

# INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT

I  
J  
R  
C  
M



A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories

*Indexed & Listed at:*

Ulrich's Periodicals Directory ©, ProQuest, U.S.A., EBSCO Publishing, U.S.A., Cabell's Directories of Publishing Opportunities, U.S.A.

Open J-Gate, India [link of the same is duly available at Inlibnet of University Grants Commission (U.G.C.)],  
Index Copernicus Publishers Panel, Poland with IC Value of 5.09 & number of libraries all around the world.

Circulated all over the world & Google has verified that scholars of more than 3480 Cities in 174 countries/territories are visiting our journal on regular basis.

Ground Floor, Building No. 1041-C-1, Devi Bhawan Bazar, JAGADHRI – 135 003, Yamunanagar, Haryana, INDIA

<http://ijrcm.org.in/>

# CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	<b>IMPACT OF MOBILE MARKETING IN THE CURRENT INDIAN SCENARIO</b> <i>DR. VINAYAK KHARE, DR. HARISH B. BAPAT &amp; DR. VISHAL SONI</i>	1
2.	<b>FARMER'S SUGGESTIONS TO IMPROVE THE TANK SYSTEMS PERFORMANCE WITH SPECIAL REFERENCE TO MADURAI DISTRICT</b> <i>DR. M. A. RAJKUMAR &amp; DR. P. KARTHIKEYAN</i>	4
3.	<b>A COMPARATIVE STUDY OF PROBLEMS FACED BY CONSUMERS WHILE USING SERVICES OF INDIA POST AND PRIVATE COURIER SERVICE IN WESTERN MUMBAI</b> <i>MEHUL CHHATBAR &amp; DR. CHITRA NATARAJAN</i>	9
4.	<b>POLICY OF NATIONALISM GUIDANCE THROUGH IN TRADITIONAL MARKET MANAGEMENT IN CENTRAL JAVA</b> <i>DR. SRI SUWITRI</i>	14
5.	<b>GREEN PURCHASING BEHAVIOUR OF YOUNG CONSUMERS IN THOOTHUKUDI</b> <i>DR. K. MARIAMMAL &amp; M.SHUNMUGAVALLI</i>	17
6.	<b>A RESEARCH ON THE EFFICACY OF EMPLOYEE TRAINING IN MANUFACTURING COMPANY, PUNE</b> <i>DR. MANISHA PUROHIT</i>	21
7.	<b>MANAGEMENT LESSONS FROM DABBAWALA</b> <i>B. SARUMATHI, B. SARANYA &amp; A. ANITHA SUPRIYA JOSEPH</i>	24
8.	<b>A STUDY ON THE FACTORS AFFECTING RFID ADOPTING INTENTION OF ONLINE SHOPPING LOGISTICS PROCESS: CASE OF TAIWAN ONLINE RETAIL BUSINESS</b> <i>YU-BING, WANG</i>	29
9.	<b>TRAINING AND DEVELOPING EMPLOYEES: METHODS AND EFFECTS</b> <i>PAYAL CHATLY</i>	36
10.	<b>EURO ZONE CRISIS: ITS GENESIS AND IMPLICATIONS ON INDIAN ECONOMY</b> <i>DR. MADHUR M.MAHAJAN</i>	39
11.	<b>EFFECT OF DIVIDEND ON SHARE'S VOLUME, SHARE'S TURNOVER AND SHARE'S TRADING WITH SPECIAL REFERENCE TO BANKING AND AUTO INDUSTRY: AN INDIAN PERSPECTIVE</b> <i>DR. DEBASISH BISWAS &amp; SAJJUL ISLAM</i>	46
12.	<b>WOMEN ENTREPRENEURSHIP: PROBLEMS &amp; PROSPECTS</b> <i>PAYAL CHATLY</i>	51
13.	<b>REVERSE INNOVATION AS A PERSUASIVE MARKETING TOOL</b> <i>SONIA LOHIA &amp; SACHIN LOHIA</i>	54
14.	<b>CONTRIBUTION OF MICRO AND SMALL SCALE INDUSTRIES IN RURAL DEVELOPMENT: A CASE STUDY OF AJMER DIVISION (AJMER, BHILWARA, TONK AND NAGOUR DISTRICTS)</b> <i>SHWETA SHARMA, DEEPALI SHARMA &amp; S. L. CHOUDHARY</i>	57
15.	<b>INTEGRATING INFORMATION AND COMMUNICATION TECHNOLOGY INTO THE GHANA EDUCATION HEAD OFFICES: AN EMPIRICAL EVIDENCE FROM GHANA</b> <i>ELISHA D'ARCHIMEDES ARMAH</i>	69
	<b>REQUEST FOR FEEDBACK &amp; DISCLAIMER</b>	75

**CHIEF PATRON**

**PROF. K. K. AGGARWAL**

Chairman, Malaviya National Institute of Technology, Jaipur  
(An institute of National Importance & fully funded by Ministry of Human Resource Development, Government of India)  
Chancellor, K. R. Mangalam University, Gurgaon  
Chancellor, Lingaya's University, Faridabad  
Founder Vice-Chancellor (1998-2008), Guru Gobind Singh Indraprastha University, Delhi  
Ex. Pro Vice-Chancellor, Guru Jambheshwar University, Hisar

**FOUNDER PATRON**

**LATE SH. RAM BHAJAN AGGARWAL**

Former State Minister for Home & Tourism, Government of Haryana  
Former Vice-President, Dadri Education Society, Charkhi Dadri  
Former President, Chinar Syntex Ltd. (Textile Mills), Bhiwani

**CO-ORDINATOR**

**AMITA**

Faculty, Government M. S., Mohali

**ADVISORS**

**DR. PRIYA RANJAN TRIVEDI**

Chancellor, The Global Open University, Nagaland

**PROF. M. S. SENAM RAJU**

Director A. C. D., School of Management Studies, I.G.N.O.U., New Delhi

**PROF. M. N. SHARMA**

Chairman, M.B.A., Haryana College of Technology & Management, Kaithal

**PROF. S. L. MAHANDRU**

Principal (Retd.), Maharaja Agrasen College, Jagadhri

**EDITOR**

**PROF. R. K. SHARMA**

Professor, Bharti Vidyapeeth University Institute of Management & Research, New Delhi

**CO-EDITOR**

**DR. BHAVET**

Faculty, Shree Ram Institute of Business & Management, Urjani

**EDITORIAL ADVISORY BOARD**

**DR. RAJESH MODI**

Faculty, Yanbu Industrial College, Kingdom of Saudi Arabia

**PROF. SANJIV MITTAL**

University School of Management Studies, Guru Gobind Singh I. P. University, Delhi

**PROF. ANIL K. SAINI**

Chairperson (CRC), Guru Gobind Singh I. P. University, Delhi

**DR. SAMBHAVNA**

Faculty, I.I.T.M., Delhi

**DR. MOHENDER KUMAR GUPTA**

Associate Professor, P. J. L. N. Government College, Faridabad

**DR. SHIVAKUMAR DEENE**

Asst. Professor, Dept. of Commerce, School of Business Studies, Central University of Karnataka, Gulbarga

***ASSOCIATE EDITORS***

**PROF. NAWAB ALI KHAN**

Department of Commerce, Aligarh Muslim University, Aligarh, U.P.

