

ACADEMIC DISHONESTY IN DISTANCE HIGHER EDUCATION: Challenges and Models for Moral Education in the Digital Era

Mohammad Imam FARISI
Faculty of Education,
Department of Social Studies
Universitas Terbuka,
Surabaya Regional Office,
INDONESIA

ABSTRACT

Today, in the era of open access to digital-based information and communication, one of the biggest challenges in higher education to realize moral education and to build academic culture and integrity is the emergence of academic dishonesty behaviors among academic members. The paper describes academic dishonesty behaviors in Distance Higher Education (DHE) institutions within the context of moral education in the digital era. The paper reviews the results of the research on academic dishonesty behaviors and practices in DHE institutions worldwide; factors which have a very significant role for the emergence of academic dishonesty behaviors and practices. It is also discusses an integrated model of moral education as interdisciplinary strategy in combating academic dishonesty and in promoting academic culture and integrity in DHE.

Keywords: Academic dishonesty, distance higher education, moral education model,

INTRODUCTION

The academic culture of university is characterized by integrity and commitment of academic members to ethics code and morale values in producing scientific works and documents. The University of California (U.C.), Davis Office of Student Judicial Affairs (2008) asserts that academic integrity exists when every academic member "seek knowledge honestly, fairly, with mutual respect and trust, and accept responsibility for their actions and the consequences of those actions". It is a cornerstone for all academic members, and is one of the constellations of commitment for maintaining a scientific discipline in the university. Anything scholarship endeavors to synthesize and integrate, to challenge and develop the science are well-known ideas and thought, so far, it be properly sourced and identified by them and without ever losing sight of the inheritance with which they work. In connection to this, Shils (1981:15) states that validity of the scientific endeavors are not only concerns to "originality" viewed from its significance to the scientific tradition, but it is should also having "conformity" to the scientific ethic code and morale values which have built, maintained, and practiced by scientific community. When conformity is compromised, "there can be no trust or reliance on the effectiveness, accuracy, or value of a scientific validity teaching, learning, research, or public service activities". Within this context, understanding the potential causes and complexities of academic dishonesty, and find solutions is critical for building an effective academic culture and system to try to counter this phenomenon (Baillie & Jortberg, 2009).

A review of previous studies (Stephens, Young & Calabrese, 2007) found a strong positive association between academic dishonesty practices and the tendency to justify or “neutralize” of its responsibility. These neutralization techniques or disengagement may, in part, explain why so many students who report that they believe academic dishonesty practices are wrong also report doing it anyway.

The *academic dishonesty* is indicator of “*undesirable character*”, deliberate dishonesty, *and is* the treason of the truth. Therefore, the scientific community must face the issues and work actively to prevent and not brush it under the rug when it occurs. The most common forms of *academic dishonesty* are classified into six categories:

- plagiarism and piracy (using another’s work without citation or due acknowledgment),
- fabrication and forgery (making up information),
- falsification, fraud, invent, massage, fudge (inaccurately portraying information),
- misrepresentation, honest errors, or deception (falsely representing oneself),
- misbehavior, cooking, or trimming (behaving in ways counter to expectations);
- cheating, bribery (give or obtain assistance in a formal academic exercise) (Lorenzetti, 2010; FIT, 2010; Bauer, 1995).

In the digital era, promoting and building academic culture and integrity are one of the biggest challenges for education, including moral education. The emergence of a new generations has known as Digital Natives, Millennials, Netgens, Gen Me, iGen and Look at Me Generation, Copy and Paste Generation, Generation Y, Generation NeXt, the Loop Hole Generation, the Tethered Generation, Generation M, the Share-It Culture, or Generation M2 (Dryer, 2010:171) has made moral education more vulnerable. This generation has prompted new forms of academic dishonesty behaviors and practices by using the new types of technology. This condition has emerges a socio-technological phenomenon popularly called as “the online disinhibition effect”, a phenomenon may be responsible for other forms of unethical behavior that digital technologies seem to be facilitating (Suler, 2005). Recently, therefore, moral and ethical education is crucial and dilemma issues in DHE, and promoting and building academic culture and integrity, and combating academic dishonesty practices are a crucial effort in the context of moral and ethics education in the digital era nowadays (Anitha & Harsha, 2013; Brown, 2008; Brey, 2003; Gearhart, 2001).

Academic integrity is an integral part of quality education--not least in DHE--that is losing ground is an ever changing information-based society. Whether education is delivered in the classroom or online, educators must be vigilant and relentless in upholding academic honesty. Educators must take advantage of the benefits technological advancement offers and use it to enhance academic quality and integrity (Adkins, Kenkel & Lim, 2005). Brown (2008) asserts that the basic intent of eLearning is a *moral good*, attempting to provide “the greatest good to the greatest number of people” is inherently an ethical task. As with other moral goods, however, there are ethical risks and vulnerabilities that must be an acknowledged and addressed in the process. As eLearning becomes more widespread, so the investigation and discussion of its ethical implications must become more systematic and pervasive.

However, so far, the study on ethical and moral dimensions in DHE institutions has not received much attention, few and scattered, and it was just on of the sections of the study in the curriculum or syllabus.

While, DHE institutions are can also and should fulfill the same role in serving the public good, by fulfilling the wide variety of societal functions that conventional universities have (Brey, 2003).

In such a condition, the emergences of academic dishonesty practices are also a biggest problem, "an epidemic", "a plague" to maintaining academic integrity in education system. It has become more vulnerable along with the rapid development in integrating technology into learning and examining modes (Adkins et al., 2005).

While, the use of technology in DHE was axiomatic (McGee, 2013), and becomes a major culprit for the high incidence of academic dishonesty (Butakov, Dyagilev & Tskhay, 2012; Raines, et al., 2011). Development of the sixth generation of DHE by integrating mobile technology (M-Learning) into learning and examining modes (Keegan, 2002; Taylor, 2001) with fully supported by open access to digital-based open educational resources (OER) (UNESCO, 2006) has become the problem are even more crucial.

ACADEMIC DISHONESTY IN THE DHE

Academic dishonesty is defines any type of cheating that occurs in relation to a formal academic exercise. First scholarly study on academic dishonesty for higher education has been conducted by *Bowers* in the 1960s in the U.S. He has found that is somewhere between 50%-70% of college students, and these rates remain stable today (Wikipedia, 2013).

Various studies were found some modes of academic dishonesty operations in aspects of DHE, such as: in courses, research, and or exam. Form of academic dishonesty behaviors that occurs in DHE apart is old-fashion: cheating, plagiarism, and collusion; and the others are new-fashion such as deception, technology manipulation, misinterpretation, and paid impersonation.

Based on Carroll's Handbook, Johnston (2003) explores differences and intersects between cheating, plagiarism, and collusion. He made an exercise designed into three Venn diagram purporting to show these differences and/or interacts.

