







THE SECOND INTERNATIONAL CONFERENCE ON SCIENTIFIC, ECONOMIC AND SOCIAL ISSUES

DIGITAL TRANSFORMATION, COOPERATION AND GLOBAL INTEGRATION IN THE NEW NORMAL



TABLE OF CONTENT

APPLICATION OF TECHNOLOGY AND BIG DATA IN THE FIELDS OF FINANCE, ACCOUNTING AND AUDITING IN THE CONTEXT OF GLOBALIZATION

BANK RUN AND SILICON VALLEY BANK	1
Lam Dang Xuan Hoa, Ho Minh Khoa, Huynh Vo Nhat Linh	1
BIG DATA AND INTELLECTUAL PROPERTY RIGHTS	14
Le Thi Minh, Vo Trung Hau	14
THE EFFICIENCY OF THE INTERNAL CONTROL SYSTEM IN RISK MANAGEMENTHE NAM A COMMERCIAL JOINT STOCK BANK	
Truong Thanh Loc, Tran Ngoc Thanh	23
VIETNAM - AUSTRALIA ECONOMIC AND TRADE COOPERATION IN THE NORMAL: OPPORTUNITIES AND CHALLENGES FOR VIETNAMESE INVESTORS	
Nhu Nguyen Phuc Quynh*, Anh Nguyen Thi Nguyet, Duy Nguyen Anh	30
IMPACTS OF CREDIT GROWTH AND CREDIT RISK ON THE PROFIT OF VIETNA STOCK COMMERCIAL BANKS	
Dao Le Kieu Oanh*, Tran Thi Huong Ngan	43
FACTORS AFFECTING CUSTOMERS' DECISIONS TO USE E-BANKING AT JOIN' COMMERCIAL BANKS IN HO CHI MINH CITY	
Nguyen Duy Khanh ¹ , Pham Quoc Tham ²	57
HOW CHINA_USA POLITICAL TENSIONS AFFECT STOCK MARKET RETURN O AND THE USA? A QUANTILE VAR CONNECTEDNESS APPROACH	
Hao Wen Chang ¹ , Tsangyao Chang ² and Mei-Chih Wang ³	70
BANKING HUMAN RESOURCES BEFORE THE DEVELOPMENT OF ARTINTELLIGENCE AI	
Nguyen Huynh Chi	92
IMPROVE THE QUALITY OF TRAINING THROUGH IMPROVEMENT OF ST TESTING AND ASSESSMENT – CASE IN ACCOUNTING BRANCH, UNIVERSE ECONOMICS AND FINANCE	SITY OF
Thuy Thi Ha	102
ACTIVITIES OF DIGITAL TRANSFORMATION IN VIETNAMESE COMMERCIAL AN OVERVIEW DURING THE COVID-19 RECOVERY PERIOD	
Nguyễn Thị Quỳnh Châu, Đào Lê Kiều Oanh	109
OPPORTUNITIES AND CHALLENGES FOR VIETNAM IN ATTRACTIVE FDI IN MINIMUM CORPORATE TAX IMPLEMENTATION	
Ngo Hoang Thong	117

DIGITAL ECONOMY IN VIETNAM, TRENDS AND POTENTIABILITY

DEVELOPING SMART HOME MODEL FOR APARTMENTS IN HO CHI MINH CITY BASI ON INTERNET OF THINGS (IoT) TECHNOLOGY1	
Dang Thanh Thuy ¹ , Nguyen Thanh Dien ² 1	
TRANSPARENCY OF ACCOUNTING INFORMATION OF CONSTRUCTION ENTERPRIS IN HO CHI MINH CITY – CASE STUDY OF APPLICATION OF ACCRUAL ACCOUNTING1 Truong Thanh Loc ^{1*} , Pham Thi Yen Nhi ²	193
FACTORS AFFECTING THE QUALITY OF FINANCIAL STATEMENTS OF MANUFACTURING ENTERPRISES IN HO CHI MINH CITY	
Truong Thanh Loc*, Dang Nguyen Tuong Han, Nguyen Ngoc Mai Phuong, Nguyen Thi Quy	
Huong2	20 /
THE CRITICAL FACTORS OF COLLEGE STUDENTS' INTENTION TO USE METAVER TECHNOLOGY FOR SUBJECTS RELATED TO IMPORT-EXPORT LEARNING2	
Van Thuy Nguyen Ho, Chau The Huu, Luan Thanh Nguyen*2	221
CONSUMER PERCEPTION ABOUT THE SUSTAINABILITY COMMITMENT OF LUXUI BRANDS IN VIETNAM AND CHINA MARKETS2	
Tran Minh Tu ¹ 2	233
INFLUENCE OF WOM AND EWOM IN MAKING DECISION BUYING GOODS2	247
Doan Anh Tu ¹ , Kim Phi Rum ² , Nguyen Pham Hai Ha ³ 2	
DIGITAL ECONOMY AND DEVELOPMENT POTENTIAL IN VIETNAM2 Hoang Thi Chinh, Nguyen Hoang Phan2	
noang Thi Chinii, Nguyen noang rhan	23 /
BLOCKCHAIN APPLICATION IN MODERN LOGISTICS: INTERNATIONAL EXPERIENCE AND SOME RECOMMENDATIONS FOR VIETNAM	
Nguyen Nu Tuong Vi2	266
FACTORS AFFECTING THE DEVELOPMENT OF THE DIGITAL ECONOMY IN VIETNAL	
Vo Tien Si2	272
LEGAL FRAME FOR THE OPERATION OF THE REAL ESTATE BUSINESS UTILIZING TO BLOCKCHAIN PLATFORM IN VIETNAM	
La Thi Khanh Linh	20/

