Lyra Geometry with Linearly Varying Deceleration Parameter.

The present day observations of smallness of Cosmological constant ($\Lambda \leq 10^{-56} \text{ cm}^{-2}$) support to assumed the cosmological constant Λ is time dependent, Ram & Verma [5] have studied cosmological models in favor of time dependent $\Lambda \sim t^{-2}$ in different contexts. Ghate *et al.* [6] have studied N-Dimensional FRW dust filled universe with time dependent $\Lambda(t)$ in creation field theory of gravitation.

In the late eighties, the astronomical observations revealed that the predictions of the big-bang model do not always exactly meet our expectations as was believed earlier [7]. So, alternative theories of gravitation were proposed by the researchers. The most popular theory was put forward by Bondi & Gold [8] called steady state theory. The remarkable approach of this theory is that the universe neither have any singular beginning nor an end on the cosmological background and statistical properties of large scale features of the universe do not change. To maintain the constancy of matter density, they contemplate a very slow but continuous creation of matter in contrast to explosive creation at $t = 0$ of standard model. The theory fails for not giving any physical justification for continuous creation of matter and the principle of conservation of matter was violated in this formalism. To overcome this difficulty, Hoyle & Narlikar [9] adopt a field theoretical approach by introducing a massless and chargeless scalar-field C in the Einstein-Hilbert action to account for matter creation. The theory proposed by Hoyle and Narlikar called as C-field theory which has no big-bang type singularity as in Bondi & Gold steady state theory. Some Researchers [10-12] investigated some cosmological models in Creation field cosmology. Recently Malekolkalami and Khalafi [13] have studied LRS Bianchi Type I in C-Field Cosmology with Varying $\Lambda(t)$.

In this paper, we have investigated Bianchi type-I space-time with varying cosmological constant Λ in creation field theory of gravitation. By using special form of deceleration parameter, the solutions of field



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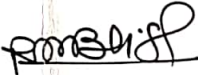
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proceeding



Online Shopping - Challenges & Opportunities

Dr. R. P. Gawai
Associate Professor,
Shri Shivaji Science & Art's College, Chikhli

Introduction

Online Shopping stand for electronic commerce. It means dealing in goods and services through electronic media and internet. The rapid growth of online shopping in India is being driven by greater customer choice and improved convenience which the help of internet the vendor or merchant who sell product or services directly to the customer from the portal using a shopping basket system or digital cart and allows payment through debit card, credit card or electronic fund transfer payment. In the present scenario online shopping market and its space is increasing in demand as well as an impressive display or range of a particular type of services. Online shopping is already appearing in all area of business, customer services new product development and designed. Online shopping business is growing in India because of wide range of product with minimum price wide range of supplier and customers interest. In this modern area every business in it want to join online because increasing ratio of internet users in India. Online shopping in India still in growing stage but it offers considerable opportunity.

Defination

The buying and selling of product and services by business and customers through on electronic media, without using any paper document. Online shopping is widely consider the buying and selling of product over the internet, but any transaction that is completed slowly through electronic measures can be consider online shopping. Online shopping is sub divided into three categories- Business to Business (B2B), Business to Consumer (B 2C) and Consumer to consumer (C2C).

Objective

1. To analyze the present trends and opportunity of Online shopping.
2. To analyze the challenges of online shopping.
3. To examine the barriers of online shopping.
4. To find out the growth factors of online shopping.

Consumer Decision Making & The online shopping process.

Consumer decision are define as the decision consumers make in the market place as buyers, payers and users. This decisions include whether to purchase, what to purchase, when to purchase, whom to purchase and how to pay for it. Consumer have definite resources and must allocate their resources judiciously.

Individual consumer progress begin with a state of discomfort or problem recognition as a result of an internal stimulus or an external stimulus and include a such information on possible solution. The choice step include purchase and deal with issues such as the place and means of purchase as well as actual decision to buy.

Challenges for Online shopping

1. **Finding to right products to sell :** Shopping cart platforms like shopify have eliminated many barriers of entry. Any one can launch an online store within days and start selling all sorts of products.
2. **Attracting the perfect customer :-** Online shoppers don't shop the same way as they used to back in the day. They use amazon and also some other online shopping website to search for product. They ask for recommendation on social media.
3. **Generating Targeted traffic :-** Digital marketing channels are evolving. Retailer can no longer rely one type of channel to drive traffic to their online store.
4. **Capturing quality leads :-** Online retailers are spending a significant amount of money driving traffic to their online store. With conversion rates ranging between 1% to 3%, they must put a lot of effort in generating leads in order to get the most out of their marketing efforts.
5. **Nurturing the ideal prospects :-** Having a large email list is worthless if you're not actively engaging with subscribers. A small percentage of your email list will actually convert into paying customers.