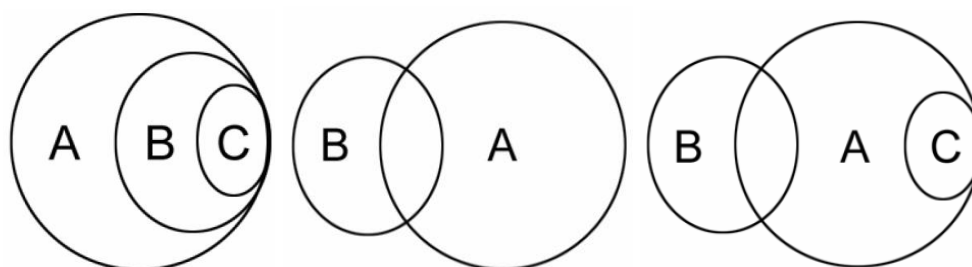


Figure: 1
Three model to way of understanding cheating, plagiarism, and collusion

Figure 1 show three standard ways to understanding differences and/or interacts between cheating, plagiarism, and collusion.

The first model (*left*) show that all instances of collusion (C) are instances of plagiarism (B) and that all instances of plagiarism are instances of cheating (A). Second model (*centre*) show that some but not all instances of plagiarism (B), are instances of cheating (A); and third model (*right*) show that some but not all instances of plagiarism (B), are instances of cheating (A) and that all instances of collusion (C) are instances of cheating (A) but that no instances of plagiarism (B) are necessarily instances of collusion (C).

Cheating, e-Cheating or Digital Cheating

Eventually, cheating in DHE is one of the biggest academic dishonesty practices and a "corrosive problem" that should be faced by DHE (Gallant & Drinan, 2006). A summary of the past 30 years of research on academic dishonesty was conducted by Maramark and Maline (Kelley & Bonner, 2005) have indicated that it is a "*chronic problem*" that affects all levels of education and involves significant numbers of students.

Today, cheating is even more endemic, extremely serious matters in all levels of education worldwide. In fact, cheating has become a culture in the campus life (McCabe & Trevino, 1993).

Generally, cheating in DHE is classified into "*planned cheating*" (the use of crib sheets for exams, copying homework, plagiarizing a paper, and "*panic cheating*" (looking at another student's test during an exam (Hurn, 2011; Bunn, Caudill & Gropper, 1992; Dietz-Uhler).

These practices are conducted using technology, such as Internet, smartphones, iPhones, iPods, iMacs. Braindumps, organized cheating, wireless earpieces and high tech radio transmitters, or HT cheats sites (Vilchez & Thirunarayanan, 2011; Dryer, 2010; Howell, Sorensen & Tippets, 2009; Becker, Connolly, Lentz & Morrison, 2006).

Plagiarism or Cyberplagiarism

Academic Board Policy of the University of Sydney (2010) has been classified plagiarism into "*negligent or unintentional plagiarism*" and "*dishonest or intentional plagiarism*". Negligent plagiarism means innocently, recklessly or carelessly presenting another person's work as one's own work without acknowledgement of the source. Dishonest plagiarism means knowingly presenting another person's work as one's own work without acknowledgement of the source.

Besides cheating, plagiarism is also one of the biggest academic dishonesty in DHE. Moreover, both cheating and plagiarism are assumed a greater problem in online class, and are can be even more vulnerable because of its remote and asynchronous nature along with the increasing number of online programs development (Butakov et al., 2012; Marais, Minnaar & Argles, 2006; Heberling, 2002).

Plagiarism is now "a burning issue in the education, industry, and research community" (Spafford, 2011). It is generally conducted by taking information, adoption of ideas or statements of another person without due acknowledgement from the internet in a "cut and paste" fashion (Jumani, Rahman & Chishti, 2011; Dryer, 2010) or using digital devices as a paid ghostwriter (Appanna & Goundar, 2012).

More over, plagiarism is also occurs in online or asynchronous discussion. In this case, student posting word discussion which had been plagiarized from different Internet Websites (as StudentofFortune.com) with a venue to purchase answers for specific courses, or they copied another student's DQ response word for word (Olt, 2009). Online 'paper mill' companies are businesses that make up arguably one of the most successful internet industries after pornography and gambling. It has delivered "the New Plagiarism" which requires little effort but geometrically more powerful. "It has moved us from the horse and buggy days of plagiarism to the Space Age without stopping for the horseless carriage" (Williams, 2003).

Collusion

The 5th International Plagiarism Conference (Plagiarism Today, 2012) has repeatedly called the "*Elephant in the Room*", is the unauthorized collaboration with another person or working together in using class notes, textbooks, Internet resources, and other useful course materials. In DHE, barriers of time and place that once created or faced on isolation, disconnection, distraction, and attrition has caused collaboration or working together is really keys to DHE students for their teaching and learning approach and success, and to foster their social sense or commitment (Dueber & Misanchuk, 2001; Rovai, 2002; Rovai & Lucking, 2005).

However, the collaboration which tends to unauthorized collusion like in preparing written work for fulfillment of course requirements, projects, or while taking online tests, quizzes or assignments, it is a form of unacceptable behavior or academic dishonesty (Vilchez & Thirunarayanan, 2011). At the recent, collusion practices in DHE are still possible occurs now, although it has also used proctors, the usual test security, or collusion detection tools on an ongoing basis (Rowe, 2004).

Deception

The term is refers to as "*digital deception*" or technologically mediated message (such as the telephone, Email, Instant Messaging, chat-rooms, newsgroups, web-logs, list-servs, multiplayer online videogames etc.). It is one of the most significant and pervasive social phenomena in the context of information and communication technology of the age (Hall, 2008; Hancock, 2007).

Deception can be classified into two broad types, these are "*identity-based digital deception*" refers to deception that flows from the false manipulation or display of a person or organization's identity; and "*message-based digital deception*", refers to deception that takes place in the communication between two or more interlocutors or agents (Hancock, 2007: 4). Further, Hancock explains that both identity-based and message-based digital deceptions are result of the intersection of deception and technology and having complex and complicated answers.

Generally, in DHE the student deception to accommodate their late assignments, with providing false information to a tutor concerning assignment e.g. giving a false excuse for missing a deadline or falsely claiming to have submitted assignment(s) (Jumani et al., 2011).

Technology Manipulation

Is using technology to manipulate opportunities or instructor oversight of student actions? It may be that course management systems and Internet connectivity failures are "the-dog-ate-my-homework" excuse for the 21st century.

Technology can facilitate dishonesty as well as record actions that can provide evidence of misdeeds. Students who have grown up problem solving with technology may find opportunities to bypass laborious course tasks and assignments (McGee, 2013). They quickly learn that technology interruptions can provide acceptable excuses for not turning an assignment in on time or getting permission to re-do an assignment or assessment. Students may intentionally break or crash an Internet connection in order to re-take an assessment. Depending on the system is being used there may exist other loopholes to retake an assessment without instructor permission or knowledge (Rowe, 2004).

