LEARNING AND DIGITAL ENVIRONMENT OF DANCE – THE CASE OF GREEK TRADITIONAL DANCE IN YOUTUBE

Dimitra Gratsiouni [dimitragratsiouni@yahoo.gr], Maria Koutsouba [makouba@phed.uoa.gr], Foteini Venetsanou [fvenetsanou@phed.uoa.gr], Vasiliki Tyrovola [vtyrovol@phed.uoa.gr], School of Physical Education and Sport Science, National and Kapodistrian University of Athens, Ethnikis Antistasis 41, Dafni, 17237, Greece, [http://www.phed.uoa.gr]

Abstract

The incorporation of Information and Communication Technologies (ICT) in education has changed the educational procedures through the creation and use of new teaching and learning environments with the use of computers and network applications that afford new dimensions to distance education. In turn, these emerging and in progress technologies, render new practices in many fields including the field of dance offering a fertile quest to everyone involved in the dance. Yet, a critical evaluation of the content of YouTube dance videos has not been carried out though what is eventually learned through YouTube is a key question. Based on the above, the aim of this study was to critically examine the way YouTube network channel as Computer Based Learning-CBL functions both as a learning tool and as a teaching result concerning the field of dance having as example a Greek traditional dance named Karagouna. YouTube dance videos were gathered through observation, while the dance exemplar used was based on ethnographic research. For the dance recording of the Karagouna performances examined from YouTube, Laban's notation system (Labanotation) was used. For the analysis of the dance performances, the dance structural-morphological and typological method was adopted. Finally, for the comparison of the Karagouna dance performances examined from YouTube with the exemplar of the dancing community, the comparative method was used. It was proved that someone with little or no relation to dance is likely to learn dance with the use of YouTube, yet it is questionable what kind of dance will actually learn since in a number of cases the dance videos do not correspond to the performance of the dancing community. In addition, the outcome is different if someone with prior knowledge on the field of dance (dancer, dance teacher, dance student etc.) uses YouTube as a teaching and learning tool as, in this case, its use is useful and interactive.

Abstract in Greek

Η ενσωμάτωση των Τεχνολογιών της Πληροφορίας και της Επικοινωνίας (ΤΠΕ) στην εκπαίδευση έχει αλλάξει δραστικά την εκπαιδευτική διαδικασία καθώς η δημιουργία και η χρήση νέων περιβαλλόντων διδασκαλίας και μάθησης, μέσα από την υποστήριξη του Η/Υ αλλά και από ένα πλήθος διαδικτυακών εφαρμογών, παρουσιάζει μια νέα διάσταση στην εκπαίδευση από απόσταση. Αυτές οι αναδυόμενες και σε εξέλιξη τεχνολογίες εμφανίζουν καινούργιες πρακτικές μεταξύ άλλων και στην περίπτωση του χορού. Το ερώτημα που τίθεται στο σημείο αυτό αφορά στο κατά πόσο μπορεί κάποιος, όχι απλώς να μάθει χορό μέσα από ένα διαδικτυακό κανάλι, αλλά τι χορό τελικά μαθαίνει. Σκοπός λοιπόν της εργασίας ήταν να μελετήσει τον ελληνικό παραδοσιακό χορό στο διαδικτυακό κανάλι του YouTube ως μάθηση «από υπολογιστές» (Computer Based Learning-CBL), με ειδική αναφορά στη λειτουργία του ως εργαλείο μάθησης, αλλά και ως διδακτικό αποτέλεσμα μέσα από το παράδειγμα του ελληνικού παραδοσιακού χορού Καραγκούνα. Για τον σκοπό αυτό, συγκεντρώθηκαν μέσω της παρατήρησης βίντεο χορού από το YouTube, ενώ χρησιμοποιήθηκε ως πρότυπο η εκτέλεση του χορού που έχει προκύψει από εθνογραφική έρευνα. Για τη σημειογραφία του χορού χρησιμοποιήθηκε το σημειογραφικό σύστημα του Laban (Labanotation). Για την

ανάλυση του χορού υιοθετήθηκε η δομικο-μορφολογική και τυπολογική μέθοδος του χορού, ενώ για τη σύγκριση των δεδομένων χρησιμοποιήθηκε η συγκριτική μέθοδος. Διαπιστώθηκε ότι τα βίντεο στο YouTube που προέρχονται από φορείς του εσωτερικού προσιδιάζουν με το πρότυπο σε αντίθεση με αυτά από φορείς του εξωτερικού. Καταληκτικά, για το διδακτικό αποτέλεσμα της μάθησης του χορού στο YouTube, θα πρέπει να λαμβάνονται υπόψη μια σειρά από παράμετροι όπως το χορευτικό υπόβαθρο του κάθε ατόμου, το πλαίσιο διδασκαλίας και μάθησης κ.ά.