DIGITAL TRANSFORMATION – COOPERATION – GLOBAL INTEGRATION IN BUSINESS

FACTORS INFLUENCING BUSINESS ACCEPTANCE OF INDUSTRY 4.0 TECHN APPLICATIONS IN DONG NAI PROVINCE	
Thanh-Thu Vo*, Minh-Huong Tang	291
DIGITAL ORIENTATION, INNOVATION CAPABILITY AND FIRM PERFORMATION PROPOSAL RESEARCH MODEL	
Nguyen Van Hau	298
PREDICTION OF STUDENT'S BEHAVIORAL INTENTION TO USE SMART LE. ENVIRONMENT: A COMBINED MODEL OF SELF-DETERMINATION THEOR TECHNOLOGY ACCEPTANCE	Y AND
Nguyen Thi Hai Binh ¹ , Dao Y Nhi ² , Nguyen Thanh Luan ³ , Dang Quan Tri ⁴	309
THE PEDAGOGICAL IMPACT OF GRAMMARLY ON EFL WRITING COMPETEN EMPIRICAL INVESTIGATION IN HIGHER EDUCATION CONTEXT. Nguyen Thi Hong Lien ¹ , Nguyen Truong Gia Minh ² , Nguyen Ngoc Vu ^{3*}	323
FACTORS AFFECTING PURCHASING DECISION OF THE YOUTH ON TIKTOK	
Ngoc Pham ¹ , Thanh Cong Tran*	
FACTORS AFFECTING OCCUPATIONAL SAFETY BEHAVIORS OF WORKERS PRODUCTION AT CU CHI POWER COMPANY	
Minh Luan Le, Thi Trang Tran	345
CORPORATE SOCIAL RESPONSIBILITY AND EMPLOYEES' ORGANIZA CITIZENSHOP BEHAVIOUR	
Nguyen Xuan Hung ¹ , Ha Le Thu Hoai ¹ , Nguyen Huu My Truc ^{2&3} , Pham Tan Nhat ^{2&3}	355
THE INNOVATION CAPACITY - THE ROLE OF LEADERS OF SMALL AND MENTERPRISES IN HO CHI MINH CITY, VIETNAM	
Huynh Nhut Nghia	365
PEOPLE'S THOUGHTS ON THE IMPACT OF ARTIFICIAL INTELLIGENCE ON BU	
Ton Nguyen Trong Hien, Bui Tuyet Anh	
FACTORS AFFECTING BRAND SWITCHING INTENTION IN THE CONTEXT OF EDUCATION IN VIETNAM	
Ly Dan Thanh, Nguyen Phu Quoi, Tran Hoang Nam, Vo Hong Son, Nguyen Ngoc Thuy Tien	382
ENHANCE THE DIGITAL COMPETITIVENESS	398
Tran Quang Canh, Hoang Thi Chinh	398

ASSESSING PATIENT SATISFACTION (BRAND) AFTER THE COVID-19 ITHU DUC CITY HOSPITAL	
Nguyen Hoang Dung 1*, Nguyen Huynh Bao An 2, Van Phuong Trang 2	408
INDUSTRIAL AND HUMAN RESOURCES FORM THE FOUNDATION FOR IS SUSTAINABLE ECONOMIC DEVELOPMENT	
Hoang-An Nguyen	417
IMPACT OF ORGANIZATIONAL FAIRNESS ON THE EMPLOYEES' SHARING IN TRAVEL AND TOURISM ENTERPRISES IN HO CHI MINH CITY	
Le Thi Nhu Quynh ^{1,2} , Le Thi Giang ² , Truong Quang Dung ¹	426
THE EFFECT OF PERSONAL MOTIVATION ON THE TACIT KNOWLEI BEHAVIOR OF 5-STAR HOTELS' EMPLOYEES IN HO CHI MINH CITY	
Le Thi Giang, Nguyen Bach Hoang Phung	440
DIGITAL COMPETITIVENESS AND OPERATIONAL EFFICIENCY OF ENTHE DIGITAL ERA: THE CASE OF VIETNAMESE ENTERPRISES	
Diep Nguyen Thi Ngoc ^{1*} , Canh Quang Tran ² , Anh Bach Hoang Ngoc ¹	453
FACTORS INFLUENCING PARENTS' SELECTION OF PRIVATE PRESCH	
Thi-Trang Tran ¹ , Thi-My-Dung Pham ² , Thi-Bich-Diep Le ^{1*}	466