Technically savvy students may be able to figure out how to access pre-set answers (such as those associated with automatically graded objective tests) or how to see what other students are doing in their own work, such as accessing files submitted into an assignment area (Howell, Sorenson & Tippets, 2009; Rowe, 2004). As systems developers make progress in providing secure systems such tactics may subside. However, it may be that student's motivation to be dishonest heightens efforts to beat a system.

Misinterpretation

Is the temptation of falsifying identity when a student registers for open courses offered for non-credit and those taken for credit (McGee, 2013). Strategies for misrepresentation occur in two main forms. *First*, students purchase papers or projects written by an individual or a service (Sileo & Sileo, 2008) such as Wetakeyourclass™ (<http://www.wetakeyourclass.com>), Boostmygrades™ (<http://boostmygrades.com>), and Unemployed Professors™ (<http://www.unemployedprofessors.com/index.php>).

Given the expense of college tuition and the cost of paying for college assignments to be written, it does not seem feasible that students could afford such services, and yet they appear to flourish. *Second*, is facilitated by an online environment is work for hire: a student pays someone else to take a course for them or to participate in some capacity during the course (Smith & Noviello, 2012; Bailie & Jortberg, 2009; Schaefer, Barta & Pavone, 2009).

Paid Impersonation

Is a fraudulent action with the aim of imitating a legitimate user and defrauding the security system (Apampa, Wills & Argles, 2010).

Furthermore, Apampa et al., have classified and explored paid impersonation forms into three types: type A is a *connived impersonation*, the ability of an invigilator/tutor to collude with fraudulent students to allow the fraudulent act. Type B is a *password impersonation*, the ability to login details one student who will be impersonated his/her when requested by the security system. Type C is a *fingerprint impersonation*, the ability to record biometric fingerprint and a template to store into system. In e-assessments, the issue of impersonation is considered as a major cause of concern and it is perceived as an even greater risk by the academic community (Kerka & Wonacott (2000). Students may hire or persuade another student to "impersonate" or do his/her work for him for a fee (Ravasco, 2012; Vilchez & Thirunarayanan, 2011; LMC, 2008; Shyles, 2002). According to Vilchez and Thirunarayanan (2011) this practice is one of unique or particular cases of academic dishonesty besides misinterpretation that occurred in distance education. It was also occurred in exams at Universitas Terbuka Indonesia. They are "*exam jockeys*", someone who paid to impersonate another student and look to replace their own entrance exams.

ACADEMIC DISHONESTY: A COMPLEX AND MULTIFACETED FACTOR

Science is a human, social and cultural endeavor, therefore, academic dishonesty practices are “*a complex system*”, which involve various factors are inter-related, overlapping, and influence each other (sometimes simultaneously) in complex and sometimes unpredictable ways, individual, social, cultural, and institutional.

Individual Factors

These factors are well known as the “*Fraud Triangle*”: opportunity, incentive or reward, rationalization (Bailie & Jortberg, 2009; Becker, et al., 2006). Opportunity is related to the weak of preventing and control systems and technology ineptitude to detect academic dishonesty practices. Incentive or reward is related to students’ internal desire and motivation to get a high GPA (Grade Point Average) (Roberts, Eshet, Grinautski & Peled, 2012; Hai-Jew, 2009; Iyer & Eastman, 2006; Bunn et al., 1992); or to remain academically competitive, and reap the benefits of advancement (Vilchez & Thirunarayanan, 2011).

Rationalization is student’s personal reasons, predispositions, or perceptions to justify the academic dishonesty practices. The number of researchers have been identified a variety of students’ reasons engage in academic honesty: a way of achieving success or high grades, procrastination, too busy, not enough time to complete assignment or study for test, lack of organizational skills, fear of failing a course (loss of time and money), have a poor understanding of academy dishonesty, or it just for engaging in the practices (McGee, 2013; Eshet et al., 2012; Jone, 2011; Raines, et al., 2011; Dryer, 2010; Synder & Cannoy, 2010; Sheard, Carbone & Dick, 2002). Even, they do not consider that the practices a serious crime (Bunn et al., 1992).

Social Factors

These factors are connecting to social learning theory emphasizes that much of human behavior is learned through the influence of example and observing other people's behavior and its consequences for them (Bandura, 1986). Numerous studies (Dietz-Uhler, Hurn, 2011; Vilchez & Thirunarayanan, 2011; Jumani et al., 2011; Whitley & Kost2006) founded that peer influence, peer’s acceptability, perceived support from peers or pro-attitudes about dishonesty, and perceived social norms regarding academic dishonesty, or domestic/job circumstances compel students to make malpractice or dishonesty. These factors are considered as the most powerful influence to academic dishonesty (Carpenter, Harding, Finelli, Montgomery & Passow, 2006; McCabe, Trevino & Butterfield, 2001; McCabe & Trevino, 1993), and are the social instrumentals have been created an ‘egocentric climate’ in which an ‘individual conscience takes precedence over the claims of the community’ (Kaplan & Mable, 1998, p. 24). It can exacerbate and complicate the tasks of reinforcing academic integrity on campuses” (Gallant & Drinan, 2006, p. 847).

Cultural Factors

These factors are most related to the “*competition culture*” to achieve good grades or succeed in school (Roberts, Hai-Jew, 2009), and “*a collaborative, sharing culture*” (Kulmala, 2010). In many studies on DHE, desire and motivation the students to achieve success, high grades, or procrastination (Eshet et al., 2012; Roberts, Hai-Jew, 2009; Iyer & Eastman, 2006; Bunn et al., 1992) with supported by rapidly development of social technology has made it easier and more pervasive for everyone to do academic dishonesty behaviors (Dryer, 2010).

Pervasiveness of faculty members or peers-students to this issue is also as a factor contributes those (Bedford, Gregg & Clinton, 2009, 2011; Bailie & Jortberg, 2009; McCabe, 1993). They are also the lack of uniformity in handling academic dishonesty, consider it is "not a serious problem that need to be addressed" (Coalter, Lim & Wanorie, 2007); and too lazy to stop it (Dryer, 2010). They were also tendency to handle academic dishonesty issues individually and rarely pursue formal sanctions. So, using formal sanctions as a deterrent has not been effective because it has not been adopted by the majority of faculty members. As a result, students consider dishonesty practices is a low-risk activity (Kelley & Bonner, 2005).

The other factors are a phenomenon commonly called "*psychological distance*" (Geerhart, 2001), a condition in which there are barriers of time and place for students to interact, communicates or socializes with others. It have caused once excluded from the academic community, or anonymity, not much face-to-face interaction with instructor to build trust or a relationships (Grijalva, Kerkvliet & Nowell, 2013; Eshet et al., 2012; Coalter et al., 2011; Black, Greaser & Dawson, 2008).