**PROF. ABHAY BANSAL**

Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida

**PROF. A. SURYANARAYANA**

Department of Business Management, Osmania University, Hyderabad

**DR. SAMBHAV GARG**

Faculty, Shree Ram Institute of Business & Management, Urjani

**PROF. V. SELVAM**

SSL, VIT University, Vellore

**DR. PARDEEP AHLAWAT**

Associate Professor, Institute of Management Studies & Research, Maharshi Dayanand University, Rohtak

**DR. S. TABASSUM SULTANA**

Associate Professor, Department of Business Management, Matrusri Institute of P.G. Studies, Hyderabad

**SURJEET SINGH**

Asst. Professor, Department of Computer Science, G. M. N. (P.G.) College, Ambala Cantt.

***TECHNICAL ADVISOR***

**AMITA**

Faculty, Government M. S., Mohali

***FINANCIAL ADVISORS***

**DICKIN GOYAL**

Advocate & Tax Adviser, Panchkula

**NEENA**

Investment Consultant, Chambaghat, Solan, Himachal Pradesh

***LEGAL ADVISORS***

**JITENDER S. CHAHAL**

Advocate, Punjab & Haryana High Court, Chandigarh U.T.

**CHANDER BHUSHAN SHARMA**

Advocate & Consultant, District Courts, Yamunanagar at Jagadhri

***SUPERINTENDENT***

**SURENDER KUMAR POONIA**

## CALL FOR MANUSCRIPTS

We invite unpublished novel, original, empirical and high quality research work pertaining to recent developments & practices in the areas of Computer Science & Applications; Commerce; Business; Finance; Marketing; Human Resource Management; General Management; Banking; Economics; Tourism Administration & Management; Education; Law; Library & Information Science; Defence & Strategic Studies; Electronic Science; Corporate Governance; Industrial Relations; and emerging paradigms in allied subjects like Accounting; Accounting Information Systems; Accounting Theory & Practice; Auditing; Behavioral Accounting; Behavioral Economics; Corporate Finance; Cost Accounting; Econometrics; Economic Development; Economic History; Financial Institutions & Markets; Financial Services; Fiscal Policy; Government & Non Profit Accounting; Industrial Organization; International Economics & Trade; International Finance; Macro Economics; Micro Economics; Rural Economics; Co-operation; Demography; Development Planning; Development Studies; Applied Economics; Development Economics; Business Economics; Monetary Policy; Public Policy Economics; Real Estate; Regional Economics; Political Science; Continuing Education; Labour Welfare; Philosophy; Psychology; Sociology; Tax Accounting; Advertising & Promotion Management; Management Information Systems (MIS); Business Law; Public Responsibility & Ethics; Communication; Direct Marketing; E-Commerce; Global Business; Health Care Administration; Labour Relations & Human Resource Management; Marketing Research; Marketing Theory & Applications; Non-Profit Organizations; Office Administration/Management; Operations Research/Statistics; Organizational Behavior & Theory; Organizational Development; Production/Operations; International Relations; Human Rights & Duties; Public Administration; Population Studies; Purchasing/Materials Management; Retailing; Sales/Selling; Services; Small Business Entrepreneurship; Strategic Management Policy; Technology/Innovation; Tourism & Hospitality; Transportation Distribution; Algorithms; Artificial Intelligence; Compilers & Translation; Computer Aided Design (CAD); Computer Aided Manufacturing; Computer Graphics; Computer Organization & Architecture; Database Structures & Systems; Discrete Structures; Internet; Management Information Systems; Modeling & Simulation; Neural Systems/Neural Networks; Numerical Analysis/Scientific Computing; Object Oriented Programming; Operating Systems; Programming Languages; Robotics; Symbolic & Formal Logic; Web Design and emerging paradigms in allied subjects.

Anybody can submit the **soft copy** of unpublished novel; original; empirical and high quality **research work/manuscript anytime** in **M.S. Word format** after preparing the same as per our **GUIDELINES FOR SUBMISSION**; at our email address i.e. [infoijrcm@gmail.com](mailto:infoijrcm@gmail.com) or online by clicking the link **online submission** as given on our website ([FOR ONLINE SUBMISSION, CLICK HERE](#)).

## GUIDELINES FOR SUBMISSION OF MANUSCRIPT

### 1. **COVERING LETTER FOR SUBMISSION:**

DATED: \_\_\_\_\_

**THE EDITOR**  
IJRCM

**Subject: SUBMISSION OF MANUSCRIPT IN THE AREA OF.**

**(e.g. Finance/Marketing/HRM/General Management/Economics/Psychology/Law/Computer/IT/Engineering/Mathematics/other, please specify)**

**DEAR SIR/MADAM**

Please find my submission of manuscript entitled ' \_\_\_\_\_ ' for possible publication in your journals.

I hereby affirm that the contents of this manuscript are original. Furthermore, it has neither been published elsewhere in any language fully or partly, nor is it under review for publication elsewhere.

I affirm that all the author (s) have seen and agreed to the submitted version of the manuscript and their inclusion of name (s) as co-author (s).

Also, if my/our manuscript is accepted, I/We agree to comply with the formalities as given on the website of the journal & you are free to publish our contribution in any of your journals.

#### **NAME OF CORRESPONDING AUTHOR:**

Designation:  
Affiliation with full address, contact numbers & Pin Code:  
Residential address with Pin Code:  
Mobile Number (s):  
Landline Number (s):  
E-mail Address:  
Alternate E-mail Address:

#### **NOTES:**

- a) The whole manuscript is required to be in **ONE MS WORD FILE** only (pdf. version is liable to be rejected without any consideration), which will start from the covering letter, inside the manuscript.
- b) The sender is required to mention the following in the **SUBJECT COLUMN** of the mail:  
**New Manuscript for Review in the area of** (Finance/Marketing/HRM/General Management/Economics/Psychology/Law/Computer/IT/Engineering/Mathematics/other, please specify)
- c) There is no need to give any text in the body of mail, except the cases where the author wishes to give any specific message w.r.t. to the manuscript.
- d) The total size of the file containing the manuscript is required to be below **500 KB**.
- e) Abstract alone will not be considered for review, and the author is required to submit the complete manuscript in the first instance.
- f) The journal gives acknowledgement w.r.t. the receipt of every email and in case of non-receipt of acknowledgment from the journal, w.r.t. the submission of manuscript, within two days of submission, the corresponding author is required to demand for the same by sending separate mail to the journal.

2. **MANUSCRIPT TITLE:** The title of the paper should be in a 12 point Calibri Font. It should be bold typed, centered and fully capitalised.

3. **AUTHOR NAME (S) & AFFILIATIONS:** The author (s) **full name, designation, affiliation (s), address, mobile/landline numbers**, and **email/alternate email address** should be in italic & 11-point Calibri Font. It must be centered underneath the title.

4. **ABSTRACT:** Abstract should be in fully italicized text, not exceeding 250 words. The abstract must be informative and explain the background, aims, methods, results & conclusion in a single para. Abbreviations must be mentioned in full.

