Information Technology and Criminal Investigation

S.M.C.T.Siriwardhana Faculty of Information Technology University of Moratuwa Moratuwa, Sri Lanka

Abstract— Information communication technology deals with information systems, there for data storage, data access, data retrieval, data analysis and data intelligent decision making. Then Information communication technology has referred to creation, processing, gathering, storaging, presenting and a dissemination of information and they also processes and devices are enable all are to be done. The disuse of the technology has prepared the ornaments of the enactment and implementations are the cyber laws. Now a days, computers are playing a major type of role in the almost every kind of crimes that are committed. In the Citizens must not be under the impressions that are cyber crimes are vanishing and must realizing with each of passing days, cyberspaces are become a more dangerously. those places to be in where criminals crime roam freely to the executing their criminal intentions encourage by the so-called anonymities that provide of internet . The Paper focuses are on the new legislations which are covering all of the aspects of the Cyber Crime. They should be passed because of the grey areas are the law can be the removed[4].

Keywords—Criminal investigation, justice, Information Technology, Leagal System, Crime.

I. INTRODUCTION

Now a days Information Technology is a very big field in the modern world. That is the use of computers like that Store, Manipulate, Transmit and organize varies types of data[8]. That subject is usually use in business field, economic field, forces and other suitable factors. Generally we call it information and communication technology, information system, information of things etc[8].Human are storing, manipulating retrieving and communicating as they want to include it. Information distribution technologies like television, telephone all electronic media and all printed media. So we can identify the that is very familiar to the modern world system[12].

Then the rule identify the correct and right procedure or behavior in the game like that the introduction of the law[1]. Beside that it is a system of rules that are create around the social or governmental academy[3]. How ever the system of rules are particular state or community validate as regulating the actions of there In the legal system criminal law is the one of main part[3]. Because of that is very serious cause.

Then the legal side it the very important like that this part. Besides that the "criminal investigation" is the main part of the legal system. In the modern world there are many kinds of legal sides. The people use high and new technologies for K.A.Dilini T Kulawansa Department of Computational Mathematics University of Moratuwa Moratuwa, Sri Lanka

that crimes[3]. So legal system must improve their technologies to catch that above crimes. As a example now a days heroin and drugs cheating, data cheating and murders are the large side of criminal parts in the modern world. In U.S.A is the largest data cheating group in the world. That is the large serious cause of country privacy[2],[21]. Besides that heroin and murder causes are also same. In this research I have included that part by using some of research papers, magazines and many other supporters.

II. OVERVIEW OF CRIMINLA LAW AND JUSTICE

Criminal justices are one of the delivery of justice system to these who have dedicated crimes. The system of criminal justice is a kinds of government agencies. Then those institutions whose goals are to identification and touch dislawful individuals are to damage a form of punishment of them. So other kind of goals have included the rehabilitations of accrues are preventing other kind of crimes, the moral of support for these victims. So the primary institutions are many kind of the criminal justice systems are like that

Prosecutions, Police and defense of lawyers,

Then the courses and persons etc[6].

We can see there are mainly three parts In the criminal justice system. Like that

- 1. The department of law enforcement.(military, police etc.)
- 2. Many kinds of courts and all defense lawyers.
- 3. Types of probation agencies(prisons)
 - To maintain the rule of law in society these three type of departments are doing very large part of criminal points.

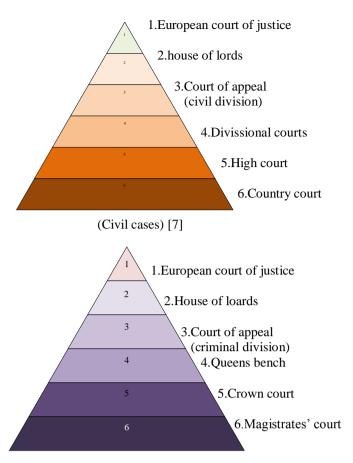
Besides that the courts are the serve as the place of where they disputes were then settled and the justices are administered. All countries must have the varies kind of series of justice systems. Basically we have main two parts of justice system. Like that

1.Sivil matter justices

2. Civil matter justices

Both these two types of justices have the parts different from another. [7].