Key-words: distance learning and teaching, information and communication technologies, YouTube, dance, Greek traditional dance.

Introduction

Social networks and social media based on web applications established in ideological and technological findings of the *Web 2.0 generation* constitute a trademark of today's digital mass culture and grant the production and exchange of content generated by each user (Kaplan & Heinlein, 2011). Websites like Facebook, Twitter, YouTube etc. predominate internationally for social, educational, entertainment and other purposes, providing the opportunity of (self)exposure and (self)projection to a wide range of audience. A typical example of the existing situation is YouTube (Davidson et al., 2010), the most popular website for video sharing and video common use in the world exceeding one hundred million video uploads per day (Burke & Snyder, 2008) that establishes a reference point for a participatory culture in the Internet via its spectacular number of video production (Shifman, 2011).

YouTube with its wide popularity offer, inter alia, new opportunities in education (Bonk, 2008) and is used as a learning tool for the classroom and a supplementary component of the overall learning procedure (Karppinen, 2005). Having a strong impact on both the mind and the senses (Berk, 2009), video sharing services inspire students and motivate them to participate in a course supporting their digital learning profile (Burke & Snyder, 2008). In addition, YouTube constitutes a major educational resource with which students today are fully identified with since the new generation, being so familiar with technology, can be considered as a generation whose computer language might be regarded as their *mother tongue* (Berk, 2009). In particular, Karppinen (2005, in Snelson, 2008) argued that "online and digital video can be integrated to promote meaningful learning, which was described as being: a) active, b) constructive and individual, c) collaborative and conversational, d) contextual, e) guided, and f) emotionally involving and motivating" (p.216). On these grounds, the extended electronic and virtual reality of the Internet deemed to various interconnection forms of different means and tools, is increasingly affecting teaching and learning processes composing a new quest for education and educational research (Sofos, 2013).

On the other hand, today's demands in education for greater flexibility in space, time and learning pace, have led in the enhancement or even replacement of face-to-face educational processes by distance learning practices (Anastasiades, 2007, 2014; Giossos, Mavroidis, & Koutsouba, 2008; Lionarakis, 2001, 2006; Red, 2005; Vergidis et al., 1998). The latter have been supported by the use of Information and Communication Technologies (ICT) through the computer networks and especially the Internet (Mouzakis, 2006), either as learning via computers (Computer Based Learning-CBL) or as learning with computers (Computer Assisted Learning-CAL) (Thomas Reeves, 1998, in Ringstaff & Kelley, 2002). From this point of view, the use of YouTube has been studied through various pedagogical theories, while constructivism (Piaget, 1964) seems to be fully applicable since the particular environment of YouTube constitutes a process of information research and discovery emphasizing on both actions and activities of the students themselves despite those among the teaching group (Glasersfeld, 1989; Jonassen, 1999). As Jonassen argued (1999, in Keengwe, Onchwari, & Wachira, 2008), "technology does not teach students; rather, students only learn when they construct knowledge, think and learn through

experience" (p.226). Nevertheless, like any other form of educational technology, the teaching value of YouTube largely depends on how it is used.

Among the videos uploaded in YouTube, one encounters the subject of dance as technology is creating a fertile creative background for artists, teachers or researchers focusing on the field (Bailey et al., 2009). However, the way in which art is created, produced, distributed, safeguarded and supported in the market, might take different turns when referring to the transition to a *digital society* (Poole, 2011). The field of dance could not remain unaffected from this taking into consideration that, throughout dance history, technology has always been a means for its identification, dissemination, storage or display, whether we are referring to written texts or dance recording systems or the use of image or video.

Historically, the use of technology in dance is recorded at the end of the 17th century and the beginning of the 18th in the creations and performances of Loie Fuller (1981's "Serpentine Dance" for instance), an American contemporary dance pioneer (http://en.wikipedia.org/wiki/Loie_Fuller). During the 19th century, dance was incorporated in theatre and cinema, i.e. Hollywood's musicals, Bollywood's movies and Maya Deren, Charles Atlas, David Hinton's etc. dance films (Bench, 2010). In the 1980s, a period with intense research interest for dance teachers, choreographers, researchers and other dance people, particular attention was paid to the use of video as a key means of documentation, analysis and promotion of dance. Moreover, at the same period, researchers or software developers published tools like LabanWriter (https://dance.osu.edu/research/dnb/laban-writer), Dance Forms and LifeForms (http://www.credo-interactive.com), which drew attention to the Laban's dance notation system (Labanotation) and the recording of dance. Processes concerning the rendering technologies with the incorporation of new concepts and the composition through the use of video-projectors, sensors or computer software initiated in the mid-90s (Birringer, 2002). Thereafter, the major storage and transmission of dance until that period took place through films, videos and various TV shows (Bench, 2010).