RECOVERY COMMUNICATIONS IN THE TOURISM AND HOSPITALITY INDUSTRY AFTER THE COVID-19 PANDEMIC

DEVELOPING A SPIRITUAL TOURISM DESTINATION IMAGE MEASUREMENT SCALI
OF AN GIANG474
Nguyen Vuong Hoai Thao ¹ , Nguyen Quyet Thang ²
PROSPECTS OF VIRTUAL REALITY TOURISM APPLICATION IN VIETNAM TOURISM PROMOTION
Nguyen Thi Hong Ha, Pham Thi Huong Giang
PERSONALIZATION TRAVEL TRENDING IN HO CHI MINH CITY IN THE CONTEXT OF POST COVID-19
Duong Bao Trung
IMPACTS OF MEDIA ON CUSTOMERS' DECISION TO CHOOSE FOOD AND BEVERAGI SERVICES POST THE COVID-19 PANDEMIC51
Nguyen Thi Bich Van51
DIGITAL TRANSFORMATION APPLICATION TO PROMOTE THE RECOVERY AND DEVELOPMENT OF INBOUND TOURISM IN HO CHI MINH CITY52
Tran Trong Thanh
VIETNAM TOURISM AFTER COVID-19 PANDEMIC52
Nguyen Hoang Phan ¹ , Hoang Thi Chinh ² 52
NAVIGATING THE EVOLVING LANDSCAPE OF SOCIAL MEDIA DATA MINING ANI PRIVACY53
Pham Thai Hien53
THE CORRELATION BETWEEN STUDENT SELF-REPORTED GENERAL WELL-BEING AND PERCEIVED SUPPORT FROM FRIENDS, TEACHERS, AND UNIVERSITY54:
Virginia Kelsey ¹ , Đăng Thi Mai Ly ^{2*} , Nguyễn Anh Khoa ² , Nguyễn Văn Tường ² 54:

DIGITAL VERSUS NON- DIGITAL

١:
6
6
G 4
4
A
0
0
S
7
7

CHALLENGES FACED BY TEACHERS IN NON-TRADITIONAL EDUCATION

COMPETENCE SCALE FOR UNIVERSITY LECTURERS	PROPOSE AN ONLINE TEACHING O
596	
en596	Duong Thi Kim Oanh*, Dang Thi Dieu Hier
G MANAGEMENT SYSTEMS (LMSS) BY FACULTY	EXAMINE USAGE OF LEARNING
OMICS (UEF) AND FINANCE WITH EXPANDED	STAFF AT UNIVERSITY OF ECONO
TAM)608	TECHNOLOGY ACCEPTANCE MODEL (T
ach Tran Huy608	Ha Truong Minh Hieu, Ngo Minh Hai*, Ma

DIGITAL TRANSFORMATION AN INDISPENSABLE EVOLUTION FOR SUSTAINABLE CORPORATES

FACTORS AFFECTING THE APPLICATION OF STRATEGIC MANAGEMENT ACCOUNTING AT MANUFACTURING ENTERPRISES IN BINH DUONG PROVINCE
Truong Thanh Loc ¹ *, Nguyen Thi Thanh Truc ² 618
HRM DIGITAL TRANSFORMATION: TAKING A ROAD OF SUCCESSION PLANNING629
Trương Phan Hoàng Anh, Giang Ngọc Anh629
THE IMPLICATION OF CONTACLESS SERVICE AS A TOOL TO IMPROVE CUSTOMER
REVISIT INTENTION
Linh, Nguyen Duy Yen*640
TOURISM BRAND LOVE IN THE DIGITAL AGE: THE ROLE OF ONLINE TOURIST EXPERIENCES, TOURIST-BRAND RELATIONSHIP QUALITY AND SUSTAINABILITY651
Thanh Nguyen Ngoc Le651
CONDUCTING FOCUS GROUPS IN CROSS-CULTURAL SCHOLARSHIP OF TEACHING AND LEARNING (SoTL): A COMPARATIVE CASE STUDY662
Punithan Moganathas ¹ , Jenny Hill ² , Andy VM. Kok ² , Matt Barr ² , Ruffin Relja ^{2*} , Philippa Ward ² , Duong Tran Quang Hoang ³ , Quynh Phuong Tran ³
LEVERAGING DIGITAL TRANSFORMATION FOR SUSTAINABLE CORPORATE EVOLUTION IN VIETNAM
Nguyen, Tan Dat ¹ , Le, Dinh Thang ²

INFORMATION TECHNOLOGY AND APPLICATIONS

FB-PROPHET MODEL FOR TIME SERIES FORECASTING IN SALES	691
Thanh Cong Tran	691
USING AI CODE IN C# PROGRAMMING	698
Nguyen Ha Giang	698
DETERMINANTS OF CONTINUANCE USAGE INTENTION OF MOBILE FOOD ORDERING APPLICATIONS (MFOAS) AMONG VIETNAMESE USERS: THE MEDIATING ROLE OF SATISFACTION	E-
Lam Hoang Phuong ^{1*} , Nguyen Thi Kim Lien ² , Tien Hung Nguyen ³ , Vinh Long Nguyen ⁴	705
DECODING MARKETING INSIGHT: INSIGHT FROM OUTSIDE	718
Hoàng Thị Hằng, Trần Thành Công*	718
DIGITAL DISRUPTION AND DATA SECURITY: HOW FINTECH IS RESHAPING BANKING	r724
Hoàng Văn Hiếu, Trần Ngọc Thiên Ngân	724