5. **KEYWORDS:** Abstract must be followed by a list of keywords, subject to the maximum of five. These should be arranged in alphabetic order separated by commas and full stops at the end.
6. **MANUSCRIPT:** Manuscript must be in **BRITISH ENGLISH** prepared on a standard A4 size **PORTRAIT SETTING PAPER**. It must be prepared on a single space and single column with 1" margin set for top, bottom, left and right. It should be typed in 8 point Calibri Font with page numbers at the bottom and centre of every page. It should be free from grammatical, spelling and punctuation errors and must be thoroughly edited.
7. **HEADINGS:** All the headings should be in a 10 point Calibri Font. These must be bold-faced, aligned left and fully capitalised. Leave a blank line before each heading.
8. **SUB-HEADINGS:** All the sub-headings should be in a 8 point Calibri Font. These must be bold-faced, aligned left and fully capitalised.
9. **MAIN TEXT:** The main text should follow the following sequence:

**INTRODUCTION****REVIEW OF LITERATURE****NEED/IMPORTANCE OF THE STUDY****STATEMENT OF THE PROBLEM****OBJECTIVES****HYPOTHESES****RESEARCH METHODOLOGY****RESULTS & DISCUSSION****FINDINGS****RECOMMENDATIONS/SUGGESTIONS****CONCLUSIONS****SCOPE FOR FURTHER RESEARCH****ACKNOWLEDGMENTS****REFERENCES****APPENDIX/ANNEXURE**

It should be in a 8 point Calibri Font, single spaced and justified. The manuscript should preferably not exceed **5000 WORDS**.

10. **FIGURES & TABLES:** These should be simple, crystal clear, centered, separately numbered & self explained, and **titles must be above the table/figure. Sources of data should be mentioned below the table/figure.** It should be ensured that the tables/figures are referred to from the main text.
11. **EQUATIONS:** These should be consecutively numbered in parentheses, horizontally centered with equation number placed at the right.
12. **REFERENCES:** The list of all references should be alphabetically arranged. The author (s) should mention only the actually utilised references in the preparation of manuscript and they are supposed to follow **Harvard Style of Referencing**. The author (s) are supposed to follow the references as per the following:
  - All works cited in the text (including sources for tables and figures) should be listed alphabetically.
  - Use (ed.) for one editor, and (ed.s) for multiple editors.
  - When listing two or more works by one author, use --- (20xx), such as after Kohl (1997), use --- (2001), etc, in chronologically ascending order.
  - Indicate (opening and closing) page numbers for articles in journals and for chapters in books.
  - The title of books and journals should be in italics. Double quotation marks are used for titles of journal articles, book chapters, dissertations, reports, working papers, unpublished material, etc.
  - For titles in a language other than English, provide an English translation in parentheses.
  - The location of endnotes within the text should be indicated by superscript numbers.

**PLEASE USE THE FOLLOWING FOR STYLE AND PUNCTUATION IN REFERENCES:****BOOKS**

- Bowersox, Donald J., Closs, David J., (1996), "Logistical Management." Tata McGraw, Hill, New Delhi.
- Hunker, H.L. and A.J. Wright (1963), "Factors of Industrial Location in Ohio" Ohio State University, Nigeria.

**CONTRIBUTIONS TO BOOKS**

- Sharma T., Kwatra, G. (2008) Effectiveness of Social Advertising: A Study of Selected Campaigns, Corporate Social Responsibility, Edited by David Crowther & Nicholas Capaldi, Ashgate Research Companion to Corporate Social Responsibility, Chapter 15, pp 287-303.

**JOURNAL AND OTHER ARTICLES**

- Schemenner, R.W., Huber, J.C. and Cook, R.L. (1987), "Geographic Differences and the Location of New Manufacturing Facilities," Journal of Urban Economics, Vol. 21, No. 1, pp. 83-104.

**CONFERENCE PAPERS**

- Garg, Sambhav (2011): "Business Ethics" Paper presented at the Annual International Conference for the All India Management Association, New Delhi, India, 19-22 June.

**UNPUBLISHED DISSERTATIONS AND THESES**

- Kumar S. (2011): "Customer Value: A Comparative Study of Rural and Urban Customers," Thesis, Kurukshetra University, Kurukshetra.

**ONLINE RESOURCES**

- Always indicate the date that the source was accessed, as online resources are frequently updated or removed.

**WEBSITES**

- Garg, Bhavet (2011): Towards a New Natural Gas Policy, Political Weekly, Viewed on January 01, 2012 <http://epw.in/user/viewabstract.jsp>

## A STUDY ON THE FACTORS AFFECTING RFID ADOPTING INTENTION OF ONLINE SHOPPING LOGISTICS PROCESS: CASE OF TAIWAN ONLINE RETAIL BUSINESS

**YU-BING, WANG**  
**ASST. PROFESSOR**  
**DEPARTMENT OF MARKETING**  
**FENG-CHIA UNIVERSITY**  
**TAICHUNG**

### ABSTRACT

*The purpose of this study is going to investigate how RFID technology is implemented and adopted in Taiwan's online retail stores. Specifically, this study focused on the positive influences of using RFID technology in online retail business, which located on two most popular online shopping malls in Taiwan-Yahoo shopping center and PCHOME online shopping. This study also aimed to determine the factors of concern about adopting an RFID technology into current logistics management systems. An integral part of this research is going to develop and empirically test a model of the adoption of RFID in the context of the logistics process in Taiwan Online retail store on Yahoo shopping center and PCHOME online shopping. Based on the concepts of Rogers innovation diffusion theory, Davis technology acceptance model, and theory of reasoned action, this research used a questionnaire to assess Taiwan online stores' cognition and perspective of the perceived usefulness of, perceived ease of use of, cost, normative belief about, and motivation to comply toward RFID systems, as well as to assess their attitudes toward an RFID system and intentions of using such a system into its shipping and logistics process. Finally, based on the research results, managerial implications and opportunities for future research will be suggested in both academic and practical.*

### KEYWORDS

Intelligent logistics, RFID System, Online Shopping Logistics, Online Retail Business.

### INTRODUCTION

#### RESEARCH BACKGROUND

An Online retail store is a website based platform that includes four flows of e-commerce: business flow, logistics/goods flow, money flow and information flow (Ho, 2012). Owing to the competitive market of online shopping, the author of this research believes that online stores must have an efficient "logistics flow/process" to stand out online store's competitive advantages and service features. Logistics tasks heavily depend on reliable and accurate shipment and tracking information. For this reason, online store and its logistics process today has evolved into a high-technology task. The popularity of online shopping is a global phenomenon, as well as in Taiwan. According to Taiwan Network Information Center (July 2012), 77.25% of Taiwan citizen above twelve years old had online surfing experiences. Surveys of Internet users have revealed that 59.62% of Internet users in Taiwan reported they had shopped online, just behind the rate of "Social Media service" usage 76.62%.

Changing consumer lifestyles and lack of time may make it more difficult for consumers to shop at physical locations such as stores and shopping malls (Davies 1995, Cheeseman and Breddin 1995). In the increasingly competitive market, the main concern for online sellers has shifted from inducing consumers to adopt their online channels to motivating consumers to make repeat purchases through these channels (Chiu, 2011). From online shoppers points of view, shopping online are convenience and timesaving, as compared to shopping in physical stores.

According to a report of Institute for Information Industry (2008), most of online shoppers care about how fast and how easy they can get their online orders. A report from Lifestyle Monitor Survey 2011 discovered that online consumer's concerns when shopping online fall into two major categories: logistics and products. Within the context of Online retail logistics, the top concerns related to shipping costs (89%), return policy (80%), shipping time (67%) and product availability (67%). Moreover, from the aspect of the competitive advantage, Insightexplorer Limited (2012) discovered that over 43% of consumers pay much attentions about Fast delivery guarantee then product price (26%), followed by free return and exchange (17%), and finally the free shipping offers (14%). According to those numbers above, fast and convenience are the most critical advantages for online stores. GartnerG2 research director David Schehr mentioned that all of their research shows that consumers are most interested in convenience, not price. According to him, shoppers do still expect bargains online, but fast delivery and a wide selection are more important factors; price comes into the picture along with convenience, but it's no longer the main reason people shop online (Regan 2002).