With the dawn of the 21st century, the capability of editing computer data and the global reach of the Internet led to new thinking and research approaches of dance. The presence of new technologies was radically debated concerning the relationship between body and spatial reality or that between humans and machines. Yet, what needs to be noted is that technology does not solve motion issues attempted through technological means for instance. Rather it is associated with the capacity of exploring interactive environments, virtual spaces and integrated approaches for all those involved with the field of dance (Birringer, 2002). In the past decade, studies have focused on ICT, including YouTube channel, examining the educational potential and needs of distance pedagogical frameworks in general (Leao, 2007; Popat & Smith-Autard, 2002) and in dance and Greek traditional dance in particular (Antoniou, 2014; Dania, Tyrovola, Koutsouba, & Hatzacharistos, 2012; Dania, Tyrovola & Koutsouba, 2013, 2015; Goulimaris, 2015; Goulimaris, Koutsouba, & Giosos, 2008; Koutsouba & Giossos, 2006). However, regarding the field of dance in relation to different social networks and social networking websites, the existing studies concern mainly the design and application of programs for online learning (Dimitropoulos, Kitsikidis, & Grammalidis, 2014; Grammatikopoulou, 2010; Kavakli, Bakoyannis, Damianakis, Loumou, & Tsatsos, 2004; Leao, 2007; Popat & Smith-Autard, 2002; Stavridou, 2009). Yet, a critical evaluation of the content of YouTube dance videos has not been carried out though what is eventually learned through YouTube is a key question (Gratsiouni, 2015).

The aim of this study was to critically examine the way YouTube network channel as Computer Based Learning functions both as a learning tool and as a teaching result concerning the field of dance. More specifically, it aimed, through the example of a Greek traditional dance named Karagouna, to assess what kind of dance can be learned on YouTube, whether what can be

learned is *correct* in terms of a dance performance that is stood in the dancing society and what are the prerequisites of the dance videos on YouTube in order to do so.

Methodology

Data collection was twofold. First, the comparator dance exemplar was defined. That was the form of Karagouna dance as this is performed by the local community. Karagouna is a female dance originating from central Greece and specifically from the area of Thessaly. According to Karfis (2014) and Dimopoulos (2011) that have carried out ethnographic research in Thessaly, Karagouna dance has a 4/4 music meter and is performed in open circle that moves predominantly to the right. The dance has six different ways in which it can be performed by the dancing community, i.e. community of Thessaly (Appendix 1). These six forms constituted the comparator dance exemplar of this study. In order to clarify and enhance the already existing ethnographic data, interviews with the two aforementioned researchers were carried out (Dimopoulos, 2014; Karfis, 2014).

Regarding the YouTube videos of the Greek traditional dance Karagouna, data were gathered through observation. In particular, the research process on YouTube followed six stages:

- In the first stage, all potential tags regarding the specific dance were searched in accordance to the options available on the website. If, for example, in the searching tool of the website the word *Karagouna* is typed, many more options related to the initial search are automatically loaded. Hence, in this process, 15 related to the term tags in total have been recorded. Ten (10) tags were in Greek (Καραγκούνα) and 5 in English (Karagouna). The search was carried out from the 21st of November until the 27th of December 2013.

- At the second stage, as thousands of videos were found under these tags, a selection took place based on the following criteria related to dance itself: (a) the title of the video should include the term *Karagouna* in any version, (b) the video should exclusively present the dance *Karagouna* itself and not relate to any kind of event in general e.g. a festival, (c) the video should show the movement of the whole body and not its parts separately (legs, upper body etc.) and (d) video sound and image should be distinct. 772 videos on YouTube of the Karagouna dance were thus revealed.

- At a third stage, the 772 videos were classified with all the necessary information related to them: (a) the title of the video, (b) the Uniform Resource Locator (URL), (c) respective institution (if any) (d) the uploader (the user which uploads the video), (e) information provided concerning the origin of the video, (f) views in total (how many people have seen each video), (g) date of posting (when it has been uploaded), (h) register date (when the researcher listed the video), (i) the video in mp4 format with audio and image and (j) the application of *like/dislike* (registered users vote for or against the video).

- In the fourth stage, these 772 videos have been sorted out. It was found that the total of 772 videos was in fact 190 different videos which through various combinations were shown in the diverse tags, i.e. there were same videos *uploaded* by different users in different tags.

- In the fifth stage, the 190 videos were additionally classified based on the following two criteria: (a) videos most viewed on YouTube and (b) videos found in almost all 15 searches-tags of the dance on YouTube. These two criteria related to the use of YouTube since both the number of views and the frequent occurrence in searches-tags refers to the user's accessibility to them, a fact with great importance for the examined issue. In this stage it was revealed that 7 videos were the most viewed (above 50,000) (criterion a), while 20 videos found in almost all tags (criterion b).