TRENDS AND ISSUES IN ENGLISH LANGUAGE EDUCATION AND RESEARCH

EFL LEARNERS' ATTITUDES AND LEARNING ENGAGEMENT IN COMMUNIC GAME-BASED GRAMMAR TEACHING	
Nguyen Thi Thanh Huyen ¹ , Tran Quoc Thao ²	
APPROACHES TO TEACHING L2 LISTENING:	749
CLOSING THE GAP BETWEEN REAL-LIFE AND CLASSROOM-BASED LISTENING .	
DEFINING ROLES OF STUDENT ENGAGEMENT IN THE 21ST CENTURY LANCED CLASSROOM	
Ho Xuan Tien, Duong My Tham	755
EFL STUDENTS' ATTITUDES AND LEARNING INVESTMENT IN PORTFOLIO - I ENGLISH WRITING LEARNING: A LITERATURE REVIEW	
Ly Gia Huy ¹ , Tran Quoc Thao ²	763
EXPLORING EFL LEARNER IDENTITIES IN PROJECT-BASED LANGUAGE LEARNI A HIGH SCHOOL IN AN GIANG PROVINCE	
Nguyen Hong Thien ¹ , Tran Quoc Thao ²	774
THE VALUES OF SYNTACTIC COMPLEXITY IN ACADEMIC WRITING: A LITERAREVIEW	
THE ISSUE OF AMBIGUITY IN THE ENGLISH LANGUAGE Nguyen Dinh Tuan	
RESEARCH PERSPECTIVES ON JUNIOR HIGH SCHOOL EFL STUDENTS' MOTIVAT ENGLISH LANGUAGE LEARNING	
Huynh Thanh Nhon ¹ , Tran Quoc Thao ²	812
EXPLORING THE INFLUENCE OF WRITING ANXIETY ON VIETNAMESI UNDERGRADUATES' WRITING PERFORMANCE: A QUANTITATIVE STUDY	
Nguyen Ngoc Nguyen, Nguyen Hoang Phan	821
THE APPLICATION OF THE "FLIPPED CLASSROOM" MODEL IN TEACHING ENGLE THE VIETNAMESE UNIVIVERSITY EDUCATION ENVIRONMENT	
THE USE OF RESOURCE MANAGEMENT STRATEGIES IN EFLFLIPPED CLASSR	
Nguyen Quynh Thao Vy ^{1,*} , Duong My Tham ²	
INSIGHTS INTO ENGLISH MAJOR STUDENTS' USE OF PHRASAL VERBS IN ACAI WRITING	
Do Thi Thanh Thuy Tran Quoc Thao	860

LAW IN THE CONTEXT OF INTERNATIONAL INTEGRATION

LEGALISING INTELLECTUAL PROPERTY INFRINGEMENTS IN RUSSIA – A WAR TACTIC IN THE CONTEXT OF RUSSIA'S INVASION OF UKRAINE869
Bui Thi Hong Ninh*869
MODEL OF ASSET REGISTRATION WORLDWIDE AND LESSONS FOR VIETNAM IN IMPROVING ASSET REGISTRATION LAWS880
Vu Anh Sao ^{1,2} , Nguyen Thi Xuan Mai ² 880
LEGAL ISSUES ARISING FROM THE DEVELOPMENT, IMPLEMENTATION, AND USE OF ARTIFICIAL INTELLIGENCE (AI) - INTERNATIONAL EXPERIENCES AND LESSONS FOR VIETNAM887
Le Hoang Minh Huy*, Nguyen Thi Thu Ha, Dao Trong Duc, Ky Dieu Linh, Bui Thi Thuy Linh, Nguyen Nam Trung
SOUTH KOREA'S EXPERIENCES ON PROPERTY REGISTRATION LAW - LESSONS FOR VIETNAM896
Vu Anh Sao, Pham Huynh Bao Oanh896
THE RISE OF REMOTE WORK: LEGAL CHALLENGES AND IMPLICATIONS FOR EMPLOYMENT LAW IN VIETNAM903
Nguyen Thi Xuan Mai ¹ , Nguyen Thi Ngoc Loan ² 903
CHALLENGES AND RECOMMENDATIONS FOR THE LEGAL FRAMEWORK IN THE EMERGING AGE OF ARTIFICIAL INTELLIGENCE910
Nguyen Thi Thu Trang910
THE IMPACTS OF GLOBAL MINIMUM TAX ON FOREIGN DIRECT INVESTMENT (FDI) CORPORATIONS IN VIETNAM921
Trần Ngọc Thanh ¹ 921
CROSS-BORDER E-COMMERCE ACTIVITIES AND TAX MANAGEMENT ISSUES933
Le Huynh Phuong Chinh, Ngo Thi Khanh Linh, Pham Ngoc Lan Anh
EXPERIENCE IN KOREA AND CHINA ON TAX MANAGEMENT FOR CROSS-BORDER E-COMMERCE ACTIVITIES941
Duong Anh Son ¹ , Tran Vang Phu ² 941
LEGAL PERSPECTIVE ON REGULATIONS RALATED TO PERSONAL INCOME TAX WHEN EARNING INCOME THROUGH E-COMMERCE PLATFORMS IN VIETNAM, TAKING THE CASE OF INDIVIDUALS DOING BUSINESS THROUGH TIKTOK APPLICATION946
Nguyen Duc Tri ¹ , Hoang Minh Châu ² 946
THE COMPATIBILITY ON THE SCOPE OF MUTUAL LEGAL ASSISTANCE (MLA) IN CRIMINAL MATTERS AND THE CONDITIONS OF REFUSAL MLA IN CRIMINAL MATTERS BETWEEN VIETNAMESE LAW AND INTERNATIONAL TREATIES WHICH VIETNAM HAS SIGNED.