### RESEARCH MOTIVATION

The world largest online retail business, Amazon.com acquired logistics technology firm Kiva systems for \$775 million in March 2012. Amazon.com is a retail company and they must have done a thorough cost benefit analysis to determine that Kiva systems make their order distributions more efficient says Sanjay Sarma, one of the founders of the MIT Auto-ID Center, and recently named chairman of the EPCglobal Board of Governors.

Logistics could be the main reason that online store can really offers a convenient shopping environment to consumers. Those shopping trips around shopping malls, supermarkets and department stores had been substituted by online retail logistics. "Logistics is going to play a major role in this picture. Gone will be the days of the consumers going the so-called "last mile" – taking their purchases home themselves. Online shopping makes retailers responsible for the last mile – and it becomes a huge competitive element (Paludan, 2012)." Retailers who work with the most innovative logistics providers will win the day. Those logistics companies/departments will really have to keep an eye on the future and what people's needs are. Therefore, shipping efficiency and lower shipping charges from the logistics process can be major competitive advantages for online stores.

### PURPOSE OF THIS STUDY

Since 2003, mass consuming markets have demonstrated a significant shift toward Radio Frequency Identification (RFID) technology. This has occurred not only because of RFID mandates imposed by Wal-Mart, but also the wide use of RFID by government sectors (Wang, 2011). Journalists and researchers (Sabbaghi, 2007; Vaidyanathan, 2007) have found that a growing number of business use RFID in their supply chain, inventory, and manufacturing processes.

The ability of RFID system offers a great value-added technology that increases significant value to logistic process. Utilizing the RFID read-write technology not only provides faster products distribution from keeping low and safe inventory to smoothing supply chain stream flow, but also increase substantially the accuracy of current location data and equipment availability.

Base on all these Online retail background and online consumers' concerns that discussed above, the researcher of this study tends to understand how the RFID technology can be implied and adopted into the logistics process of Taiwan Online retail business. The purpose of this study is going to determine the concern factors of adopting the RFID system into current logistics works for Taiwan online retailers.

### RESEARCH QUESTIONS

Based on the research background and purpose of the study, this investigation attempted to examine various factors of RFID implementation of logistics process of Taiwan online retailers'. This paper seeks to answer the following research questions:

1. What factors influence RFID technology acceptance in the logistics process of Taiwan online retailers?
2. What are the barriers to RFID adoption in the logistics process of Taiwan online retailers?
3. What factor influences the awareness of RFID technology adoption in the logistics process of Taiwan online retailers?
4. What factors affect RFID implementation in the logistics process of Taiwan online retailers?

## REVIEW OF LITERATURE

### FUNDAMENTAL THEORIES

The general problem that inspired this research was to determine how the Intelligent Logistics could be adopted smoothly and successfully in the logistics process of Taiwan online business. The diffusion of RFID in logistics task of online stores application in Taiwan, the acceptance of using RFID technology among logistics companies in Taiwan and how the theory of reasoned action toward RFID adoption of Taiwan Online retail business are going to be studied. Using three fundamental theories: diffusion of innovation theory (DIT), technology acceptance model (TAM) and the theory of reasoned action (TRA) significant results were explained in the future.

An integral part of this research is going to develop and test a model empirically of the adoption of RFID in the context of online shopping stores in Taiwan. Based on the concepts of Rogers (1983) the theory of technology diffusion, Davis' (1989) the Technology acceptance model (TAM), and Ajzen and Fishbein (1975) the theory of Reasoned Action (TRA), this research is going to use a questionnaire to assess the logistics process of Taiwan online stores about the managers of online stores' cognitions of the compatibility, complexity, relative advantage, and cost of the RFID system adoption, as well as to assess their attitudes toward the RFID system and intentions of using the system.

### INNOVATION DIFFUSION THEORY (IDT)

According to Rogers (1983), "diffusion is the process by which an innovation is communicated through certain channels over time among the members of a social system". (p.5) In Rogers definition: "innovations that are perceived by individuals as having greater relative advantage, compatibility, trialability, and observability and less complexity will be adopted more rapidly than other innovations" (p.16). Innovations with the cluster of opposite characteristics require a longer diffusion period. There are many studies that indicate that these five qualities are the most important characteristics of innovation in explaining the rate of adoption.

### TECHNOLOGY ACCEPTANCE MODEL (TAM)

The technology acceptance model (TAM) was introduced to the academic world by Davis (1989) in his paper "Perceived Usefulness, Perceived Ease of Use, and User Acceptance of Information Technology" in MIS Quarterly. Some studies have indicated that TAM is the revised version of the main concepts of Theory of Reasoned Action (Ajzen and Fishbein, 1980). The goal of TAM is to predict new technology acceptance and diagnose design problems before users have experience with this particular technology. TAM predicts that user acceptance of any technology is determined by two internal beliefs: perceived usefulness (PU) and perceived ease of use (PEU) (Davis, 1989), which are the outside factors can influence user intention to use a technology. These are two key beliefs determining user Behavioral Intention to use (Davis, 1989; Davis, Bagozzi and Warshaw, 1989). PE and PEU are the independent variables that explain the relationship between users and a new technology system and ascertain the determinants of technology acceptance. The dependent variables are users' attitudes (A), behavioral intentions (BI), and usage behaviors (UB). Davis (1989) formed those variables into the Technology Acceptance Model.

### THEORY OF REASONED ACTION (TRA)

The theory of Reasoned Action was developed by Martin Fishbein and Icek Ajzen, which as an improvement over Information Integration theory (Ajzen & Fishbein, 1980; Fishbein & Ajzen, 1975). In Ajzen and Fishbein's (1980) theory, the intention toward a behavior is the best predictor of the actual behavior. According to the theory of reasoned action (TRA), Behavior Intention (BI) is to predict and understand individual behavior in a social context, which included two determinates: the individual's Attitude (A) toward the new concept, and Subjective Norm (SN)-a person's perception of social pressure.

### INTELLIGENT LOGISTICS- RADIO FREQUENCY IDENTIFICATION (RFID) TECHNOLOGY

Radio Frequency Identification (RFID) technology is defined as a "wireless data collection technology that uses electronic tags for storing data and recognizing data" (Expert Barcode & RFID, Inc., 2009, ¶ 5), and then uses radio waves to automatically identify any objects that have RFID tags. Sandip Lahiri, an RFID Solution Architect with IBM Global Services, indicated in his RFID Sourcebook (2006) that "RFID is an example of automatic identification (Auto-ID) technology by which a physical object can be identified automatically. Other examples of Auto-ID include barcode, biometric (for example, using fingerprint and retina scan), voice identification, and optical character recognition systems." (p. 1)