- In the sixth stage, 19 videos of *Karagouna* dance on YouTube that met both the criterion of mostly viewed on YouTube along with the criterion of frequent search occurrence in all 15 searches-tags of the dance on YouTube were chosen for further analysis and study (see Appendix 2). Among these videos, twelve (12) were from Greek institutions and seven (7) from institutions abroad.

The Karagouna dance of these 19 YouTube videos was then recorded, analyzed and compared with the exemplar. For the recording, Laban's notation system called Labanotation was used. Labanotation is an internationally recognized system for recording movement and dance on paper (Hutchinson, 1977; Hutchinson-Guest, 1984; Koutsouba, 2005) which, through the use of abstract symbols, captures and represents the movements of all parts of the body in space and time. In that way, Labanotation captures the structure and thus the *construction of the dance* in relation to its musical accompaniment (Koutsouba, 2003, 2005; Tyrovola & Koutsouba 2007). Below is an example of the recording of one of the 19 YouTube videos of Karagouna dance with Labanotation (see Figure 1).
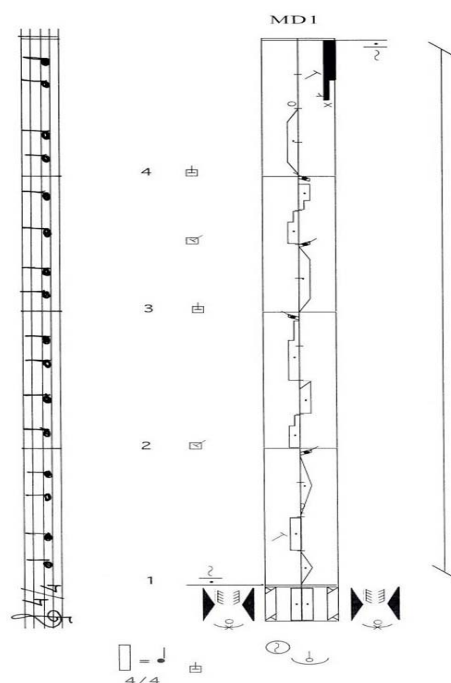

Figure 1. Labanotation of dance "MD1 – Dimotika Thessalias, 02, 'Karagkouna'"

After their recording with Labanotation, the dance performances of all the 19 videos were analysed by using the structural-morphological and typological method (Tyrovola, 1994, 2001; Koutsouba, 1997, 2007). Structural-morphological and typological method concerns the structure and form of the dance. It constitutes a synthesis of previous methods, i.e. the one introduced by the IFMC Study Group for Folk Dance Terminology (1974) concerning the relationship between dance and music and three presented by Giurchescu (1986), Sanchez-Colberg (1992) and Adshead et al. (1988) regarding the classification of the dance components. Below is an example of the analysis of one of the 19 YouTube videos of Karagouna dance based on the structural-morphological and typological method (see Table 1 & 2).

Table 1: Codification and typology of dance "MD1 – Dimotika Thessalias, 02, 'Karagkouna'"

$$\text{M1 - Dimotika Thessalias, 02, "Karagkouna"}$$

$$F = \underset{\rightarrow}{M1}\ [(\delta^{1/4}\text{-}\alpha{>}\delta^{1/4})+\delta^{2/4}] + \underset{\rightarrow}{M2}\ [(\overrightarrow{\alpha^{1/4}}\text{-}\delta{>}\alpha^{1/4})+\overrightarrow{\alpha^{2/4}}] +$$

$$\underset{\rightarrow}{M3}\ [\delta^{2/4}+\{\overrightarrow{\alpha(\delta)}^{\chi1/4} - \delta^{1/4}\}] + \underset{\leftarrow}{M4}\ [\overset{\curvearrowleft}{\alpha_o}{}^{2/4}+\underset{\underbracket}{(\alpha_o)}\delta_4{}^{2/4}]$$

Table 2: Components of dance "MD1 – Dimotika Thessalias, 02, 'Karagkouna'"

Components of dance	Dance MD1 - Dimotika Thessalias, 02, "Karagkouna"
Movement	**Movements:** Moderate, slow leg movements with simple movements in space, postures and low deadlifts. The body is in upright position **Space:** Circular shape, open circle directed towards the right. Group dance that characterized by the participation of many people. **Time:** Meter of the dance music: 4/4 Music tempo: Slow and steady intensity
Dancers	**Gender:** women only **Handhold:** From the palms with stretched elbows (handhold M). From the palms with elbows bent between first and second dancer (handhold W)
Visual environment	**Performance area:** Studio-Television show **Costumes:** Traditional costume for Karagouna women
Audio elements	**Music accompaniment:** Accompanied by live traditional music with song
Complex	**Model of dance form:** homogenous chain dance form, i.e. one dance phrase that is repeated **Choreography:** Continuous repetition of the dance phrase throughout the dance performance