(Criminal cases) [7]

In modern countries we can saw all these two types of courts. But they are not in common names like that. These names are change as the state wish.

Besides that in the world there we can see some high capacity of criminal crimes. Like that[10].

- Personal crimes- criminal offenses resulting in the harm of another individual.
- Property crimes- interference of other's property.
- Inchoate crime-intended or initiated criminals
- Statutory crimes-related to drugs, traffic, alcohol or other societal.
- Financial crimes –white collar crimes

III. HISTORY OF LAW

History of criminal law and the criminal law begins with the worlds' one and first association. In the past season the people of Sumerians never divide the law in civil or criminal. Firstly they prepare the written law system. Neo, the king of Sumerian have built the oldest written law system which was found early. How ever it never divide the which are the civil and criminal law. [11].

These civil and criminal aspects were not separately analyzed from the detailed conclusions of similarly important guys.

*As a example, it is defined as a tyranny or furtum an adductor. Violence and the Assault are used to hide someone else's property as hacking. The legal liability arising out of the above violations can be waived by paying compensation for financial errors. [11].

Then the first notice about the divide of the law(criminal and civil) can get the England was during the invasion period of NORMANS.

Then the punishment(take care only Europe) for the particular concept of crime came about in the ancient Spanish action Scholastics. According to this concept anguish was brought on a human being to punish the mind for the sake of their crime. That was combined with the "canou-law" and ultimately resulted in the creation of a criminal law free of religious influence.[7]

IV. MEANING OF ABUSE

Now a days in the world there are many kinds of abuse we can see. As a technology world most of people feeling high stress and the release it by doing abuse also. In abuse category sexual abuse is the most capacity abuse in the world. that abuse we can see not only in western countries now a days we can saw that in Asian countries also. Like that Sri Lanka, India, Pakistan, China etc[3]. As an example in Sri Lanka "*Jafna lady abuse, Rathnapura Kotakethana Lady abuse*" One might description about the rape as analogous to the property crime. Because of a rapists the goal by using her body, which her owns without getting her permisson will. It also describe as the violation of the victims' independent bout to the sex.

Besides the women abuse children abuse are also large capacity of criminal crime. Because of rapist do that little person in the society. Less than 18 years. One day these people are the person of society. So in that day they also become a rapist. So that is very dangerous crime. [13],[14].

. Johnson (2004) has defined the children sexual abuse as the any kind of activities with the children before the age limit of legal consent which is for the sexual satisfaction of the adult or a older children. So these activities are including or genital-genital, oral-genital, hand-genital ,genital-rectal, hand-rectal, and hand-breast contact, they showing sexual images and videos to a child or using a child in the production of sexual image and videos . Additionally sexual children abuses has defined from previously is morally incorrect and was not accepted in the society. So the reasons why, because the children were innocent human people, who were vulnerable and did not know about how to understand the right way. So that is the how law labels of children, are as being sexual abuses, and therefore they were victims of crime[13][14].



v. CRIMINAL INVESTIGATION AND PUNISHMENT

Criminal law is a special law. So it different from other law because of as the output of the criminal crimes are very powerful one when committed under a violation. All of crime are completed from the elements which are need for completed crimes. Physical punishment and physical things may be brought about the whipping or groping, but the laws of many states have been penalized from this situation of punishment. There we can see both physical and nonphysical punishment. So people may be arrested under the many kind of reasons. This type of prison times are valid from a day to many years. then the prison punish justice can arrest the any kind of their own properties. How ever most of Middle East countries use the many kind of physical punishments than other European, Asian, American and many other countries. Like that "lapidating, firing to head, dropping the body parts, hanging etc. These Then there are five kind of fundamental elements are valid to be the implementation of the criminal law. They are[10]

- Retribution
- Incapacitation
- Deterrence
- Rehabilitation
- Restitution

Those kind of elements are different from other in the legal system. [10],[11].