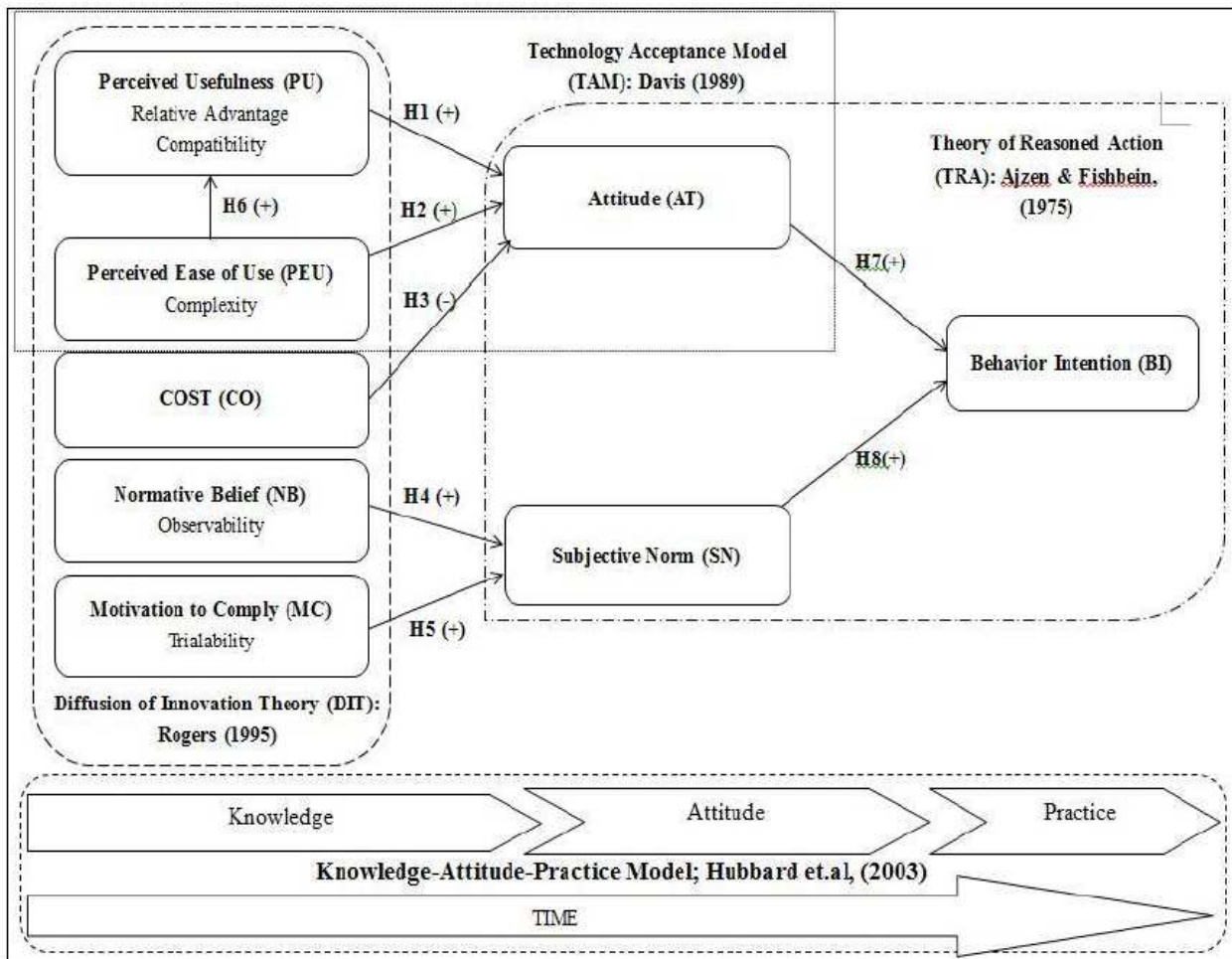
The use of Radio Frequency Identification (RFID) in tracking and access applications first appeared during the 1980s. As the technology has been refined, more pervasive and possibly invasive uses for RFID systems have quickly gained the retail industry's attention because of RFID's ability to track moving objects. Like the barcode system, RFID is a technology that can scan for tracking purposes, but the functions of RFID go much further than barcodes.

## RESEARCH METHODOLOGY

The major objective of this study is going to investigate how the intelligent logistics-RFID system can be adopted and accepted in the context of Taiwan online stores' logistics process. In accordance with the research framework and hypotheses, the researcher of this study requested permission to use the Technology Acceptance Model (TAM) from its developer, Dr. Fred Davis, and adapted his perceived of usefulness and perceived ease of use measurement scale to organize a questionnaire suitable for this research. The research population is comprised Taiwan online stores who sell products via pchome online shopping mall and yahoo online shopping center, the first and second website that shopper's most love to shop online.



FIGURE 1: RESEARCH FRAMEWORK



SOURCE: Organized by the author of this study, Apr.2014.

**RESEARCH HYPOTHESES**

The hypotheses for the research questions are listed below:

- H1:** The Perceived Usefulness/Relative Advantage/Compatibility of RFID system positively affects the Attitudes toward RFID adoption in logistics process of Taiwan online retailers.
- H2:** The Perceive Ease of Use/Complexity of RFID system positively affects the Attitude toward RFID adoption in logistics process of Taiwan online retailers.
- H3:** The Cost of adopting RFID system negatively affects the Attitude toward RFID adoption in logistics process of Taiwan online retailers.
- H4:** The Normative Belief/Observability of RFID system positively affects the Subjective Norm of RFID adoption in logistics process of Taiwan online retailers.
- H5:** The Motivation to Comply/Trialability of RFID system positively affects the Subjective Norm of RFID adoption in logistics process of Taiwan online retailers.
- H6:** The Perceive Ease of Use/Complexity of RFID system positively affects the Perceived Usefulness of RFID adoption in the logistics process of Taiwan online retailers.
- H7:** The attitude of using RFID system positively affects the behavioral intention of RFID adoption in logistics process of Taiwan online retailers.
- H8:** The Subjective Norm of RFID system positively affects the behavioral intention of RFID adoption in logistics process of Taiwan online retailers.

**RESEARCH POPULATION**

The research population is comprised Taiwan online stores who sell products via pchome online shopping mall and yahoo online shopping center. According to EZprice Analysis Report revealed in July 2013, the biggest and second largest online shopping platforms are pchome online shopping and yahoo shopping center. It owns closely over 15,000 online retail stores. For this reason, this study plans to use the purposeful sampling method and a questionnaire survey method will be used to collect primary data from online retail stores, which located on Yahoo shopping center and Pchome online shopping.

**DATA COLLECTION AND ANALYSIS**

The research population for this study was the online retail companies list under the 2013 power online seller competition held by Business Next Publishing Corp., Taiwan most influential tech-media, and those online retailer lists published in July 2013, a total of 232 companies were the research population. The survey operated in January 2014, after a month survey period, there were 201 valid questionnaires collected, yielding a usable response rate of 86.6 percent.

**DATA COLLECTION PROCEDURE**

The author of this researcher is going to set one month up as the operation time. Owing to the fact that the sample companies are widely spread across many different cities and counties in Taiwan, an e-mail survey method will be used in this research. According to Rogelberg and Luong (1998) the typical return rate for a mailed questionnaire is 50% or less, and in recent years it has steadily declined. For this reason, a reminder e-mail will followed up after the first week and to enhance the response rate.

**RESEARCH FRAMEWORK**

To organize fundamental theories tighter, author of this research arranged the diffusion of innovation's five categories: attributes of an innovation, relative advantage, compatibility, observability, complexity, and trialability of the RFID system adoption as survey questions for this research to evaluate the perceived attitude, subjective norms, and the behavioral intention regarding Taiwan online retailers' RFID adoption. Therefore, the technology acceptance model (TAM), theory of reasoned action (TRA), and diffusion of innovation theory (DIT) were the basic foundation of the research framework, as shown in following Figure.

**VALIDITY AND RELIABILITY**

The instrument of this research was developed with relevant references, key literature reviews and critical theory of Davis' (1989.) as the fundamental knowledge. Questions are abstracted from the most important points of the fundamental knowledge base. Thus, the questionnaire consisted of valid and crucial questions.