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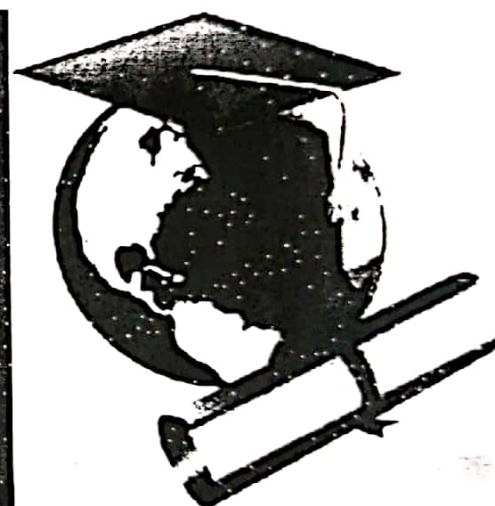
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proceeding

Scope and Limitations in e-commerce

Prof.Suresh Namdeo Gawai

(M.Com.M.Phil)

Department of Commerce & Management

Shri.Shivaji Science & Arts College, Chikhli, Dist-Buldana

Introduction:

What is e-commerce?

Electronic commerce or e-commerce refers to a wide range of online business activities for products and services. It also pertains to "any form of business transaction in which the parties interact electronically rather than by physical exchanges or direct physical contact."

E-commerce is usually associated with buying and selling over the Internet, or conducting any transaction involving the transfer of ownership or rights to use goods or services through a computer-mediated network. Though popular, this definition is not comprehensive enough to capture recent developments in this new and revolutionary business phenomenon. A more complete definition is: E-commerce is the use of electronic communications and digital information processing technology in business transactions to create, transform, and redefine relationships for value creation between or among organizations, and between organizations and individuals.

International Data Corp (IDC) estimates the value of global e-commerce in 2000 at US\$350.38 billion. This is projected to climb to as high as US\$3.14 trillion by 2004. IDC also predicts an increase in Asia's percentage share in worldwide e-commerce revenue from 5% in 2000 to 10% in 2004. Asia-Pacific e-commerce revenues are projected to increase from \$76.8 billion at year-end of 2001 to \$338.5 billion by the end of 2004.

How is the internet relevant to e-commerce?

The Internet allows people from all over the world to get connected inexpensively and reliably. As a technical infrastructure, it is a global collection of networks, connected to share information using a common set of protocols. Also, as a vast network of people and information, the Internet is an enabler for e-commerce as it allows businesses to showcase and sell their products and services online and gives potential customers, prospects, and business partners access to information about these businesses and their products and services that would lead to purchase.

Before the Internet was utilized for commercial purposes, companies used private networks- such as the EDI or Electronic Data Interchange- to transact business with each other. That was the early form of e-commerce. However, installing and maintaining private networks was very expensive. With the Internet, e-commerce spread rapidly because of the lower costs involved and because the Internet is based on open standards.²⁵

The scope of e-commerce is to transact online. Transaction through online can be either on products or services.

The scope of e-commerce is to transact online. Transaction through online can be either on products or services.

Scope and popularity of e-commerce

The scope of e-commerce is to transact online. Transaction through online can be either on products or services. Most of us are aware of buying products online through some sites like e-bay or amazon.com. Almost everything from gym equipment to laptops, from apparels to jewelries, are purchased online in this age of e-commerce. While these are products, people are also buying services online. Consultants to business lawyers are offering their services to their potential clients.



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On

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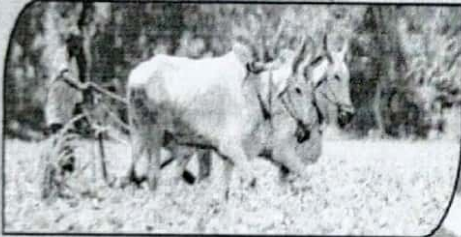
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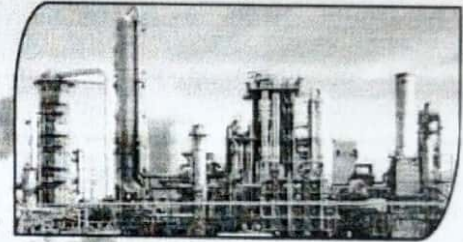
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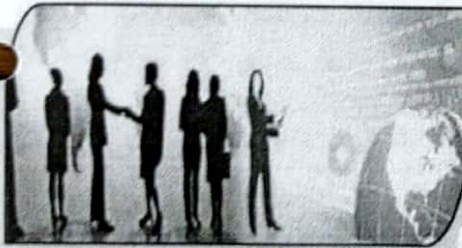


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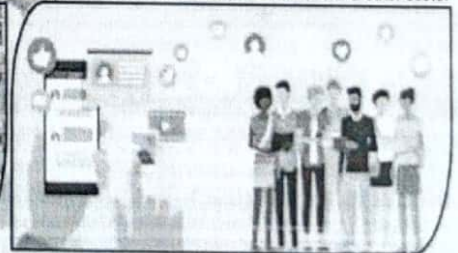
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Economic impact of the COVID-19 pandemic in India