Finally, for the comparison of the Karagouna dance performances examined from YouTube with the exemplar of the dancing community, the comparative method was used (Collier, 1993; Thomas & Nelson, 2003). In particular, the recordings with Labanotation, the structural-morphological and typological analysis and the dance components of each one of the 19 YouTube videos of Karagouna dance was compared with the six forms constituted the comparator dance exemplar of the present study.
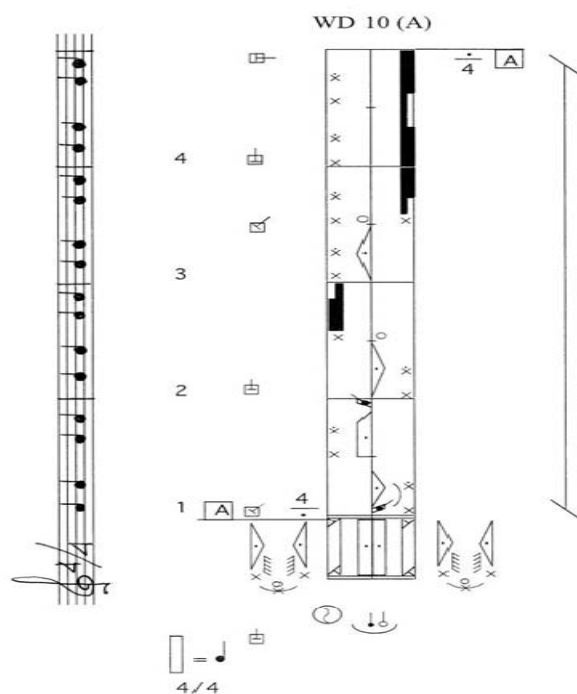
Results

The YouTube search of one Greek traditional dance, Karagouna, revealed a large number of videos, a finding showing the active presence of dance in general and of Greek traditional dance in particular on YouTube.

However, the comparison of the recordings with Labanotation, the structural-morphological and typological analysis and the dance components of each one of the 19 YouTube videos of Karagouna dance with the six forms that constituted the comparator dance exemplar of the present study, i.e. the dance as it is performed by the local community, showed that twelve (12) matched to one of the six forms of the exemplar. These videos presented the same characteristics in terms of the performance as well as in terms of the construction of the dance, i.e. performed by women, danced with the use of similar movements etc. For instance, the performance of Karagouna dance in no1 YouTube video, i.e. "MD1-Dimotika Thessalias, 02, 'Karagkouna'" (see

Figure 1 and Tables 1 & 2) corresponds to the exemplar 5 (see Appendix 1) since both present the same characteristics: a dance phrase performed by women that have 11 movements organized in two groups (kinetic motifs) that are completed in 4 musical meters.