The construct reliability is tested using composite reliability measures that assess the extent to which items in the construct measure the latent concept. A commonly acceptable threshold value for composite reliability (CR) is 0.7 or more (Hair et al., 1998). Table below shows that the composite reliability (CR) of the latent variable was higher than 0.7, which indicated that all measures had a good reliability (Bagozzi & Yi, 1998; Hair et al., 1998) Moreover, the completely standardized factor loadings all reached the level of significance. All the latent variables had a CR above 0.70 and an average variance extracted (AVE) above 0.5.

TABLE 1: CONFIRMATORY FACTOR ANALYSIS (CFA) RESULTS FOR THE CONSTRUCTS

		Standardized Regression Weigh	Cranach's α	C.R.	AVE
Perceived Usefulness	B2	0.734	0.758	0.761	0.515
	B5	0.727			
	B8	0.692			
Perceived Ease of Use	B10	0.792	0.917	0.919	0.739
	B11	0.925			
	B12	0.900			
	B13	0.815			
Observability	B22	0.832	0.922	0.927	0.810
	B23	0.953			
	B24	0.910			
Triability	B18	0.861	0.870	0.873	0.697
	B19	0.829			
	B20	0.814			
Cost	B25	0.876	0.834	0.839	0.636
	B26	0.760			
	B27	0.751			
Attitude	B35	0.930	0.900	0.905	0.763
	B36	0.904			
	B37	0.780			
Subjective Norm	B28	0.926	0.941	0.942	0.845
	B29	0.946			
	B30	0.884			
Behavior Intention	B38	0.932	0.892	0.898	0.747
	B39	0.884			
	B40	0.770			

SOURCE: this research

DISCRIMINANT VALIDITY

Discriminant validity measures the extent to which conceptually similar constructs are distinct. Discriminant validity is examined by comparing the correlation between the construct and the square root of AVE. AVE represents the overall amount of variance in the indicators accounted for by the latent construct. The AVE should be greater than the square of correlations between the construct for satisfactory discriminant validity (Bhattacharjee et al. 2004; Wixom et al. 2005). As shown in Table below, diagonal was AVE of constructs and the other were two dimensions of correlation coefficients. All correlation coefficients were less than AVE. Hence, the discrimination validity was adequate.

TABLE 2: DISCRIMINANT VALIDITY

CONSTRUCT	PU	PEU	OB	TA	CO	AT	SN	BI
PU	<b>0.515</b>							
PEU	0.066	<b>0.739</b>						
OB	0.053	0.097	<b>0.810</b>					
TA	0.189	0.166	0.313	<b>0.697</b>				
CO	0.050	0.033	0.005	0.062	<b>0.636</b>			
AT	0.115	0.092	0.114	0.083	0.020	<b>0.763</b>		
SN	0.003	0.042	0.127	0.105	0.012	0.009	<b>0.845</b>	
BI	0.294	0.080	0.109	0.331	0.042	0.106	0.031	<b>0.747</b>

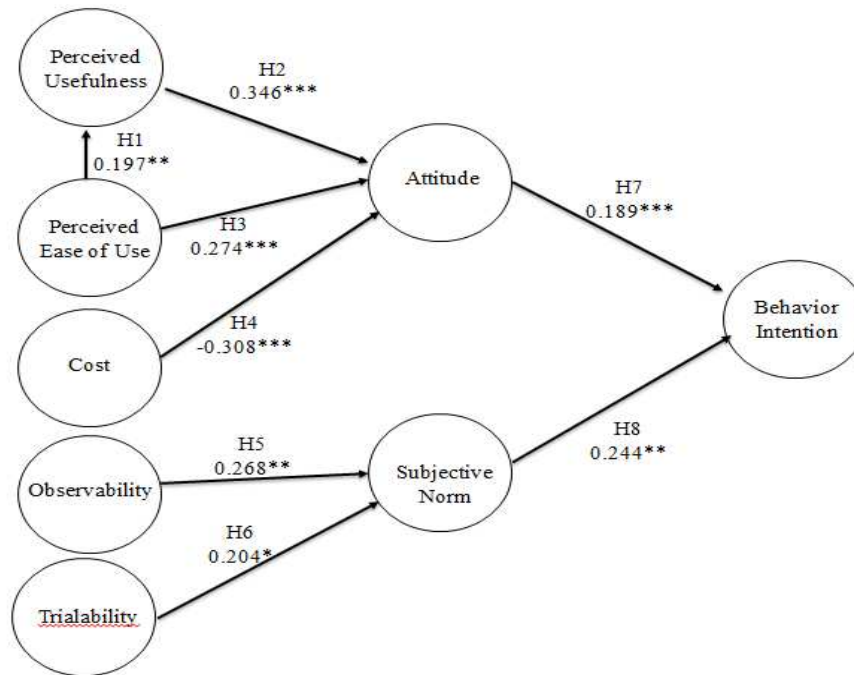
SOURCE: this research

STATISTICAL RESULTS

TABLE 3: RESULTS OF THE HYPOTHESES AND THE PRACTICAL PATH

	Hypothesis	Expected Result	Standard Regression coefficient	t-Value
PU→PEU	H1	+	0.197	2.631**
PU→AT	H2	+	0.346	4.220***
PEU→AT	H3	+	0.274	3.767***
CO→AT	H4	-	0.308	4.158***
OB→SN	H5	+	0.268	2.908**
TR→SN	H6	+	0.204	2.139*
AT→BI	H7	+	0.189	3.987***
SN→BI	H8	+	0.244	2.761**
Fit index	Threshold	Goodness-of-fit	Source	
$\chi^2/df$	<3	2.191	Hair et al.(1992)	
GFI	>0.8	0.828	Seyal et al.(2002)	
AGFI	>0.8	0.874	Scott(1994)	
NFI	>0.8	0.858	Bentler & Bonett(1989)	
CFI	>0.9	0.917	Bentler & Bonett(1989)	
RMSEA	<0.08	0.077	Hair et al.(1992)	

FIGURE 1



SOURCE: this research

## CONCLUSION

This quantitative study utilized a questionnaire to identify Taiwanese online retailers' adoption intentions toward intelligent logistics tool- the RFID systems into its shipping/logistics process. Statistical analysis of questionnaire results provided insight into how the behavioral intention toward RFID system acceptance relates to attitudes toward belief and subjective norms— aspects central to Rogers' (1995) diffusion of innovation theory. Information acquires from this study may provide significant information for analyzing and developing future business intelligent concept and RFID adoption within online shopping market in Taiwan. Furthermore, applying this research model toward other industries may prove beneficial for Taiwanese companies in industries other than online retail stores.

The results of this study showed, that the most concerned issue of online retailers is the fulfillment speeds of its logistics tasks, for instance, order fulfillment, delivery guaranteed, etc. Moreover, the logistics task always needs real-time technology systems to support its logistics operations, such as point of sale, inventory management, and supply chain management.

This practical result was in accordance with the literature studies discussed in chapter two that showed that RFID application can significantly benefit and assist users. (Kevan, 2004; Murphy, 2005; Gagel 2007; Bianchin, 2007; Dortch, 2009). It showed that the Taiwanese online retail company attaches importance to those functions that an RFID system can improve or provide: storage management, access control security systems, inventory management, transportation management, and logistics and tracking. The research findings showed that those important functions match the key procedures of the online retailers shipping workflow. The Taiwanese Online retail business found that if the company can properly utilize all functions of the RFID system, it can not only help to improve the company's competitive ability, but it can also optimize the company's resource relocation. Furthermore, this research suggests that online retailers can start the RFID system adoption process from the inventory management, access control security system, and logistics and tracking functions, and from there assist the original workflow to supersede these tasks in the long term.