Pham Huynh Bao Oanh	956
TAX POLICY FOR E-COMMERCE OF COUNTRIES IN THE WORLD RECOMMENDATIONS TO VIETNAM	967
Tigayon Thaini Minin Chaini, Ta Tin Yan Zini, Thain Zain Tan Ma	
LEGAL REGULATIONS FOR ENTERPRISE OBLIGATIONS TO PROVIDE INFORM	ATION
ON E-COMMERCE PLATFORM	974
Truong Kim Phung*, Nguyen Hoang Chuong	974
"ROBOT TAX" – RECOMMENDATIONS FOR VIETNAM	981
Gian Thi Le Na, Pham Phuong Doanh	981
WTO APPELLATE BODY REFORM IN THE CONTEXT OF ESCALATING GEOPOLI	ITICAL
TENSIONS	
Nguyen Nam Trung	988

IMPACTS OF STATE OWNERSHIP AND BUSINESS CHARACTERISTIC	CS ON	TAX
AVOIDANCE: EVIDENCE IN VIETNAM		128
Huyen Ngoc Nguyen, Thanh Dan Bui		128
RUSSIA'S IMPACTS AND SCENES ON BEING BANNED FROM SWIFT		143
Lam Dang Xuan Hoa 1, Phan Ngoc Anh 2		143
THE ROLE OF ACCESS TO FINANCE AND THE ENTREPRENEURIAL IN YOUNGERS IN THE SOUTHWESTERN PROVINCE, VIETNAM		
Vu Truc Phuc*, Nguyen Dang Hat, Nguyen An Phu, Dao Le Kieu Oanh		151

NAVIGATING THE EVOLVING LANDSCAPE OF SOCIAL MEDIA DATA MINING AND PRIVACY

Pham Thai Hien

Ho Chi Minh City University of Economics and Finance (UEF) hienpt@uef.edu.vn

Abstract

This article explores the concept of social media data mining, focusing on the collection methods and the purposes for which this information is used. While social media data mining can benefit corporations and institutions, it raises concerns about privacy implications for users. The essay argues that privacy in the online realm is increasingly unachievable due to the business models of social media platforms and users' passive involvement in data collection. Existing literature suggests that while users are considerably aware of their privacy on social media, current practices still limit their ability to control personal data shared on online environment. This article emphasizes the need for implementation of privacy protection measures to address the challenges posed by algorithms on social media platforms. By navigating these complexities, we can foster a social media landscape that respects privacy rights while harnessing the benefits offered by algorithmic systems.

Keywords: algorithms; data mining; privacy; social media; surveillance

The advent of social media has had a profound impact on the modern world. In the past two decades, there has been an explosion in the use of social media platforms. These platforms have enabled people to connect with each other in new and unprecedented ways, and have had a significant impact on the way we communicate, consume news, and participate in civic life. However, as they become an essential part of daily life, there are concerns about the problems that occur. Mining data, as a part of social media, is one of the biggest matters. Kennedy, Elgesem and Miguel (2015) explain social media data mining as the way that data is treated after being collected through various social media platforms, which is being analyzed to discover different aspects of information published and used for different purposes. This essay will first look at the concept of mining social media content and how data is being collected, then discover the purposes and uses of this kind of information. It is obvious that social media platforms employ a variety of measures to effectively mine data. While it can benefit corporations in some way, the data mining also has serious impacts on users' privacy. That is, the widespread practice of sharing and collecting data has made privacy a less viable concept in the era of social media.

Mining social media data in everyday context

In order to fully understand the data mining process, this section looks at the data tracking practices that are being commonly used. Kennedy (2012) stated that mining data is the result of different types of personal information that are made available on social media. Indeed, these are the key elements that lead to the growth of mining data: the number of social media, the vast amount of data and their lower-cost, easy accessibility (Kennedy, Elgesem & Miguel, 2015). In fact, social media are currently obtaining users' data in multiple ways and at different levels. The following methods will be put in two types: direct and indirect practices. Direct data collection includes activities performed by social media providers, such as search

engines, tracking tools. Third-party applications constitute an indirect approach to data. Although this type of categorization does not reflect the actual state of mining practices, it helps to concentrate on the most common data collection methods.