On the other hand, seven (7) YouTube videos of Karagouna dance did not match to any of the six forms of the exemplar, presenting different characteristics in their performance and/or their construction, i.e. performed by men and women, danced with the use of different movements etc. For instance, in the YouTube video no 10 (see Figure 2 and Tables 3 & 4), the dance form of Karagouna dance consists of three parts, while all the six forms of the exemplar have one part. Moreover, the comparison showed that there was only one similarity with the exemplar, that was Part A corresponding to the exemplar 2 as both presented similar characteristics (a dance phrase that has 8 movements organized in four groups, i.e. kinetic motifs, that are completed in 4 musical meters), while Part B and C did not match to any form of the exemplar. Furthermore, both Dimopoulos (2014) and Karfis (2014) argued that this video dance form "constitutes a choreographic devise that is usually called the 'Karagouna dance of the school'. This choreography has been adopted mainly for school events so as to be more impressive".
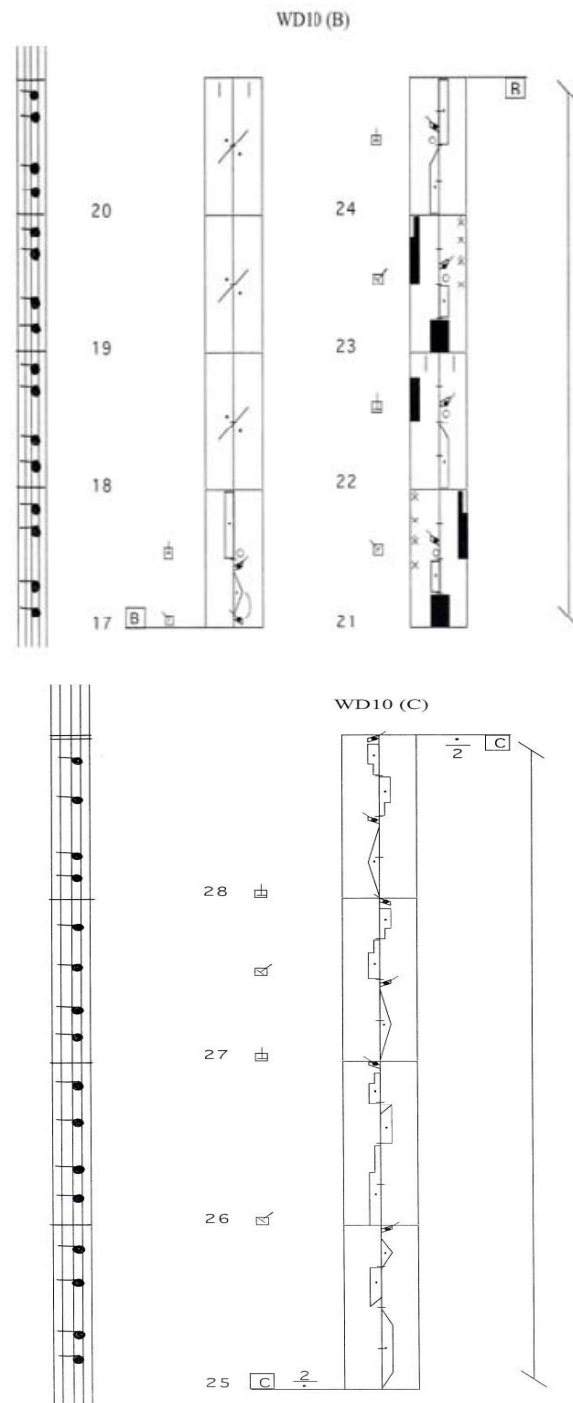
Figure 2. Labanotation of dance "WD10 – Karagouna"

Table 3: Codification and typology of dance "WD10 – Karagouna"

$$W10 - Karagouna$$

$$F1 = W1\,[\delta^{2/4}+\alpha^{2/4}] + W2\,[\delta^{2/4}+(\delta)\alpha_2^{2/4}] +$$
$$W3\,[\alpha_o^{2/4}+(\alpha_o)\delta_\Lambda^{2/4}] + W4\,[(\alpha_o)\delta_2^{2/4}+(\alpha_o)\delta_\Lambda^{2/4}]$$

$$F2 = W1\,[(\delta^{2/4}+(\delta):\alpha_4)^{2/4}] + W2\,[\delta^{2/4}+(\delta:\alpha_4)^{2/4}] + W3\,[(\delta^{2/4}+(\delta):\alpha_4)^{2/4}] +$$
$$W4\,[(\delta^{2/4}+(\delta):\alpha_4)^{2/4}] + W5\,(\delta:\alpha)^{2/4}+\alpha^{2/4}) + W6\,(\delta_o^{2/4}+(\delta_o):\alpha_4^{2/4})$$
$$+ W7\,(\delta:\alpha)^{2/4}+\delta^{2/4}) + W8\,(\alpha^{2/4}+(\alpha):\delta_4^{2/4})]$$

$$F3 = W1\,[\delta^{2/4}+(\alpha^{1/4}-\delta^{1/4})] + W2\,[\alpha^{2/4}+(\delta^{1/4}-\alpha^{1/4})]+$$
$$W3\,[\delta^{2/4}+\{\alpha(\delta)^{\chi1/4}-\delta^{1/4}\}] + W4\,[\alpha_o^{2/4}+\{^\chi(\alpha_o)\delta^{1/4}-\alpha_o^{1/4}\}]$$

Table 4: Components of dance "WD10 – Karagouna"

Components of dance	Dance WD10 – Karagouna
Movement	**Movements:** The dance consists of three parts. Part A has steps, pauses and lifts of the feet. Part B has steps, pauses, lifts of the feet in low level and jumps, while there is change in directions. Part C has quick steps **Space:** Open circle that moves towards the right. Group dance that characterized by the participation of many people. **Time:** Music meter in 4/4 with slow tempo and steady intensity in Part A and B and quick in Part C
Dancers	**Gender:** Men and women mixed up. **Handhold:** From the palms with elbows bent (handhold W)
Visual environment	**Performance area:** Classroom **Costumes:** Daily uniform
Audio elements	**Music accompaniment:** Accompanied by organic traditional music with song and sound system
Complex	**Model of dance form:** A three part, alternating dance form with the parts being heterogeneous **Choreography:** Three parts, each one constituting one dance phrase this is repeated 4 times in Part A, 2 in Part B and Part C, while altogether is repeated for three times

It should be also noted that the twelve (12) that match to the exemplar were from Greek institutions, while the seven (7) from institutions abroad did not.