## REFERENCES

1. Agarwal, R. and Prasad, J. (1999). Are individual differences germane to the acceptance of new technologies?, *Decision Sciences*, 30(2), pp. 361-391.
2. Agarwal, R., and Prasad, J. (1997). The Role of Innovation Characteristics and Perceived Voluntariness in the Acceptance of Information Technologies, *Decision Science*, 28(3), pp.557-582.
3. Ajzen, I. (1985). From intentions to actions: A theory of planned behavior. In J. Kuhl & J. Beckman (Eds.), *Action-control: From cognition to behavior*. pp. 11-39. Heidelberg: Springer.
4. Ajzen, I., & Fishbein, M. (1980). Understanding attitudes and predicting social behavior, *Englewood Cliffs, NJ*: Prentice Hall.
5. Bertrand, M., & Bouchard, S. (2008). Applying the Technology Acceptance Model to VR with people who are favorable to its use, *Journal of Cyber Therapy and Rehabilitation*, 1(2), pp.200-210.
6. Biglan, A. (1995). *Changing Cultural Practices: A Contextualist Framework for Action Research*. Reno, NV: Context Press.
7. Busselle, R., Reagan, J., Pinkleton, B., and Jackson, K. (1999). Factors affecting Internet use in a saturated-access population, *Telematics and Informatics*, 16(1/2), pp. 45-58.
8. Chau, P. Y. K. and Hu, P. J. H. (2001). Information technology acceptance by individual professional: A model comparison approach, *Decision Sciences*, 32(4), pp. 699-719.
9. Cheeseman, N. and Breddin, R. (1995). Food Retailing in Australia, *Agribusiness Marketing Services Information Series Q195012, Queensland Department Primary Industries*.
10. Chen, L. D., Gillenson, M. L. and Sherrell, D. L. (2002). Enticing online consumers: an extended technology acceptance perspective, *Information & Management*, 39(8), pp. 705-719.
11. Chiu, C. M. (2011). *Exploring Online Repeat Purchase Intentionsl : The Role Of Habit*.
12. Davies, G. (1995). Bringing Stores to Shoppers - Not Shoppers to Stores, *International Journal of Retail and Distribution Management*, 23(1), pp.18-23.
13. Davis, F. D. (1989). Perceived Usefulness, Perceived Ease-of-Use and User Acceptance of Information Technology, *MIS Quarterly*, 13(3), pp. 319-339.
14. Davis, F. D. (1993). User acceptance of information technology: system characteristics, user perceptions and behavioral impacts, *International Journal of Man-Machine Studies*, 138, pp. 475-487.
15. Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1989). User acceptance of computer technology: a comparison of two theoretical models, *Management Science*, 35, pp. 982-1003.
16. Dillman, D. A., (2000). *Mail and Internet surveys: The tailored design method*. (2nd ed.). New York: John Wiley & Sons, Inc.
17. Dolly Wilson. (2012). Fulfillment & Logistics – Delivering what the customer actually ordered, *Posted in Web Experience Management*, eCommerce, on August 8<sup>th</sup>.

18. Dortch, M. E. (2009). Inventory management benefits spur RFID adoption rate, *Search Manufacturing ERP.com.*, Retrieved October 25, from [http://searchmanufacturingerp.techtarget.com/news/article/0,289142,sid193\\_gci1365631,00.html](http://searchmanufacturingerp.techtarget.com/news/article/0,289142,sid193_gci1365631,00.html)
19. Eastin, M. S. (2002). Diffusion of E-Commerce: An analysis of the adoption of 4 E-Commerce activities, *Telematics and Informatics*, 19, pp. 251-267.
20. Expert Barcode & RFID, Inc. 2009, Retrieved July 20, 2010 from <http://www.expertbarcode.com/autotech.htm>
21. Fishbein, M. (1963). An investigation of the relationships between beliefs about an object and the attitude toward that object. *Human Relations*, 16, pp. 233-240.
22. Fishbein, M., & Ajzen, I. (1975). *Belief, attitude, intention, and behavior: an introduction to theory and research*. Reading, Mass.: Addison-Wesley Pub.
23. Gefen, D. (2003). TAM or just plain habit: A look at experienced online shoppers, *Journal of End User Computing*, 15(3), pp. 1-13.
24. Gefen, D., & Straub, D.W. (1997). Gender difference in the perception and use of e-mail: an extension to the technology acceptance model. *MIS Quarterly*, pp. 389-400.
25. Gefen, D., & Straub, D.W. (2000). The relative importance of perceived ease of use in IS adoption: a study of e-commerce adoption, *Journal of the Association for Information Systems*, 1, pp. 1-28.
26. Hair, L. & R. Anderson, R. Tatham, and W. Black. (2006). *Multivariate Data Analysis*, (six ed.), Englewood Cliffs, NJ: Prentice-Hall.
27. Hayduk, A. L. (1987). *Structural Equation Modeling with LISREL: Essentials and Advances*, Baltimore Johns Hopkins University Press.
28. Hsieh, C. C. (2004). The Study of Applying RFID Technology on the Operation Processes for the Hypermarket, *National Kaohsiung First University of Science and Technology press*, 29.
29. Hsu, C. L., Lu, H. P. (2004). Why do people play online games? An extended TAM with social influences and Flow experience, *Information & Management*, 41, pp. 853-868.
30. Igbaria, M., Guimaraes, T., & Davis, G. B. (1995). Testing the determinants of microcomputer usage via a structural equation model, *Journal of Management Information Systems*, 11(4), pp. 87-114.
31. Igbaria, M., Shayo, C., Olfman, L. (1999). On Becoming Virtual: The Driving Forces and Arrangements, *SIGCPR*, 99, pp. 27-41.
32. Igbaria, M., Zinatelli, N., Cragg, P., & Cavaye, L. M. (1997). Personal computing Acceptance factors in small firms: A structural equation model, *MIS Quarterly*, 21(3), pp. 279-302.
33. Karahanna, D. W. Straub and N. L. Chervany, (1999). Information technology adoption across time: A cross-sectional comparison of pre-adoption and post-adoption beliefs, *MIS Quarterly*, 23(2), pp. 183-213.
34. King, W. R., & He, J. (2006). A meta-analysis of the technology acceptance model, *Information & Management*, 43, pp. 740-755.
35. Lahiri, Sandip. (2006). *RFID Sourcebook*. New Jersey: International Business Machines Press.
36. Leedy P. D. and Ormrod J. E. (2001). *Practical Research: Planning and Design*, 7th Edition.
37. Legris, P., Ingham, J., & Collette, P. (2003). Why people use information technology? A critical review of technology acceptance model, *Information & Management*, 40, pp. 191-204.
38. Liao, S., Shao Y. P., Wang, H. and Chen, A. (1999). The adoption of virtual banking: An empirical study, *International Journal of Information Management*, 19, pp. 63-74.
39. Mackie, G. (1996). Ending footbinding and infibulation: A conventional account, *American Sociological Review*, 61, pp. 999-1017.
40. Montano, D. E., & Kasprzyk, D. (2002). *Theory of Reasoned Action and Theory of Planned Behavior*. In K. Glanz, B. K. Rimer & F. M. Lewis (Eds.), *Health behavior and health education: theory, research, and practice* (3th ed., pp. 67-98). San Francisco: Jossey-Bass.
41. Moore, G. C. and Benbasat, I. (1991). Development of an Instrument to Measure the Perceptions of Adopting an Information Technology Innovation, *Information Systems Research*, 2(3), pp. 192-222.
42. Murphy, C. (2005). Real-World RFID: Wal-Mart, Gillette, And Others Share What They're Learning. *Information Week*. Retrieved August 08, 2009, from <http://www.informationweek.com/news/mobility/RFID/showArticle.jhtml?articleID=163700955>
43. Nesbary, D. K. (2001). *Survey research and the World Wide Web*, Boston, MS: Allyn and Bacon.
44. Olson, J. R., and Boyer, K. (2003). Factors influencing the utilization of Internet purchasing in small organizations, *Journal of Operations Management*, 21(2), pp. 225-245.
45. Ong, C. S., Lai, J. Y., & Wang, Y. S. (2004). Factors affecting engineers' acceptance of asynchronous e-learning systems in high tech companies, *Information & Management*, 41, pp. 795-804.
46. Palmer, A. (2004), *Introduction to Marketing: Theory and Practice*, Oxford University Press.
47. Paludan, P. J. (2012). Who needs Privacy? - The Future of Online Shopping. *Delivering Tomorrow dialogue on future trends*. [Online] Available from :<http://www.delivering-tomorrow.com/who-needs-privacy-the-future-of-online-shopping.html>
48. Premkumar, G. and M. Potter. (1995). *Adoption of Computer Aided Software Engineering (CASE) Technology: An Innovation Adoption Perspective*. Database, 26 (2&3(May/August)), pp.105-123.
49. Premkumar, G., Ramamurthy, K. and Nilakanta, S. (1994). Implementation of Electronic Data Interchange: An innovation diffusion perspective, *Journal of Management Information Systems*, 11(2), pp. 157-186.
50. Regan, K. (2002). Is the best shopping deal really online?, *E-Commerce Times*. [Online] Available from : <http://www.ecommercetimes.com/perl/story/17690.html>
51. Rogelberg, S. G., & Luong, A. (1998). Nonresponse to Mailed surveys: A review and guide, *Current Directions in Psychological Science*, 7, pp. 60-65.
52. Rogers, A. (2003). *What is the difference? a new critique of adult learning and teaching*, Leicester: NIACE.
53. Rogers, E. M. (1983). *Diffusion of Innovations, 3rd edition*. New York, NY: The Free Press.
54. Rogers, E. M. (1995). *Diffusion of Innovation, 4th Ed.*, The Free Press, New York.
55. Rosenbloom, B. (1999). *Marketing Channels*, 6th ed., The Dryden Press, Orlando, FL, pp. 688.
56. Sabbaghi, A., & Vaidyanathan, G. (2008). Effectiveness Supply Chain Management: Strategic values and Challenges, *Journal of Theoretical and Applied Electronic Commerce Research*, 3(2), pp. 71-81.
57. Sosa, R and Gero, J. S. (2007). Complexity measures as a basis for mass customisation of novel designs, *Environment and Planning B- Planning & Design*, 35(1), pp. 3-15.
58. Taiwan Network Information Center. (2012). A Survey of Broadband Usage in Taiwan.
59. Taylor, S., & Todd, P. (1995). Decomposition and crossover effects in the theory of planned behavior: A study of consumer adoption intentions, *International Journal of Research in Marketing*, 12(2), pp. 137-156.
60. Tornatzky, L. G. and Klein, K. J. (1982). Innovation Characteristics and Innovation Adoption-Implementation: A Meta-Analysis of Findings, *IEEE Transactions on Engineering Management*, 29(1), pp. 28-45.
61. Transport Intelligence Ltd., (2012). *E-retailing - An Exciting Opportunity for the Logistics Sector*.
62. Truman, G. E., Sandoe, K. and Rifkin, T. (2003). An empirical study of smart card technology, *Information & Management*, 40(6), pp. 591-596.
63. Venkatesh, V. (1999). Creation of Favorable User Perceptions: Exploring the Role of Intrinsic Motivation, *MIS Quarterly*, 23, pp. 239-260.
64. Venkatesh, V., & Davis, F. D. (2000a). A model of the antecedents of perceived ease of use: Development and test, *Decision Science*, 27(3), pp. 41-481.
65. Venkatesh, V., & Davis, F. D. (2000b). A theoretical extension of the technology acceptance model: four longitudinal field studies. *Management Science*, 46, pp. 186-204.
66. Venkatesh, Viswanath. and Davis, Fred. (2000). A Theoretical Extension of the Technology Acceptance Model: Four Longitudinal Field Studies, *Management Sciencn*, 46(2), pp. 186-204.