> <u>Retribution</u>

"Individuals must pay the result of crime" that is the basic thing of this section. This system was born in the "*Ctalittariyism*"[11].

> <u>Incapacitation</u>

Through this type criminals are commonly expected and pursued to hinder the wellbeing of society. In other words, they would be imprisoned. Then the death penalty and deportation are intended to achieve this idea.

> <u>Deterrence</u>

The basic premise of this one is to acquit him to an offence punishable by criminal offences. Execution in case of proving that a murder has been committed, a death sentence has been given to the accused who committed the murder.

Rehabilitation

This is intended to make one who is a victim a good citizen-accountant. In doing so, he understands the harmful effects of his wrongdoing by preventing the criminal from doing so.

> <u>Restitution</u>

This is to restore the victim to the compensation given or to restore his crime before the crime occurs. As a example, if someone proves to have misused the money

of another persons. The original person has provided the other with the other provision in the legal system to pay such misappropriated amount. [5],[11],[15].

VI. INTERNARTIONAL LAW

The international criminal court in the HAGUE is conduct the detailed and analytical work on the criminal and criminal activities of the most brutal and most violent, which are the depend all around the world. The case of the Nuremberg trials as the source of the modern international criminal law[21].

In these cases guilty leaders of the Nazism were condemned in the genocide in 1998, then the criminal court was established in the Hague. Under the Rome Statute. This was primarily to punish them for the crimes against humanity by leaders and government officials of various states. But all countries are not participate in these cases. Some countries like that Libiya, Yemen, Israel and Iraq.



International criminal court-Hague

VII. FUTURE DIRECTIONS

Criminal investigation and criminal justice are closely related two challenging phenomena. Information technology is a major tool in bringing about this to the right judgment. The utility of this utility has come to understand that information technology can not be solved in the right way by means of the existing methods for dealing with problems that are difficult to expose to information under undeveloped periods. Then there were many instances of judgment[6],[16].

Then in the world the historical and theoretical perceptive mainly recommend the CID (criminal investigation department) of any country. So they have large process of that criminal effects. They techniques of criminal investigation and minimize the criminal effects. In 1892 establishment of the department of police they marked the key point of investigation criminal crimes[25].



An observer with an information technology tactic can use accurate data at all times in criminal justice. DNA Testing is a key practice[19]. There were many instances where the crime scene was resolved with a clear indication in a test station. Scanning technology also contributes to the same. Scanning data accurately describe the actual situation of the event.

The signs of the highway and the appearance of the biodiversity in a crime scene are caught in criminal law. Highlights will help to find the vehicle used to commit a crime and then judge the crime through it. Misrepresentations and biological evidence of a chemical in a crime site are very important[17]. Explanation of the biodiversity analysis of explosive chemicals in the environment used in a crime scene are also key factors in criminal justice[16].

The scanning technology have gained various achievement. Normally various kind of bombs use in crime actions. Now there are scan machines can show by the digital way. What kind of explosive materials contained what the explosive time, how much damage happened and how extinguish etc. this technology improve more directions.

Finger mark observation also rapidly developing[20]. This technology majorly use in the crime determination as we know there is no equal finger marks in the world. Then the world has many classifications of the finger prints. Like that *About 60-70% (loops)

*About 25-35% (whorls)

*About 6-7% (arches)

*About 1-2% (composite)

*(accidentals)[20].

The finger mark observation technique now reached up when the finger mark washed out or blurred normal method useless[20]. In that case we can use newly discovered Luminas scanning method. By this way true abuse case report can provide.

The abuse and crush body scanning technology also have full filled in many ways. The true criminal report can provide by this scanning. By this method seriously crushed body by a criminal action can examine. The weapon or tools, the depth of sows, the sharpness of tools also can observe. The all these evidence can forward to a criminal court.