Discussion-Conclusion

Distance learning through the support of technological media can be used either supplementary or exclusively in all stages and forms of education as well as an independent process through which each user-learner opts for the means of learning by the use of computers and the Internet. The latter procedure is directly connected to the aim of this study since one can learn dance via YouTube videos. The question though was what kind of dance one learns (Gratsiouni, 2015). The aim of this study was to critically investigate the way YouTube network channel as Computer Based Learning functions both as a learning tool and as a teaching result concerning the field of dance. For that purpose, through the example of a Greek traditional dance named Karagouna, it was assessed what kind of dance can be learned on YouTube, whether what can be learned is *correct* in terms of a dance performance that is stood in the dancing society and what are the prerequisites of the dance videos on YouTube in order to do so. The results showed that there is a high degree of user's accessibility to YouTube videos of Karagouna dance, thus these videos can be used for learning reasons. Yet the learning outcome differs. The comparison between the Karagouna dance in YouTube videos and as it is performed by the local community

showed that not all dance forms being uploaded on the channel matched to those being adopted by the dance community. This finding points out that though someone with little or no relation to dance is likely to learn dance with the use of YouTube, it is questionable what kind of dance will actually learn since, in many cases, the dance videos do not correspond to the performance of the dancing community. On the other hand, the outcome is different if someone with prior knowledge on the dance field (dancer, dance teacher, dance student etc.) uses YouTube as a teaching and learning tool as, in this case, its use is useful and interactive.

Based on the above, it is proved that the study of Greek traditional dance as learning from computers fully responds to the framework determined by the YouTube network. This independent learning process that defines *students* as *teachers* and serves to increase the basic skills and knowledge of learners, functions positively on the subject of Greek traditional dance in general since YouTube, as a learning tool but also as a projection tool, creates new learning practices of Greek traditional dance. Without any doubt, this multilevel and multifocal YouTube procedure in the light of aestheticization, disclosure, reproduction and communication, composes a form of creativity and discovery of new practices for dance (Papakostas, 2012) and dance distance education that were confirmed through the study of the dance Karagouna.

However, the answer to the question whether or not a network user and specifically YouTube user may identify the *correct* dance form in order to learn dancing depends on the presence or absence of a dancing background of the user. It is proved that certain prerequisites such as the cultural background and the dance knowledge of the people, the teaching-learning context in which the videos are used etc., should be met so as to give credentials to this kind of learning, at least in the case of the subject matter of dance.

In conclusion, the rapid and increasing use of technology and the Internet from people of all ages imposes the adjustment, adoption and incorporation of new data in learning practices. Although some may stand critical towards the new achievements as learning tools, research demonstrates the contrary by illustrating through the means of distance learning and the use of ICT new, attractive and creative methods of learning. Based on the demands of an ever changing society through the rapid spread of the Internet, the necessity of the incorporation of dance becomes explicit along with the Greek traditional dance in the contemporary situation under certain conditions though. In any case, the study of dance in general and of Greek traditional dance in particular, constitutes an unprecedented and growing field of research that opens new perspectives in the study and research forming a new framework of the presence of dance, that of the Internet.

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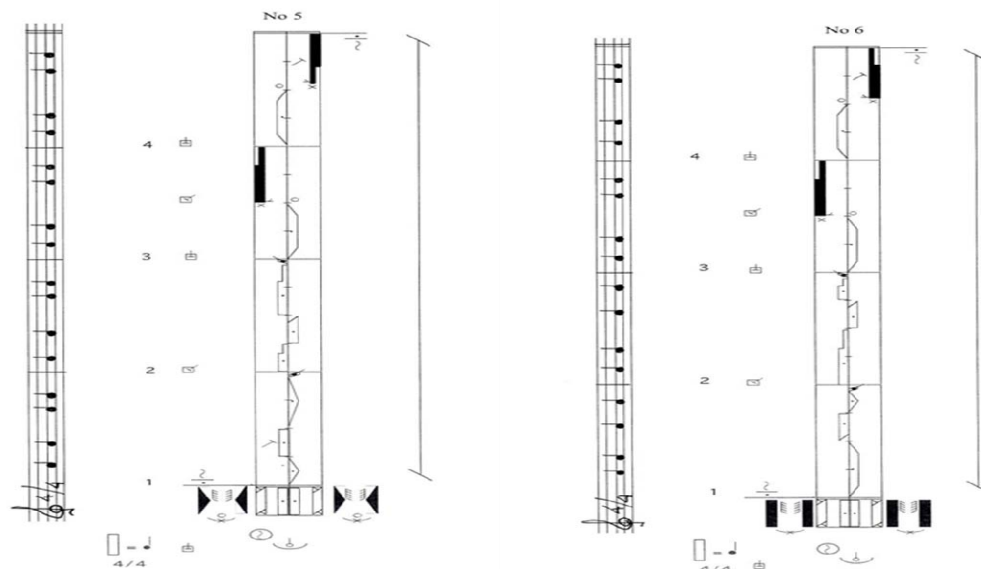## Appendix 1. Exemplar of Karagouna dance with six different ways