On the one hand, tools provided by media corporations are best used by both users and the providers themselves. Algorithms serve an important role in shaping social media experiences and have significant implications for privacy issues. Several studies have explored on the benefits and challenges associated with algorithms in social media activities. The uses of search engines in data mining were investigated by Zimmer (2008) and Leaver (2013). Because of the innovation of technology, these engines possess the ability to retrieve users' past search records in details, which Zimmer (2008) describes as the 'perfect recall'. By this, the providers of these tools are able to determine any individual's browsing behaviours and customize the results that not only match users' needs but also their partners' relevant offers. As a result, users are driven to their targeted advertisements as they planned. Correspondingly, Leaver (2013) conduct further examination on the data mining practices of Facebook and Google. Additionally, the tracking practice, which is now widely available in different forms, is another way to obtain information. Internet users are familiar with the location tracking, which can be easily accessed through a variety types of media. Location-based system integrated applications and platforms (like Google Maps, Facebook, Foursquare, Twitter and Swarm) allows us to detect our exact location, and is extremely useful in finding directions or certain places. Nonetheless, this feature is risky in other ways. Once activated, it will follow and record users' traces. Some apps even automatically broadcast users' location without them being actually active. Criminals can take advantage of this and investigate people's routines to commit thefts or fraud. Along with this form of tracking, activity tracking is even more heavily-manipulated. As noted in previous sections, social media companies own huge databases containing every information gathered from users, and these data are constantly being transmitted between platforms, analysed, compared with different sources in order to produce the best personalized results. On the other hand, as several social media platforms allow connection to other applications, third-parties are also actively participating in mining data (Debatin et al. 2009; Wang, Xu & Grossklags 2011). Facebook users are familiar with the additional applications and games that are available on Facebook. Despite the playfulness that they offer, these apps and games are also retrieving participants' data. Unfortunately, users seem to be unaware of this, and the number of these apps' users are still increasing.

Having the necessary information is crucial in almost any area, especially for research and development. The purpose of collecting data is primarily for knowledge discovery, then for further consideration. In other words, all websites gather people's information and base on them to explore their behaviours and trends. From there, they will shape the browsing experience that matches each person's preference in the future. As mentioned above, social media platforms actively track all users' activities online. All the information is stored in their database and remains in there for later use. In a similar manner, most institutions collect statistics about their consumers' behaviours and habits by investigating social media data. Therefore, they can gain better insights about their customers and other implications of their business. From these data, they can retrieve customer feedback, develop strategies to improve customer experience and promote their products or services as well.

Data collectors can deploy the needed information once it is obtained. There have been studies that investigate the purposes of utilizing social media data. The findings highlight several main purposes, including business (Zimmer 2008; Oboler, Welsh & Cruz 2012) and management (Oboler, Welsh & Cruz 2012; Kennedy & Moss 2015). The first use of these data is for advertising. It is clear that most companies mine data for financial incentives. Researches have shown that the majority of the revenues of giant

corporates like Google and Facebook comes from advertisements, which matches Leaver's statement 'data mining is clearly a core element in the operation of Facebook and Google' (2013, para. 9). In other words, data are 'traded' between social media companies and other institutions. The advancement of technology makes it easier for these businesses to reach their targeted clients through advertisements placed on social media. Based on their browsing logs, each user's social media interface is tailored to match their taste. Advertisements that match their interests and needs are shown. For instance, when people do the online shopping, the system will automatically generate suggestions that are related to their purchasing histories.

Data collection is also used for managerial purposes. From government to organizations, there is a tendency of using social media for more effective management. On professional social media such as LinkedIn, users are encouraged to provide as much information as possible to increase their employability. Companies can rely on the data collected that match their requirements to seek for potential employees. In some cases, employers can inspect applicants' social media profiles before making employment decisions. Similarly, corporations usually adopt social media policies and tend to have access to their employees' online activities to supervise them. In addition, Oboler, Welsh & Cruz (2012, p.15) mention the role of governments 'as a user of data', with the right to access information for lawful reasons. Although there are still debatable and controversial issues regarding the governmental actions, it is noticeable that the data possessed by social media have considerable significance.

Possible negative effects of personal data collection

Given the easy access to a great number of social media, people are continually uploading their data on these sites. While people may enjoy the advantages that social media bring, they might have overlooked the consequences of being 'exposed' online. Collecting and mining data have certain influences on people's lives. Scholars have conducted studies on how the personal data collection can negatively impact social media users. Corporations might argue that mining data is to better understand customers' needs and to improve their services; however, when taken into consideration, the collection of personal information has caused considerable controversy. Users might get overwhelmed by the amounts of advertisements that are being shown to them. Consumers are likely to be drawn in the strategies of marketers and this can lead to false assumptions about the companies' products and services. In fact, bigger companies invest more in advertising to attract more clients, although there is no guarantee that the goods are completely as promoted.

Despite growing concerns over privacy, the data collection process still continues. Social media participants are facing different levels of risks when their data is being constantly gathered and shared. The invasion of users' privacy can negatively affect both their personal and social lives. For example, one feature of Facebook allows users to 'tag' their friends in posts and photos, whether they want to or not. The people who are tagged may be in unpleasant situations if the posts are undesirable. That is to say, people can get involved in adverse circumstances online, regardless of their usual contexts, whether intentionally or not. There have been incidents regarding privacy intrusion on social networking sites, leading to cyberbullying, dismissals, or even worse, suicides. Also, third-party partners are also criticized for 'phishing, and other malicious purposes' beside data mining, according to Debatin et al. (2009, p. 86). Cybercrime nowadays are often committed through means of social media, such as hacking, scams and frauds. This fact calls for higher concern in data privacy.