The DNA technology achieved up to atomic structure experiment of a DNA cells, by using powerful electronic microscope if the DNA cells smashed but atomic structure never decay[19]. Generally the CCTV witness make by using the view of the camera. Nearly using by the criminals' view in the CCTV going to analyses comparing their previous behavior by using ICT software technical system. In that way it is more help to prove the CCTV evidence at a criminal court[22],[24].



In night crime observation now use the UV (Ultra Violet) ray camera[18]. The camera operate by using the soundless drawn craft therefore the criminals do not know that they are observed. It is more useful in a jungle terrorist activity, drug smuggling and on thieves activity. Besides that there isn't any sound or any flasher. So that is a very suitable object for find criminal crimes[23].



VIII.CONCLUSION

With the development of Information Technology, all crime parts were developed automatically. The most of individuals of crime use modern technology to success their crimes. So that is very large problem in now a days. So now I am going to study what are the points they use for that crimes. In this research paper I have include many proposals to minimize that big question.

At last I have shown the comparison tables some are related to the research that use to finish that paper.

Title of the	Aim and	Limitations/	Entropy
			Future
Research	Problems	Challenges	Directions
Paper	Addressed		
01)	Collection of	Data	Introduce
	errors in	protections.	what are the
"Digital	Digital	Limitation	paradigm of
Paradigm"	Paradigm.	of digital	Harvey
	Communicat	paradigm.	collection.
	ion	Paradigm is	Identify
	encounters.	always not	what are the
	Digital	suitable as	main three
	paradigm of	follows.	Diamox case
	Harvey		in New
	collection.		Zealand.
	Main three		
	parts of		
	Harvey		
	Digital		
	Paradigm.		
	Identify the		
	"Diamox" a		
	Case in the		
	New		
	Zealand		
	supreme		
	court		
02)	Carnal		In the future

TABLE 1: SUMMARY OF SOME RELEVANT RESEARCHES



					~ .		
	knowledge	With the	the women	04)	Crime and	busy cultural	minimize the
"CARNAL	is basically	increase of	sexual rape	Crime and	justice part	time people	government
KNOWLED	describe the	modern	causes and	justice	is related to	who doesn't	power by
GE: Rape	crime of	technical	children rape		deal with the	know about	using
from a legal	rape	side there	causes will		legal crime	what are the	information
purview	discussion.	for the many	be increase		and criminal	crime or	automatic
·,	All kind of	kind of rape	automaticall		justice.	justice or	systems. To
	society	causes will	y because of		Discus about	criminals.	notice all
	regard	improve	today		the separate	High class	about things
	always rape	automaticall	technology		things of	murder	around the
	causes are	y. World can	is high than		different	causes some	justice ,
	serious	not stop at	future.		justices and	times hidden	criminals
	crime.	once all type	So in that		different	by	and many
	Woman and	of rapes	section we		period	government	other legal
	children rape	because of	must find a		justices.	power.	things.
	are	technology	very big and		Sensitivenes	power.	tilligs.
	important	is increase	the most		s of crime		
			suitable				
	among them.	day by day.		05)	and justices.	Leale	Hidden
	In England and Wels		solution for that. So in	05) "The feature	Face to the	Lack of	Hidden or
				"The feature	large	consensus	minimize the
	prosecuting		the	of criminal	number of	among the	proposals of
	for offenders		CARNEL	law"	challenges.	varies type	reform even
	are easy		KNOWLAG		Policing,	of	radical.
	consent.		DE he		juries,	practitioners.	Many kind
	Burden of		explain them		judicial		of discussion
	proof of rape		in briefly		power,		received at
	cases and		and		sexual		the
	sexual rape		comfortable.		crimes,		conference
	cases are the				criminal		of
	high serious				responsibiliti		ROBBINA.
	cases.				es and many		
03)	Main Aim is	Old law are	In future		other		
	to use of	not satisfy	direction		categories of		
Cyber Law	empowerme	for the	like that to		criminals.		
and	nt of law to	modern	prepare		Providing		
Information	rape causes	criminals.	legislations		the informal		
Technology"	and	Cyber	to cover any		and formal		
	deterrence to	offenders	kind of		education		
	all criminals.	activity	cyber		which is		
	Then	wrongness.	crimes.		related to the		
	minimize the		Government		criminals.		
	wrongness		must	06)	India is a	Week skills	Property and
	of who make		appropriate	"Criminal	one of cyber	and errors of	data
	the cyber		actions to	justice	rule	lawyers and	protection
	spaces.		easily	system of	published	justice.	security.
	Then old		download	India"	country in	Challenges	Strengthen
	laws not		cyber lay		the world.	of needs and	of data
	suitable for		cover		But cyber	security	security.
	modern		software.		law of India	protection.	Minimizing
	criminals.		Organize the		has not		the Police
	So as a		programs		respond by		investigation
	solution		which are		them selves.		and criminal
	cyber law		minimize the		Many type		errors .
	and		criminals.		of loopholes		
	information				in that legal		
	technology				system.		
	is use for it.				Relevance	<u> </u>	
						•	