Institutional Factors

These factors are related to whether or not the institutional policy on honor code and integrity system (Roberts, Hai-Jew, 2009; Spaulding, 2009); and ineffective disciplinary actions taken by educational institutions (Vilchez & Thirunarayanan, 2011). The other factors are overloaded simultaneous study schedule and hard working students whose assignments are not properly evaluated (Jumani et al., 2011).

In the number of nations, it is may also caused by DHE reforms and liberalization programs. This affects to emerge "*a business model*" that allows the loss of institutional autonomy and the commercialization of education (Brey, 2006); and increase the number of new providers enter to operate in a "deregulated" environment. Over time, it would lead to an intensification of competition, which was supposed to deliver its regulatory expectations (Appanna & Goundar, 2012).

INTEGRATED MORAL EDUCATION: A Model for Combating Academic Dishonesty

By the very nature of DHE, academic dishonesty practices in are more conducive to both detecting and combating than are in a traditional class (Heberling, 2002). But, the causes are complex and multifaceted and never completely eradicate all academic dishonesty behaviors, a changing and revisiting pedagogical approach of moral education is necessity. Moral education should become integrated efforts and strategies not only focused on a skill to be mastered, and a knowledge of the discipline, but it should also be build within the university culture which inspires every academic member to expect, think, behave, and act well (Niels, 1997). As Valentine (2006) has asserted that academic dishonesty practices are "part of a practice that involves participants' values, attitudes, and feelings as well as their social relationships to each other and to the institutions in which they work" (p. 89).

Academic dishonesty behaviors are "a complex system" which involve various factors are inter-related, overlapping, and influence each other (sometimes simultaneously) in complex and sometimes unpredictable ways, individual, social, cultural, and institutional. This is relates in a complex set of interactions that ultimately lead to a moral intention rather than in any sequential fashion.

Any attempt to understand moral reasoning's influence on moral obligation, intention, and behavior should ultimately include these other components (Harding et al., 2007). Therefore, moral education should be a continuous self-formation and self-development activity, open to improvement at intellectual, moral, technological, esthetic and physical level (Schiller, 2002). Singular moral approaches to *academic dishonesty behaviors* are ultimately insufficient and can shed light on the problem. Moral solutions should be developed as an integrated model for pedagogy, policy, and technology (Maruca, 2003). In their research on plagiarism by adult learners online, Jocoy and DiBiase (2006) conclude that "*raising awareness and managing expectations about plagiarism may be worthwhile, but is no substitute for systematic detection and vigilant enforcement, even among adult learners*" (p.1). The moral education should be "a comprehensive values education" in methodology, takes place in all phases of the university life cycle, goes back to the future, and progressive (Kirschenbaum, 1992), include *policing, prevention, and ethics* efforts.

Policing

It is moral efforts to identify academic dishonesty, and develop the honor codes, integrity system, and the sanction system. Policy consists of a set of rules or ethical principles governing a community based on ideals that define what constitutes honorable behavior within that community. Those who are in violation of the honor code can be subject to various sanctions, including expulsion from the institution (Wikipedia, 2013).

According to "deterrence theory" (Gibbs, 1975) academic dishonesty may depend upon the sanction system, particularly how effectively academic integrity rules and guidelines are enforced. Deterrence theory suggests that for misconduct to be inhibited, wrongdoers must perceive, first, that they will be caught and, second, that severe penalties will be imposed for the misconduct. McCabe asserts that "*penalties should match the intent of the cheater but also acknowledges it is a difficult position [to evaluate] the individual motivation of each student*" (Howell et al., 2009:3).

At a number of universities in the world, the policy has been used, for example, by the University of Maryland (1990), Kansas State University and Penn State University (1999), Barton Community College in Kansas (Kansas, 2003); Wichita State University in Kansas (Wichita, 2005); Simon Fraser University in Canada (Weeks, 2009); South Dakota University (The USD, 2003).

They use assigns an "XF/F" (*cheating-failure*) for a student who "failed a class because they cheated" or "FD/H" for a student who "failure due to an academic dishonesty"; and "XW/WF/W" (*cheating-withdrawal*) for a student who "withdraws from a class before the end of the semester". The grades will appear and recorded on a student's transcript. Since 2009, Universitas Terbuka Indonesia has also been developed this strategy to identify academic dishonesty in exam and given sanction who those by given "E" and assigned a "*H=Hukuman*" (guilty) for a student who collusion or cheats in exam.

Of course, the system may not fully enabled to eliminate the practice of academic dishonesty but it can reduce the occurrence of academic violations in exam. However, the number of studies (Roberts, Dane & Granzow, 2012; Hai-Jew, 2009; Engler, Landau & Epstein, 2008; Williams, 2003; McCabe et al., 1999; McCabe & Trevino, 1993) found that through the use of the honor codes and integrity system, students enable to clarifying their expectations regarding appropriate and inappropriate behavior; to shift their responsibility for control of academic dishonesty from faculty and administrators; and to give frequently privileges for them such as un-proctored exam.

Preventing

Is moral efforts should be prevented and secured the emergence of *academic dishonesty behaviors and practices using* automated detection tools or devices such as banning/controlling electronic devices, photo and/or government identification, fingerprinting and palm vein scanning, cheat-resistant laptops, computer-adaptive testing and randomized testing, statistical analysis, or commercial security systems (Howell et al., 2009).

These strategies are very important to Distance Higher Education Institutions which have faced with a formidable challenge to ensure the identity of test takers and integrity of exam results, especially since students are physically removed from the classroom and distributed across the globe.

Around the world, the *kinds of* detection devices which have been popularly used are the Digital Rights Management (DRM), Plagiarism Detection Services (PDS) to check submitted digital artifacts without any noticeable effort by either professor or student (Butakov et al., 2012); or the Electronic Assessment Management (EAM) in streamlining plagiarism detection and deterrence particularly used for distance and multiple-campus provision (Ellis, 2012). The text originality check systems (TOCS)—Turnitin, GenuineText, and Urkund—has also *examined by Heyman et al. (2012)* at Swedish Universities and Stockholm University to automated detection detect plagiarism. Test documents are submitted simultaneously to the TOCS at selected times with identical test documents, resulting in a systematic assessment and in accurate results.

Another user security models used are secure remote proctor software using biometric verification (uni-modal or bimodal biometric), visual identification (Webcam) as well as proctored test environments was also used to identify and authenticate learners identity (Coalter et al., 2009; 2011; Apampa et al., 2010; Bailie & Jortberg, 2009; Trenholm, 2007; Adkins et al., 2005; Curnow, Freeman, Wisher & Belanich, 2002). Frank (2010) has introduced a Dependable observable Distributed online Testing (DoDoT) reference model to enable full realization of the Dependable Distributed Testing (DDT) system in a distributed environment to increase the testing integrity of DE programs.

For those, he examines three DDT systems: the Pupilcity ProctorU, Kryterion Online Proctoring (Webassessor), and Secureexam Remote Proctor as remote proctor software. According to him, however, DDT systems are not yet in use in most DE frameworks. These systems have been used to continued pursuit and adapt new, innovative technologies and methods to make dependable distributed testing increasingly more computerized, reliable, affordable and prevalent.