Users' perspectives of online privacy and data mining

It is hard to define 'privacy' on the Internet, as it depends on people's levels of perception. According to Boyd (2008, p. 18), 'privacy is a sense of control over information, the context where sharing takes place, and the audience who can gain access'. Some people may argue that privacy depends on how much

information that is revealed and can totally be controlled by users. However, studies have unveiled the underlying aspect of online privacy. Researchers identify two types of online privacy: the social privacy and the institutional privacy. Social privacy refers to the amount of information revealed to other connections on social media, while institutional privacy refers to the data being mined by institutions. The fact that users are not cautious enough about institutional privacy are either because they perceive inconsiderable understanding about the threats from social media providers and third-party apps (Kennedy & Moss 2015), or they consider data mining as an actual fact of using free social media services (Young & Quan-Haase 2013; Leaver 2013).

While in the past, Internet users seem to be unconcerned about the risks they may encounter when their personal information are gathered; recent studies have found that people are becoming more aware of their informational privacy nowadays (Burkell et al. 2014). As a result, they apply different methods to protect their own personal information. Nevertheless, Kennedy, Elgesem and Miguel (2015) mention the 'privacy paradox' that exists in social media, which was also well-addressed by other scholars. That is, although Internet users have developed a growing awareness of the privacy risks when participating in the virtual world, their online behaviours reflect the opposite. First, although people are much aware of the privacy threats, they tend to continue disclosing their information. Second, despite knowing that their data are being mined by institutions, they seem to be unconcerned, or knowingly allow it to happen. Young and Quan-Haase's study (2013) suggests that users incline towards the social privacy and express little concern over institutional privacy. These findings consolidate Wang, Xu and Grossklags' statements (2011), that people are less likely to limit their information from third-parties.

In light of users' perspectives on social media privacy, researchers have provided important viewpoints in past studies. In their research to examine social media users' points of views about data mining, Kennedy, Elgesem and Miguel (2015) coin the terms 'known publics' to emphasize the power of leading organizations over social media data and the acceptance of publics on this dominance. The scholars also suggest a movement into 'knowing publics', 'as more active and reflexive agents'. That is, users should not only be the subjects of data mining, but also the ones that have real consent and control over their own information.

How privacy is no longer achievable

In the cyber world nowadays, privacy seems no longer viable. This view is drawn from the findings of previous studies that reflect the current state of online privacy (Viseu, Clement & Aspinall 2007; Boyd 2008; Kennedy & Moss 2015; Kennedy, Elgesem and Miguel 2015), to name only a few. There are multiple reasons for this claim. First, most social media take data mining as part of their business model. They collect data through the services they provide with the permission of users, which is usually called the *informed consent*. When visiting a website or registering to become users, people are usually asked to agree with the terms and conditions of service. The problem is most users either seem to be unconcerned about the consequences or they have no other option rather than agree with them. This means users are giving up their privacy to the social media providers in order to experience the 'free' services (Viseu, Clement & Aspinall 2007; Nissenbaum 2011; Custers 2016). Or, as Debatin et al. (2009, p. 100) suggest, 'perceived benefits of online social networking outweighed risks of disclosing personal information'. Obar & Oeldorf-Hirsch (2018) reinforced this statement in their study, discovering that the majority of users tend to quickly skip terms of service agreements as offered by social media platforms in order to engage with online activities. However, this action raises various issues. Previously, Oboler, Welsh & Cruz (2012) address the problems with the consent people provide social media operators, including how to remove the data when

they do not want to participate in their services anymore, the validity of unintended or false information uploaded. Similarly, Custers (2016) examines different issues with the given consent, stating that users lack serious consideration of privacy policies and suggests 'expiry dates for consent'. Second, people are almost passive in the process of mining data. The data collection has started since they agree to use the services, and it keeps going whether they are actually active or not. Even if they do not wish to continue, their information still remains in the database and in total control of the service providers. Previous literature proves this, as Wang, Xu and Grossklags (2011) state that it is impossible for users to restrict the access of the applications to their personal data. Kennedy & Moss (2015, p.2) reach the same conclusion, which is 'publics are not able to intervene or interact in this process'. That said, since personal data no longer belongs to users, how can they call it 'privacy'? Additionally, while users have the choice to withdraw their personal data from the online realm, given consent in previous online activities also limits users' level of control over them. In fact, due to the persistence and repurposing of data generated by algorithms, more concerns are raised over privacy rights of users (Tucker 2018; Trepte 2020).