67. Victoria Jen, (2012). Taiwan's retailers target customers through online shopping, *Channel News Asia's Taiwan Correspondent*.
68. Wallen, N. E. and Fraenkel, J. R. (2001). *Educational research: A guide to the process (2nd ed.)*, Mahwah, NJ: Lawrence Erlbaum Associates Publishers.
69. Wang, X. M. (2011). *Speech on the Com-mendatory Conference of the Three-Year-Planning for Hunan Urban Wastewater Infrastructure Construction*, 26 January.
70. Wang, Y. W., Meister, D., and Wang, Y. (2008). Relative Advantage and Perceived Usefulness: The Adoption of Competing ICTs. *DIGIT 2008 Proceedings*, Paper 6.
71. Wang, Y. W., Meister, D., and Wang, Y. (2011). Reexamining Relative Advantage and Perceived Usefulness: An Empirical Study. *IJCTE*, pp. 46~59



## **REQUEST FOR FEEDBACK**

**Dear Readers**

At the very outset, International Journal of Research in Commerce, IT & Management (IJRCM) acknowledges & appreciates your efforts in showing interest in our present issue under your kind perusal.

I would like to request you to supply your critical comments and suggestions about the material published in this issue as well as on the journal as a whole, on our E-mail [infoijrcm@gmail.com](mailto:infoijrcm@gmail.com) for further improvements in the interest of research.

If you have any queries please feel free to contact us on our E-mail [infoijrcm@gmail.com](mailto:infoijrcm@gmail.com).

I am sure that your feedback and deliberations would make future issues better – a result of our joint effort.

Looking forward an appropriate consideration.

With sincere regards

Thanking you profoundly

**Academically yours**

Sd/-

**Co-ordinator**

## **DISCLAIMER**

The information and opinions presented in the Journal reflect the views of the authors and not of the Journal or its Editorial Board or the Publishers/Editors. Publication does not constitute endorsement by the journal. Neither the Journal nor its publishers/Editors/Editorial Board nor anyone else involved in creating, producing or delivering the journal or the materials contained therein, assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information provided in the journal, nor shall they be liable for any direct, indirect, incidental, special, consequential or punitive damages arising out of the use of information/material contained in the journal. The journal, nor its publishers/Editors/Editorial Board, nor any other party involved in the preparation of material contained in the journal represents or warrants that the information contained herein is in every respect accurate or complete, and they are not responsible for any errors or omissions or for the results obtained from the use of such material. Readers are encouraged to confirm the information contained herein with other sources. The responsibility of the contents and the opinions expressed in this journal is exclusively of the author (s) concerned.

## ABOUT THE JOURNAL

In this age of Commerce, Economics, Computer, I.T. & Management and cut throat competition, a group of intellectuals felt the need to have some platform, where young and budding managers and academicians could express their views and discuss the problems among their peers. This journal was conceived with this noble intention in view. This journal has been introduced to give an opportunity for expressing refined and innovative ideas in this field. It is our humble endeavour to provide a springboard to the upcoming specialists and give a chance to know about the latest in the sphere of research and knowledge. We have taken a small step and we hope that with the active co-operation of like-minded scholars, we shall be able to serve the society with our humble efforts.

### *Our Other Journals*