Besides, genealogist has also been used the originality content analysis, "*genealogical system*" for tracing family history links of a piece of plagiarized material and to identify the origins of content over a ten-year period. At the centre of this strategy is Turnitin, Altavista, and/or Google search engines can be used for the submission, originality checking, marking and return of student work (Baggaley, 2012).

Filtering or blocking the types of content Web, bulletin boards, or messages that does not support to moral and ethics education should also be done. In DHE, filtering or blocking actions are may be an efficiency reason, because it is found that certain sites generate a large amount of web traffic that causes net congestion for students or staff (Brey, 2006).

In the misinterpretation practices, Schaefer's et al. (2009) survey report that the student identity verification methodologies was agreed or strongly agreed by faculty members and administrator to be used, because this methodology is definitively confirm the identities of the students and ensure that the students who are registered actually are the students taking the course.

The same result was shown by Kaplan's study (Acxiom, 2011) that faculty members feel improving students identity methodology in distance education ensure integrity of their online courses, improves the reputation in the marketplace and the quality or credibility of its graduates.

Ethics

Is moral efforts to promote academic integrity values and to reduce academic dishonesty. These efforts can be considered as a proper vehicle for cultural transmission of moral and ethics value as one of the major functions of universities include of the virtual universities or DHE institutions (Brey, 2006). The efforts can be done through development, socialize, demonstrate, and enforcement of institutional policies/practices/standards/manuals on academic integrity, and also incorporate ethic and moral values within assignments, lessons, tutorial, syllabus, the core curriculum, area-specific within degree plans (Geerhart, 2001; McCabe & Trevino, 1993); the class book Web course interdisciplinary (Toner, Toner & White, 2000); and/or designing an effective cheat-proof online assessment, keeping online courses current (Toprak, Ozkanal, Aydin & Kaya, 2010; Olt, 2002).

A research review by Bombaro and Mitchell's (2012) found that the strategy were effective to supports faculty confidence that their students have been given fundamental information about academic integrity, academic dishonesty, and its consequences. This ethical strategy is the best social norm approach to behavioral intervention to puncture the inaccurate perceptions that individuals use to justify their behavior, and to develop an academic culture that supports an honor code and discourage academic dishonesty behaviors (Jordan, 2001; Carpenter et al., 2006). Cano and Sams' (2009) field observation found that this strategy was enabled to advance the students' sensitivity to the importance of ethical and moral behavior in academic activities. Furthermore, a number of the students made a conscience effort to cover up their actions.

Today, some DHE institution like Los Medanos College (Puccioni & Huffman, 2008), the WCET, UT Telecampus, and ITC (2009), and CCLF (2011) has developed best practices strategies to promote academic integrity in online education consist of five dimensions: institutional context and commitment, curriculum and instruction, faculty support, student support, and assessment and evaluation.

Students' guidelines for avoiding academic dishonesty or students' handbook about cheating and plagiarism are also important to provide the basic information, bound for them by the values, and expected behaviors of an academic community (Jones, 2011; Yeo & Chien, 2005).

"Moral education founded in an ethics of virtue", therefore, the virtue approach is also the important aspects to moral education for building traits of students' character (Steutel, 1997). Several authors and researchers suggest virtue approach need to be considered in the designing of curricula, syllabi, program, assignment, and so forth.

The content of design should be focused on attempting to “cultivate a sense of belonging and community” by using the “virtues” (Christe, 2003; Olt, 2002). Education program design is also not just in terms of costs and academic integration, but also in terms of cyber behavior, digital ethics, and other confounding issues. Students should have more information about what happens in cyberspace and involve them to allow and engage in important conversations about living digitally that simply aren’t happening (Ohler, 2011).

Assessment should also be design as “original” assignments and readings, or even considering alternative, project-based assessments, which require creativity, encourage critical thinking rather than rote memorization (Christe, 2003; Williams, 2003; Olt, 2002). Assessment is also be designed as set a trap which do not permit outside assistance from the Internet by creating a web site with incorrect answers (Krsak, 2007), and difficult for students to plagiarize because of their specificity, their reliance on course materials, or their relevance to their lives and individual opinions (Maruca, 2003). Bailie and Jortberg (2009) suggest the use of challenge questions derived from third-party data providers that are not student driven.

CONCLUSIONS

Along with increasing the use of digital-based information and communication nowadays, the emergence of academic dishonesty behaviors and practices among academic members are one of the biggest challenges to realize moral education and build academic culture and integrity in DE. The study shows that those are more easily to do and sophisticated, because the use of technology in DE is axiomatic. Academic dishonesty behaviors and practices at Distance Education was carried out in various modes of operation such as cheating, collusion, deception, plagiarism, technology manipulation, and misinterpretation by utilizing advanced technology. Individual, social, cultural, and institutional is factors have a very significant role for the emergence of behavior and practice dishonesty at Distance Education. To combate academic dishonesty and promote academic culture and integrity in Distance Education, ssingular moral approaches to academic dishonesty behaviors are ultimately insufficient and can shed light on the problem. Moral solutions are should be developed as an integrated model of pedagogy, policy, and technology. Several approaches can be done by policing, prevention, and ethics.

BIODATA and CONTACT ADDRESSES of the AUTHOR



Mohammad Imam FARISI is currently a Senior Lecturer in the Department of Social Studies, Faculty of Education at the Universitas Terbuka Indonesia (Indonesia Open University). He completed his Doctor (Dr) in Social Studies at Indonesia University of Education by scholarships from Directorate General of Higher Education, National Education Department (2001-2005). He has also published over 30 articles at some National Journals, as paper presenter at national and international conferences, seminars on education and distance education; and as trainer/human resource at professional workshops and trainings for teachers and tutors. He has published four books on education, and social studies.