Prof.Suresh Namdeo Gawai

Asso.Prof.in Commerce

Shri.Shivaji Science and Arts College, Chikhli

The economic impact of the 2019–20 corona virus pandemic in India has been largely disruptive. The World Bank and credit rating agencies have downgraded India's growth for fiscal year 2021 with the lowest figures India has seen in three decades since India's economic liberalization in the 1990s. The former Chief Economic Advisor to the Government of India has said that India should prepare for a negative growth rate in FY21 and that the country would need a 710 lakh crore (US\$10 trillion) stimulus to overcome the contraction. However, the International Monetary Fund projection for India for the Financial Year 2021-22 of 1.9% GDP growth is the highest among G-20 nations. Within a month, unemployment rose from 6.7% on 15 March to 26% on 19 April. During the lockdown, an estimated 140 crore (140 million) people have lost employment. More than 45% of households across the nation have reported an income drop as compared to the previous year.

The Indian economy was expected to lose over 32,000 crore (US\$4.5 billion) every day during the first 21-days of complete lockdown which was declared following the coronavirus outbreak. Under complete lockdown, less than a quarter of India's \$2.8 trillion economy was functional. Up to 53% of businesses in the country were projected to be significantly affected. Supply chains have been put under stress with the lockdown restrictions in place; initially there was a lack of clarity in streamlining what is an "essential" and what is not. Those in the informal sectors and daily wage groups are the most at risk. A large number of farmers around the country who grow perishables are also facing uncertainty. Various businesses such as hotels and airlines are cutting salaries and laying off employees.

Major companies in India such as Larsen & Toubro, Bharat Forge, UltraTech Cement, Grasim Industries, Aditya Birla Group and Tata Motors have temporarily suspended or significantly reduced operations. Young startups have been impacted as funding has fallen. Fast-moving consumer goods companies in the country have significantly reduced operations and are focusing on essentials. Some defense deals have been affected/delayed due to the pandemic, such as the delivery of Dassault Rafale fighter jets. Stock markets in India posted their worst loses in history on 23 March 2020.^[17] However, on 25 March, one day after a complete 21-day lockdown was announced by the Prime Minister, SENSEX and NIFTY posted their biggest gains in 11 years, adding a value of 4.7 lakh crore (US\$66 billion) crore to investor wealth.

The Government of India has announced a variety of measures to tackle the situation, from food security and extra funds for healthcare, to sector related incentives

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Contribution Of Women In Modern Science And Technology

Prof.Suresh n.Gawai

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History Cross-cultural perspectives

In the 1970s and 1980s although many books and articles about women scientists were appearing, virtually all of the published sources ignored women of color and women outside of Europe and North America. One of the few exceptions was Derek Richter's 1982 book about women scientists.

The formation of the Kovalevskia Fund in 1985 and the Organization for Women in Science for the Developing World in 1993 gave more visibility to previously marginalized women scientists, but even today there is a dearth of information about current and historical women in science in developing countries. According to Ann Hibner Koblitz,

Most work on women scientists has focused on the personalities and scientific subcultures of Western Europe and North America, and historians of women in science have implicitly or explicitly assumed that the observations made for those regions will hold true for the rest of the world.

Overview of situation in 2013

The leaky pipeline, share of women in higher education and research worldwide, 2013. Source: UNESCO Science Report: towards 2030, Figure 3.3, data from UNESCO Institute for Statistics.

In 2013, women accounted for 53% of the world's graduates at the bachelor's and master's level and 43% of successful PhD candidates but just 28% of researchers. Women graduates are consistently highly represented in the life sciences, often at over 50%. However, their representation in the other fields is inconsistent. In North America and much of Europe, few women graduate in physics, mathematics and computer science but, in other regions, the proportion of women may be close to parity in physics or mathematics. In engineering and computer sciences, women consistently trail men, a situation that is particularly acute in many high-income countries.

Women in decision-making

Each step up the ladder of the scientific research system sees a drop in female participation until, at the highest echelons of scientific research and decision-making, there are very few women left. In 2015, the EU Commissioner for Research, Science and Innovation Carlos Moedas called attention to this phenomenon, adding that the majority of entrepreneurs in science and engineering tended to be men. In Germany, the coalition agreement signed in 2013 introduces a 30% quota for women on company boards of directors.

Although data for most countries are limited, we know that women made up 14% of university chancellors and vice-chancellors at Brazilian public universities in 2010 and 17% of those in South Africa in 2011. In Argentina, women make up 16% of directors and vice-directors of national research centers and, in Mexico, 10% of directors of scientific research institutes at the National Autonomous University of Mexico. In the US, numbers are slightly higher at 23%. In the EU, less than 16% of tertiary institutions were headed by a woman in 2010 and just 10% of universities. At the main tertiary institution for the English-speaking Caribbean, the University of the West Indies, women represented 51% of lecturers but only 32% of senior lecturers and 26% of full professors in 2011. Two reviews of national academies of science produce similarly low



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