The expansion of social media platforms enables the widespread information gathering and sharing on the Internet. This essay has discussed the practice of mining data, which consists of different activities that aim to extract meaningful and useful information from social media. As this kind of data is considered a rich and valuable resource of information and can bring lots of benefits, social media providers and other institutions are employing different methods to collect information from users. Their reasons for data gathering are varied, from user personalization to customer feedback, to further development. While there are undeniable advantages of this type of data collection, the concerns about its impact on privacy cannot be ignored, as privacy has always been one of the key issues on the Internet. In fact, privacy manipulation can have serious consequences on people's lives besides ethical and legal issues. Knowing that, users nowadays perceive a higher level of understandings about social media surveillance, as well as the impact that privacy invasion can have on them. However, the way people participate in social media activities contradict with their concerns. They tend to neglect the threats from privacy violations and keep on sharing information; or just mainly focus on their social privacy and neglect the importance of institutional privacy. These activities lead to the fact that, once personal information is vastly collected and shared, there is no 'privacy' left. Addressing the implications of social media data mining and privacy requires concerted efforts and considerations. Based on the discussions presented, this study suggests further research in the following areas: effective mechanisms for enhancing transparency and control over data collection and usage on social media platforms; practical initiatives to impact users' awareness and behaviors regarding privacy; and measures to enhance current data protection regulations. A more comprehensive study in these domains would contribute to the development of privacy practices for users when engaging in social media activities.

References

Barrett-Maitland, N., & Lynch, J. (2020). Social Media, ethics and the privacy paradox. *Security and Privacy From a Legal, Ethical, and Technical Perspective*. https://doi.org/10.5772/intechopen.90906

boyd, d. (2008). Facebook's Privacy Trainwreck: Exposure, Invasion, and Social Convergence. *Convergence: The International Journal of Research into New Media* Technologies, *14*(1), 13-20. https://doi.org/10.1177/1354856507084416

Burkell, J., Fortier, A., Yeung, L., Wong, C., & Simpson, J. L. (2014). Facebook: Public Space, or Private Space? *Information, Communication & Society*, 17(8), 974-985. https://doi.org/10.1080/1369118X.2013.870591

- Custers, B. (2016). Click here to consent forever: Expiry dates for informed consent. *Big Data & Society*, *3*(1), 1-6. https://doi.org/10.1177/2053951715624935
- Debatin, B., Lovejoy, J., Horn, A., & Hughes, B. (2009). Facebook and Online Privacy: Attitudes, Behaviors, and Unintended Consequences. *Journal of Computer-Mediated Communication*, *15*(1), 83-108. https://doi.org/10.1111/j.1083-6101.2009.01494.x
- Kennedy, H., & Moss, G. (2015). Known or knowing publics? Social media data mining and the question of public agency. *Big Data & Society*, 2(2), 1-11. https://doi.org/10.1177/2053951715611145
- Kennedy, H. (2012). Perspectives on Sentiment Analysis. *Journal of Broadcasting & Electronic Media*, 56(4), 435-450. https://doi.org/10.1080/08838151.2012.732141
- Kennedy, H., Elgesem, D., & Miguel, C. (2015). On fairness: User perspectives on social media data mining. *Convergence: The International Journal of Research into New Media Technologies, 21*(1), 40-58. https://doi.org/10.1177/1354856515592507
- Leaver, T. (2013). The Social Media Contradiction: Data Mining and Digital Death. *M/C Journal*, *16*(2), 6.
- Nissenbaum, H. (2011). A Contextual Approach to Privacy Online. SSRN Electronic Journal. https://doi.org/10.2139/ssrn.2567042
- Obar, J. A., & Oeldorf-Hirsch, A. (2018). The biggest lie on the internet: Ignoring the privacy policies and terms of service policies of social networking services. *Information, Communication & Earpy*; *Society*, 23(1), 128–147. https://doi.org/10.1080/1369118x.2018.1486870
- Oboler, A., Welsh, K., & Cruz, L. (2012). The danger of big data: Social media as computational social science. *First Monday*, *17*(7). http://dx.doi.org/10.5210/fm.v17i7.3993
- Trepte, S. (2020). The Social Media Privacy Model: Privacy and communication in the light of social media affordances. *Communication Theory*, *31*(4), 549–570. https://doi.org/10.1093/ct/qtz035
- Tucker, C. (2018). Privacy, algorithms, and artificial intelligence. In *The economics of artificial intelligence: An agenda* (pp. 423-437). University of Chicago Press.
- Viseu, A., Clement, A., & Aspinall, J. (2004). Situating Privacy Online. *Information, Communication & Society*, 7(1), 92-114. https://doi.org/10.1080/1369118042000208924
- Wang, N., Xu, H., & Grossklags, J. (2011). Third-party apps on Facebook. *Proceedings of the 5th ACM Symposium on Computer Human Interaction for Management of Information Technology CHIMIT* '11.
- Wessels, B. (2012). Identification and the practices of identity and privacy in everyday digital communication. *New Media & Society, 14*(8), 1251-1268. https://doi.org/10.1177/1461444812450679
- Young, A., & Quan-Haase, A. (2013). Privacy protection strategies on Facebook. *Information, Communication & Society, 16*(4), 479-500. https://doi.org/10.1080/1369118X.2013.777757
- Zimmer, M. (2008). The Externalities of Search 2.0: The Emerging Privacy Threats when the Drive for the Perfect Search Engine meets Web 2.0. *First Monday*, *13*(3). http://dx.doi.org/10.5210/fm.v13i3.2136



HO CHI MINH CITY UNIVERSITY OF ECONOMICS AND FINANCE

141 - 145 Dien Bien Phu, Ward 15, Binh Thanh District, HCM City Website: uef.edu.vn - Hotline: (028) 5422 6666 * (028) 5422 5555