Mohammad Imam FARISI

Faculty of Education, Department of Social Studies
Universitas Terbuka, Surabaya Regional Office, INDONESIA
Kampus C Unair Mulyorejo, Surabaya 60115, Indonesia
Phone: (+62-31) 5961861; (+62-31) 5961862;
Fax: (+62-31) 5961860
Emails: imamfarisi@ut.ac.id imamfarisi@yahoo.com

REFERENCES

- Academic Board Policy of the University of Sydney-ABPUS. (2010). *Academic dishonesty and plagiarism*. Retrieved February 21, 2013 from <http://www.maths.usyd.edu.au/u/UG/Plagiarism.pdf>
- Acxiom. (2011). *Experiences verifying the identity of distance learning students: Third annual report on identity in distance learning*. AR: Acxiom Corporation. Retrieved March 19, 2013 from <http://www.learninghouse.com/acxiom/docs/acxiom-white-paper.pdf>
- Adkins, J., Kenkel, C., & Lim, Ch. L. (2005). *Deterrents to online academic dishonesty*. *The Journal of Learning in Higher Education*, 1(1), 17-22.
- Anitha, C., & Harsha, T. S. (2013). Ethical perspectives in open and distance education. *Turkish Online Journal of Distance Education-TOJDE*, 14(1), 193-201.
- Apampa, K. M., Wills, G., & Argles, D. (2010). User security issues in summative e-assessment security. *International Journal of Digital Society (IJDS)*, 1(2), 135-147.
- Appanna, S., & Goundar, S. (2012). *Plagiarism in New Zealand – When the "hand of management" shakes*. Proceedings at the 5th International Plagiarism Conference, 16 – 18 July, Sage Gateshead, Newcastle upon Tyne, UK.
- Baggaley, J. (2012). *Plagiarism: cross-cultural and genealogical perspectives*. Proceedings at the 5th International Plagiarism Conference, 16 – 18 July, Sage Gateshead, Newcastle upon Tyne, UK.
- Bailie, J. L., & Jortberg, M. A. (2009). Online learner authentication: Verifying the identity of online users. *MERLOT Journal of Online Learning and Teaching*, 5(2), 197-207.
- Bandura, A. (1986). *Social foundations of thought and action*. Englewood Cliffs, N.J.: Prentice-Hall.
- Bauer, H. H. (1995, December 5). *Ethics in science*. Retrieved February 21, 2013 from <http://www.files.chem.vt.edu/chem-ed/ethics/hbauer/hbauer-intro.html>
- Becker, D., Connolly, J., Lentz, P., & Morrison, J. (2006). Using the business fraud triangle to predict academic dishonesty among business students. *Academy of Educational Leadership Journal*, 10(1), 37-54.
- Bedford, Q. W., Gregg, J. R., & Clinton, M. S. (2011). Preventing online cheating with technology: A pilot study of remote proctor and an update of its use. *Journal of Higher Education Theory and Practice*, 11(2), 41-58.
- Bedford, W., Gregg, J., & Clinton, S. (2009). Implementing technology to prevent online cheating: A case study at a Small Southern Regional University (SSRU). *MERLOT Journal of Online Learning and Teaching*, 5(2), 230-238.
- Black, E. W., Greaser, J., & Dawson, L. (2008). Academic dishonesty in traditional and online classrooms: does the "media equation" hold true? *Journal of Asynchronous Learning Networks*, 12(3-4), 23-30.

Bombaro & Mitchell (2012). *Doing honest work: A campuswide approach*. Paper presented at the 5th international plagiarism conference, *gateshead, United Kingdom*, July 16-18, 2012.

Brey, P. (2003). *Ethical issues for the virtual university*. Retrieved August 27, 2011 from http://www.europace.org/articles-and-reports/WG9_Final_Report.pdf

Brey, P. (2006). Social and ethical dimensions of computer-mediated education. *Journal of Information, Communication & Ethics in Society*, 4(2), 91-102.

Brown, T. (2008). Ethics in elearning. *Revista de Educação do Cogeime*, 17(32/33), 211-216.

Bunn, D. N., Caudill, S. B., & Gropper, D. M. (1992). Crime in the classroom: An economic analysis of undergraduate cheating behavior. *Journal of Economic Education*, Summer ed., 197-207.

Butakov, S., Dyagilev, V., & Tskhay, A. (2012). Protecting students' intellectual property in the web plagiarism detection process. *The International Review of Research in Open and Distance Learning-IRRODL*, 13(5), 1-19.

Cano, C. R., & Sams, D. (2009). Advancing cognitive moral development: A field observation of college students. *Journal of Academic and Business Ethics*, 3(special section), 1-16.

Carpenter, D. D., Harding, T. S., Finelli, C. J., Montgomery, S. M., & Passow, H. J. (2006). Engineering students' perception of and attitudes towards cheating. *Journal of Engineering Education*, 95(3), 181-194.

Christe, B. (2003). Designing online courses to discourage dishonesty: Incorporate a multilayered approach to promote honest student learning. *Educause Quarterly*. 4, 54-58.

Coalter, T., Lim, Ch. L., & Wanorie, T. (2007). Factors that influence faculty actions: A study of faculty responses to academic dishonesty. *International Journal for the Scholarship of teaching and Learning*, 1(1), 1-21.

Community College Leadership Forum-CCLF. (2011). *Maintaining academic integrity in online courses: Custom research brief*. The Advisory Board Company. Washington, D.C.

Curnow, Ch. K., Freeman, M.W., Wisher, R.A., & Belanich, J. (2002). *Training on the web: Identifying and authenticating learners*. Virginia: US Army Research Institute for the Behavioral and Social Sciences.

Dane, F.C., & Granzow, S. (2012). *Promoting academic integrity: A review of research on university honor codes*. Retrieved March 16, 2013 from www.svsu.edu/Honor_Code_Research_Review_050802.doc

Dietz-Uhler, B., & Hurn, J. (2011). *Academic dishonesty in online courses*. ASCUE Proceedings. Retrieved February 21, 2013 from <http://www.ascue.org/files/proceedings/2011/072-078.pdf>

- Dryer, K. A. (2010). *Challenges of maintaining academic integrity in an age of collaboration, sharing and social networking*. TCC 2010 Proceedings. Retrieved January 23, 2013 from <http://etec.hawaii.edu/proceedings/2010/Dyer.pdf>
- Dueber, B., & Misanchuk, M. (2001). *Sense community In a distance education course*. Paper at Mid-South Instructional Technology Conference Murfreesboro, TN, April 8-10. Retrieved february 21, 2013 from <http://Billdueber.Com/Dueber-Misanchuk.Pdf>.
- Ellis, C. (2012). Streamlining plagiarism detection: The role of electronic assessment management. *International Journal of Educational Integrity*, 8(2), 46-56.
- Engler, J.N., Landau, J.D., & Epstein, M. (2008). Keeping up with the joneses: Students' perceptions of academically dishonest behavior. *Teaching of Psychology*, 35: 99–102.
- Eshet, Y., Grinautski, K., & Peled, Y. (2012). *Learning motivation and student academic dishonesty: A comparison between face-to-face and online courses*. Proceedings of the Chais conference on instructional technology research 2012: Learning in technology era. (pp. 22-29). Raanana: The Open University of Israel.
- Florida Institute of Technology. FIT. (2010). *Student handbook*. Retrieved February 21, 2013 from <http://www.fit.edu/studenthandbook/print.php>.
- Frank, A. J. (2010). *Dependable distributed testing: Can the online proctor be reliably computerized?* Proceedings of the International Conference on e-Business (ICE-B), Athens, Greece, 26-28 July 2010. <http://u.cs.biu.ac.il/~ariel/download/stuff/dodot.pdf>
- Gallant, T.B., & Drinan, P. (2006). Organizational theory and student cheating: Explanation, responses, and strategies. *The Journal of Higher Education*, 77(5), 839-860.
- Gearhart, D. (2001). Ethics in distance education: Developing ethical policies. *Online Journal of Distance Learning Administration*, IV(1). Retrieved March 21, 2013 from <http://www.westga.edu/~distance/ojdl/spring41/gearhart41.html>.
- Gibbs, J. P. (1975). *Crime, punishment, and deterrence*. Amsterdam: Elsevier.
- Grijalva, Th.C., Kerkvliet, J., & Nowell, C. (2013). *Academic honesty and online courses*. Retrieved March 17, 2013 from http://uqs.usf.edu/pdf/courses/0708/cheat_online_pap.pdf
- Hall, C.W. (2008). *Revealing online deception: The discrepancy between deceptive belief and practice online*. Retrieved February 23, 2013 from http://dspace.library.cornell.edu/bitstream/1813/11059/2/Cameron_Hall_Research_Honors_Thesis.pdf
- Hancock, J. T. (2007). Digital deception. Why, when and how people lie online. In Joinson, A., McKenna, K., Postmes, T. and Reips, U. (Eds.), *The Oxford handbook of Internet psychology*. (pp. 289-301). Oxford: Oxford University Press.
- Harding et al. (2007). The theory of planned behavior as a model of academic dishonesty in engineering and humanities undergraduates. *Ethics & Behavior*, 17(3),