r			r		r	r	r
	and				but some are		
	advantages				open for all		
	of				around the		
	information				international		
	technology,				rules like		
	justice and				murders and		
	criminals.				sexual		
08)	Turn in to	irreconcilabl	control and		crimes.		
"Analyzing	the new	e tensions of	determinatio	10)	Basically	Any	Use the
the	schedule of	the GDPR	n all of data	"Criminal	criminal law	property,	modern
technology"	the data	and the	and	law"	is a body of	security and	technology
teennology	protection	block chain	information.	14 vv	law and that	protection	supports.
	and enabling	technologies	Further data		is relates to	are harm to	Like that
	unit. Then	technologies	protection		the crime.	health, threat	
		•	and control				scanners,
	they give the				Then	and harm.	GPS, DNA,
	opportunity		is very		criminal law		CCTV and
	to		dangerous		is proscribes		many other
	collaborate		theme of the		and conduct		things.
	the industry.		data .		perceived as		
	Besides that		processing		the harmful,		
	it full fill the		life cycle. In		threatening		
	aims of		criminal law		and		
	GDPR.		that is the		endangering		
	Decentraliza		very serious		to any		
	tion of the		case of the		property,		
	types of		justices and		protection		
	data. New		criminals.		and safety,		
	mind set				health etc.		
	create the			11)	There we	In busy and	Prepare
	trust full			" Child	cam five	modern	some
	theme in			Sexual	main Abuse	society	specific
	protection			Abuse"	in criminal	children are	rules and
	process.				law. Like	enter that	standard
09)	Discuss	Types of	Get the		that Verbal,	automaticall	way to
"Criminal	about the	citizens and	better		Mental,	y. Parent s	punish
law and	relation	nationality.	solution By		Sexual,	also haven't	abusers.
punishment"	about	As a world	using the		emotional	responsibilit	Besides that
P	criminal	there we can	information		and physical	y of their	build some
	crimes and	found many	systems and		etc. Sexual	•	standard
	their	types of	IOT for		abuse is the	ennaren.	methods for
	punishment	rules like	finding any		most		reporting
	and	that Muslim	solution for		dangerous		those
	prohibitions.	sharia law.	that different		abuse among		criminals.
	How ever	silaria law.	criminals to		them. In		erminais.
	criminal law		finalize one		sexual abuse		
	and crimes				child sexual		
			way to punish.				
	are not		-		abuse is very		
	depend on		As the international		big criminal		
	the				issue.		
	prohibited		law justice		Parents must		
	ground		can		get that		
	level.		minimize the		responsibilit		
	Basically		civil law.		y because of		
	criminal law		Like that		their		
	is depend on		sharia etc.		children.		
	the citizens				Must get the		
	and nations				responsibilit		