Appendix 2. Under study Karagouna dance videos from YouTube

no	Title	Link (URL)	Institutions	Views	Date posted	Date recovery
1.	DimotikaThessalias, 02, "Karagkouna"	www.youtube.com/watch?v=IHIz_1ds7v0	In Greece	154.597	9.6.2009	21.11.2013
2.	Δημοτικά Θεσσαλίας, 08_''ΚΑΡΑΓΚΟΥΝΑ''	www.youtube.com/watch?v=sy7fcF7CLOM	In Greece	58.464	20.3.2011	21.11.2013
3.	Karagouna	www.youtube.com/watch?v=oQzc4Tz0A_Q	Outside Greece	78.880	31.8.2007	28.11.2013
4.	Greek Folk Dance-Karagouna	www.youtube.com/watch?v=7odP0F16igw	Outside Greece	109.022	21.9.2007	28.11.2013
5.	Karaguna Καραγκούνα	www.youtube.com/watch?v=O9DBL0nCoOw	In Greece	79.446	17.12.2008	21.11.2013
6.	Καραγκούνα -''Στην Υγειά μας'' - Χ.Ο.ΤΡΙΚΑΛΩΝ 5.1.12.wmv	www.youtube.com/watch?v=OhRj_Spl-AQ	In Greece	7.021	7.1.2012	21.11.2013
7.	Η Σβαρνιάρα (Καραγκούνα) με την Βασίλω 14/12/2012	www.youtube.com/watch?v=vVGhcnmGy3w	In Greece	3.940	14.12.2012	21.11.2013
8.	Καραγκούνα πάει να πλύνει: Γεωργία Μηττάκη.avi	www.youtube.com/watch?v=Wt1cMHfBYEg	In Greece	6.582	26.1.2012	21.11.2013
9.	ΣΒΑΡΝΙΑΡΑ (ΚΑΡΑΓΚΟΥΝΑ) - ΧΡΥΣ. ΜΗΤΡΟΠΑΝΟΣ-''ΑΣΚΛΗΠΙΟΣ''-2013	www.youtube.com/watch?v=sYA2OVeFvqw	In Greece	1.580	24.5.2013	21.11.2013
10.	Karagouna	www.youtube.com/watch?v=H7JUeWPMIfc	Outside Greece	16.274	12.11.2008	28.11.2013
11.	Καραγκούνα - Θεσσαλία	www.youtube.com/watch?v=ODXyoy3kPEo	In Greece	31.312	4.5.2012	21.11.2013
12.	ΚΑΡΑΓΚΟΥΝΑ. .Σεμινάριο παραδοσιακών χορών με τον ΣΑΚΗ ΠΑΛΗΟΓΙΑΝΝΗ 25-4-2013	www.youtube.com/watch?v=1l77UnrmcT0	In Greece	327	27.4.2013	21.11.2013
13.	Karagouna (by Meltemia dancers and Souvlaki Orchestra)	www.youtube.com/watch?v=2hW8-grX6q8	Outside Greece	901	25.5.2012	28.11.2013
14.	Καραγκούνα - Χορευτικός Όμιλος Τρικάλων - 2011.wmv	www.youtube.com/watch?v=xryb5ILVLNM	In Greece	700	17.12.2011	21.11.2013
15.	GreekFolkDance "Karagouna" • Грьцкитанц "Карагуна" • Грчкаигра "Карагуна"	www.youtube.com/watch?v=0_TsK7dWEvo	Outside Greece	235	5.5.2013	28.11.2013
16.	Άντε Καραγκούνα	www.youtube.com/watch?v=fmgLSQnPXo4	In Greece	3.223	9.10.2012	21.11.2013
17.	Καραγκούνα: Κλαρίνο Σπύρος Αναστασίου.avi	www.youtube.com/watch?v=r_DroNyEkc4	In Greece	1.731	26.1.2012	21.11.2013
18.	"Karagouna" Greek Dance at International Folk Dance Club, Toronto	www.youtube.com/watch?v=1zLKzUJNTpU	Outside Greece	464	29.11.2012	28.11.2013
19.	Karagouna SIFDAC CA State Fair 2006	www.youtube.com/watch?v=6A6ZSn5IMKA	Outside Greece	411	8.5.2012	28.11.2013