Heberling, M. (2002). Maintaining academic integrity in online education. *Online Journal of Distance Learning Administration*, 5(1).

Heyman, F.A., et al., (2012). *Can we rely on text originality check systems? Evaluation of three systems used in higher education and suggestion of a new methodological test approach*. Proceedings at the 5th International Plagiarism Conference. the Sage Gateshead, Newcastle upon Tyne, UK, 16- Wednesday 18 July 2012. Retrieved March 19, 2013 from <http://urn.kb.se/resolve?urn=urn:nbn:se:su:diva-82217>.

Howell, S. L., Sorensen, D., & Tippets, H. S. (2009). The new (and old) news about cheating for distance educators. *Online Journal of Distance Learning Administration*, 13(3).

Iyer, R. and Eastman, J.K. (2006). Academic dishonesty: Are business students different from other college students? *Journal of Education for Business*, November/December, 101-110.

Jocoy, Ch., & DiBiase, D. (2006). Plagiarism by adult learners online: A case study in detection and remediation. *International Review of Research in Open and Distance Learning*, 7(1), 1-15.

Johnston, B. (2003). The concept of plagiarism. *Learning and Teaching in Action*, 2(1). Spring 2003.

Jone, D. L. R. (2011). Academic dishonesty: Are more students cheating? *Business Communication Quarterly*, 74(2), 141-150.

Jones, L.R. (2011). *Academic integrity & academic dishonesty: A handbook about cheating & plagiarism*. Melbourne, Florida: Florida Institute of Technology.

Jordan, A. E. (2001). College student cheating: The role of motivation, perceived norms, attitudes, and knowledge of institutional policy. *Ethics & Behavior*, 11(3), 233–247.

Jumani, N. B., Rahman, F., Iqbal, A., & Chishti, S. H. (2011). Factors to improve written assignments in Pakistan. *Asian Journal of Distance Education*, 9(1), 4-13.

Kansas State University. (2003). Kansas College Gives First "XF" Grade to Plagiarist. *Community College Week*. Retrieved March 18, 2013 from <http://edweb.sdsu.edu/bober/kansasstate.pdf>

Kaplan, W., & Mable, P. (1998). Students' perceptions of academic integrity: Curtailing violations. In D. D. Burnett, L. Rudolph & K. O. Clifford (Eds.), *Academic integrity matters* (pp. 22–31). Washington, DC: National Association of Student Personnel Administrators, Inc.

Keegan, D. (2002). *ZIFF PAPIERE 119. The future of learning: From elearning to mlearning*. Hagen: FernUniversitat.

Kelley, K.B., & Bonner, K. (2005). Digital text, distance education and academic dishonesty: faculty and administrator perceptions and responses. *Journal of Asynchronous Learning Networks – JALN*, 9(1), 43-52.

Kerka, S., Wonacott., M. (2000). *Assessing Learners Online. Practitioner File*. ERIC, ED 448285. Retrieved March 21, 2013 from <http://www.eric.ed.gov/PDFS/ED448285.pdf>

Kirschenbaum, H. (1992). A comprehensive model for values education and moral education. *Phi Delta Kappan*, 73(10), 771-776.

Krsak, A.M. (2007). *Curbing academic dishonesty in online courses*. TCC 2007 Proceedings. <http://etec.hawaii.edu/proceedings/2007/krsak.pdf> Retrieved March 17, 2013

Kulmala, D. (2010). Meta-Collaboration: Writing with Students to Engage Learning. *Faculty Focus*. Retrieved January 25, 2010 from <http://www.facultyfocus.com/articles/effective-teaching-strategies/meta-collaborationwriting-with-students-to-engage-learning>

Marais, E., Minnaar, U., & Argles D. (2006). Plagiarism in e-learning systems: Identifying and solving the problem for practical assignments. In *Proceedings of the Sixth IEEE International Conference on Advanced Learning Technologies (ICALT '06)* (pp. 822–824). Washington, DC: IEEE Computer Society.

Maruca, L. (2003). Plagiarism and its (disciplinary) discontents: Towards an interdisciplinary theory and pedagogy. *Issues in Integrative Studies*, 21, 74-97.

McCabe, D. L. (1993). Faculty responses to academic dishonesty: The influence of student honor codes. *Research in Higher Education* 34 (5): 647–658.

McCabe, D. L., & Trevino, L.K. (1993). Academic dishonesty: Honor codes and other contextual influences. *The Journal of Higher Education*, 64(5), 522-538.

McCabe, D. L., Trevino, L. K., & Butterfield, K. D. (1999). Academic Integrity in honor code and non-honor code environments: a qualitative investigation. *Journal of Higher Education*. 70(2), 211-234.

McCabe, D. L., Trevino, L.L & Butterfield, K.D. (2001). Cheating in academic institutions: A decade of research. *Ethics & Behavior*, 11(3), 219–232.

McGee, P. (2013). Supporting academic honesty in online courses. *The Journal of Educators Online*, 10(1), 1-31.

Niels, G.J. (1997). *Academic practices, school culture and cheating behavior*. Retrieved March 17, 2013 from http://www.winchesterthurston.org/uploaded/About_Us/cheating.pdf

Ohler, J. (2011). Digital citizenship means character education for the digital age. *Kappa Delta Pi Record*, 25-27.

Olt, M. R. (2009). Seven strategies for plagiarism-proofing discussion threads in online courses. *MERLOT Journal of Online Learning and Teaching*, 5(2), 222-229.

Olt, M.R. (2002). Ethics and distance education: Strategies for minimizing academic dishonesty in online assessment. *Online Journal of Distance Learning Administration*, 5(3).