	1	1	I		1	1	
	y about the			n in the	DNA to find	DNA	DNA with
	suspected			criminal	the criminal	technology.	the IOT
	injuries of			Justice	cases and	So any cases	system.
	children and			System."	minimize	cannot use	
	never				them. DNA	these	
	neglect those				identificatio	techniques	
	criminals				n in criminal	as follows.	
	and fix				cases.		
	children's			17)	Now a days	In modern	In modern
	mind as			Information	in the	world the	world
	follows.			technology	modern	relationship	information
12)	In the	Some Arabic	Apply for all	security."	world	the market	system daily
"Criminal	applied	countries	kind of		individuals	of the	update the
Law and	justice if	and many	criminal		are using the	technical	new
Developmen	there isn't	other Asian	matters and		high level of	products and	technology
t"	standard	countries not	all accused		social media	social	items for the
	rules	use that kind	get the		and many	medias are	developed
	accused	of criminal	satisfaction		kinds of	dramatically.	technologies
	must	actions in	of from the		information	So their	. So the
	become	100%.	justice as		items in	security is	efficiency
	some issues	Because of	follows.		their daily	very low.	and security
	and un	the use their			life and	That is the	also in high
	satisfaction	religious			official use.	risk of	capacity. So
	actions. As a	rules as they			So some	section.	there isn't
	support both	wish. Like			risks are		risk for the
	left hand and	that Muslim			available for		user.
	right hand	law.			the		
	accused may				individual		
	be				users in that		
	satisfaction.				information		
13) "Crime	Applying the	Crime	focus the		technology.		
prevention."	SCP(Situatio	displacemen	topic on	18) "Crime-	There were	That part	Minimize
1	nal crime	t.	environment	UV and	many	also the high	the risk of
	prevention)		,mental	blood."	common	cost	the
	details to the		situation		factors to	technical	collecting
	information		and many		identify the	part in the	unnecessary
	systems,		other factors		blood at the	criminal	stains in the
	cyber		of the crime		crime	case. Not	crimes. Use
	crimes,		individuals.		situation.	easy to use	that UV
	sexual abuse				Then the	all people.	camera for
	etc.				very quick	1	the here and
14)	Appling the	Politician			and easy		there unclear
"Criminal	basic	effects and			thing to		blood. So
Law- over	situations	many social			identify		that one can
view of	and the	situations			blood is to		give answers
UAE penal	criminal	are some			use that		for the many
law."	situations of	limitations			Ultra Violet		questions in
	the crime	in the law			light.		criminal
	effects.	filed.			6		cases.
15)	UV imaging	Technical	Using ultra	19) "THE	There is no	Damaged	Many crimes
"Reflected	of reflected.	and capital	violet	CELL-	any life	cells and	and many
ultra violet	Ultra violet	issues.	images to	Book"	without	many errors	acts can
imaging."	imaging	100000	the high	2000	cells. And	of cells	solve by
	package.		criminal		just as life	cannot	identificatio
	Puenuge.		crimes.		itself as	identify the	n the cell
16) "DNA	Get the	Cost of the	Combine the		drivers, so	true judicial.	technology.
identificatio	details of	reliance on	details of		are the	a de judiciai.	But arrows
nuclinicatio	actails 01	remainer Oil	uctano 01	L	are the	1	Due unows



forms and	of cells and
functions of	damaged
the cells that	cells clearly
constitute	identify the
life.	high
Scientists	scanning
also can	technologies
scan the	by using
cells by	IOT.
using varies	
types of	
microscopes.	
So by using	
that	
operations	
we can	
minimize	
some	
criminal	
crimes and	
acts.	

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About Author



S.M.Charith Thamranga Siriwardhana. 3rd year undergraduate student of faculty of Information Technology, University of Moratuwa, Sri Lanka. Following the degree program BSc.(Hons) Information Technology and Management.



K. A. Dilini T. Kulawansa Senior Lecturer Department of Computational Mathematics, Faculty of Information Technology, University of Moratuwa., Sri Lanka. Email: dilini_kulawansa@hotmail.com