- Plagiarism Today. (2012). *5 key takeaways from the 5th international plagiarism conference*. Retrieved March 16, 2013 from <http://www.plagiarismtoday.com>
- Puccioni, M., & Huffman, L. (2008). *Distance education best practices guide*. San Francisco: Los Medanes Collage and the Distance Education Committee.
- Raines, D.A., et al. (2011). Cheating in online courses: The student definition. *The Journal of Effective Teaching*, 11(1), 80-89.
- Ravasco, G. G. (2012). Technology-aided cheating in open and distance e-learning. *Asian Journal of Distance Education*, 10(2), 71-77.
- Roberts, C. J., & Hai-Jew, S. (2009). Issues of academic integrity: An online course for students addressing academic dishonesty. *MERLOT Journal of Online Learning and Teaching*, 5(2), 182-196.
- Rovai, A.P., & Lucking, R. (2005). Sense community in a higher education television-based distance education program. *Educational Technology Research and Development*. 51(2). 5-16, DOI:10.1007/BF02504523.
- Rovai, A. P. (2002). Building sense community at a distance. *International Review Research In Open and Distance Learning*. 3(1).
- Rowe, N. C. (2004). Cheating in online student assessment: Beyond plagiarism. *Online Journal of Distance Learning Administration*, 7(2).
- Schaefer, T., Barta, M., & Pavone, T. (2009). Student identity verification and the higher education opportunity act: A faculty perspective. *International Journal of Technology and Distance Learning*, 6(8), 51-58.
- Schiller, E. I. (2002). *Education, mentality and culture in the internet era*. Bucharest: Christian University.
- Sheard, J., Carbone, A., & Dick, M. (2002). *Determination of factors which impact on IT students' propensity to cheat*. In T. Greening & R. Lister (Eds.). Proceedings of Australian Computing Education Conference (AACEC), Adelaide, Australia. Retrieved March 17, 2013 from <http://129.96.12.107/confpapers/CRPITV20Sheard.pdf>
- Shils, E. (1981). *Kaum Cendekiawan*. D. Hartoko, (Ed.). Golongan Cendekiawan: Mereka yang Berumah di Angin. Jakarta: PT. Gramedia.
- Shyles, L. (2002). *Authenticating, Identifying, and Monitoring Learners in the Virtual Classroom: Academic integrity in distance learning*. Paper presented at the Annual Meeting of the National Communication Association (88th, November 21-24, 2002, New Orleans, LA).
- Sileo, J. M., & Sileo, T. W. (2008). Academic dishonesty and online classes: A rural education perspective. *Rural Special Education Quarterly*, 27(1/2), 55-60.
- Spafford, E.H. (2011). Security, technology, publishing, and ethics (part II). *Computers & Security*, 30(1), 2-3.

Spaulding, M. (2009). Perceptions of academic honesty in online vs. face-to-face classrooms. *Journal of Interactive Online Learning*, 8(3), 183-198.

Stephens, J.M., Young, M.F., & Calabrese, Th. (2007). Does moral judgment go offline when students are online? A comparative analysis of undergraduates' beliefs and behaviors related to conventional and digital cheating. *Ethic & Behavior*, 17(3), 233-254.

Steutel, J.W. (1997). The virtue approach to moral education: Some conceptual clarifications. *Journal of Philosophy of Education*, 31(3), 395-407.

Suller, J. (2005). The online disinhibition effect. *International Journal of Applied Psychoanalytic Studies*, 2(2), 184-188.

Synder, L. G., & Cannoy, S. D. (2010). Business communication: Instructional strategies to prevent plagiarism. *Business Education Forum*, 65, 23-25.

Taylor, J. C. (2001). *Fifth generation distance education*. Keynote address, ICDE 20th world conference, April 1.5, Dusseldorf, Germany. Retrieved March 14, 2010 from <http://www.usq.edu.au/electpub/ejist/docs/old/vol4no1/2001docs/taylor.html>

The USD University Academic Affairs Council. (2003). *Proposal to Create XF/XW Grades*. Retrieved March 19, 2013 from http://www.sdbor.edu/services/academics/aac/documents/05-07AAC_8.A.3_XF-XW_grades.pdf

Toner, C.N., Toner, J.F., & White, R.C. (2000). Lies, Deception and heroification and a midwife's tale and the social web: The class book web course interdisciplinary faculty development project at the University of Maine. *South African Journal of Information Management*, 2(2/3). Retrieved February 22, 2013. from <http://www.sajim.co.za/index.php/SAJIM/.../100>

Toprak, E., Ozkanal, B., Aydin, S., & Kaya, S. (2010). Ethics in elearning. *TOJET: The Turkish Online Journal of Educational Technology*, 9(2), 78-86.

Trenholm, S. (2007). A review of cheating in fully asynchronous online courses: A math or fact-based course perspective. *Journal of Educational Technology Systems*, 35(3), 281-300.

U.C. Davis. (2008). *What is academic integrity? Office of student judicial affairs*. Retrieved from <http://sja.ucdavis.edu/academic-integrity.html>. January 26, 2010

UNESCO. (2006, June 11–13). *Open educational resources: Deliberations of a community of interest*. Lillehammer, Norway: ICDE SCOP.

Valentine, K. (2006). Plagiarism as literacy practice: Recognizing and rethinking ethical binaries. *College Composition and Communication*. 58(1),89-109.

Vilchez, M., & Thirunarayanan, M.O. (2011). Cheating in online courses: A qualitative study. *International Journal of Instructional Technology and Distance Learning*, 8(1).

WCET, UT Telecampus & Instructional Technology Council. (2009). *Best practices strategies to promote academic integrity in online education*. Retrieved February 21, 2013 from <http://wcet.wiche.edu/wcet/docs/cigs/studentauthentication/BestPractices.pdf>

Weeks, C. (2009). Schools look to push new punishment for cheaters. *The Globe and Mail*. Retrieved January 15, 2013 from <http://www.theglobeandmail.com/life/schoolslook-to-push-new-punishment-for-cheaters/article1251548>

Whitler, Jr, B.E., & Kost, C.R. (2006). College students' perceptions of peers who cheat. *Journal of Applied Social Psychology*, 29(8), 1559-1816.

Wichita State University. (2005). XF/XW grade policy. distance education. Wichita State University. Retrieved March 18, 2013 from http://webs.wichita.edu/senate/XFXW_grade.htm

Wikipedia. (2013b). *Honor code*. Retrieved March 16, 2013 from http://en.wikipedia.org/wiki/Honor_code.

Williams, J.B. (2003). Plagiarism: Deterrence, detection and prevention. *J. Houston & D. Whigham (Eds). The Handbook for Economics Lecturers*. UK: University of Bristol.

Yeo, S., & Chien, R. (Eds). (2005). *Academic Integrity at Curtin: Students guidelines for avoiding plagiarism*. Australia: Learning Support Network.