Implementing mobile-assisted language learning (MALL) in an EFL context: Iranian EFL teachers’ perspectives on challenges and affordances

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The implementation of computer-assisted language learning (CALL) has provided tremendous opportunities for language teachers to promote their computer literacy and adopt a learner-centered approach to teaching. Accordingly, with the rising advent of language learning technologies, language teachers would occupy a fundamental role in preparing and encouraging students to use various technologies for language learning purposes. In particular, the purpose of this study is to explore the attitudes of Iranian English as a foreign language (EFL) teachers toward the implementation of mobile-assisted language learning (MALL). The survey target participants were 168 EFL teachers who worked in a number of language teaching institutions in Iran. In-depth interviews with 55 EFL teachers were conducted as well. The findings from the survey and interview studies indicated moderately positive attitudes of the participants toward the use of mobile phones for language learning and teaching. The findings suggest that the presence of a couple of perceived challenges might be the reason for the nonuse of mobile phones for EFL learning and teaching in Iran. The teachers’ reported that they do not use any kind of MALL activities or software programs in their EFL courses. Results demonstrated that the EFL teachers did not have the required skills to use/develop MALL activities. The paper proposes recommendations and suggestions on how to implement MALL and remove potential barriers to MALL implementation in EFL contexts.

Introduction

Kukulska-Hulme and Shield (2008) define MALL as “the use of technologies such as
They also argue that the use of mobile phones in language teaching is the most investigated area of research in the literature of MALL. Accordingly, CALL researchers and experts have expressed interest in the implementation of MALL in EFL contexts (Stockwell & Sotillo, 2011). This popularity of the implementation of MALL is due to the learning opportunities and affordances that mobile phones would create for language learners. Specifically, the use of mobile phones in language learning provides teachers and learners with substantial educational benefits, including the possibility of recording and playing audios, low costs, portability, learner friendliness, easy access, and interactivity (Kukulska-Hulme & Shield, 2008; Stockwell, 2010; Wishart, 2008). Research has suggested that the use of mobile phones enables language learners to make communication with their teachers and peers more easily and conveniently. MALL researchers assert that this ease of communication with teachers and peers is a major affordance of the utilization of mobile phones for language learning (Nah, White, & Sussex, 2008; Rosell-Aguilar, 2007). As a consequence, the existence of these affordances has inspired EFL researchers to evaluate the suitability of the use of mobile phones to enhance the quality of learning and teaching.

Despite general acceptance of the implementation of MALL in EFL contexts, a number of EFL experts have pointed out considerable challenges to the use of mobile phones for language learning and teaching. As Stockwell (2008) argues, one major obstacle to the use of mobile phones for language teaching is students’ reluctance to use mobile phones for their educational and academic purposes. Thornton and Houser (2002) assert that the small screen size of mobile phones would create another challenge to the implementation of MALL. High cost of the use of mobile phones for educational purposes might discourage students and teachers from implementing MALL in EFL courses accordingly (Stockwell, 2007). Similarly, limited presentation of graphics of mobile phones may act as another impeding factor (Albers & Kim, 2001).

Alternatively, some MALL researchers believe that the use of mobile phones for language learning might facilitate the process of language learning while possible challenges can be accommodated or alleviated (e.g., Stockwell, 2008; Stockwell, 2012; Thornton & Houser, 2005). Stockwell (2012) maintains that new technologies are emerging while new types of practical constraints might appear. Unavoidably, as Stockwell (2012) points out, “mobile learning will continue to take on new shapes and forms as it becomes more familiar to both teachers and learners” (p. 30). Therefore, it is expected that most limitations of mobile phones for language learning will disappear in the future.

Previous research

Although a substantial body of research has been undertaken regarding students’ acceptance of and satisfaction with technology use in educational contexts, the issue of teachers’ perceptions about the use of technology for educational purposes has remained less investigated. The findings related to research on teachers’ attitudes toward the use of technology for educational purposes suggest that there is a general consensus among the majority of teachers over the suitability of technology use for EFL and educational purposes in Asia and other parts of the world (e.g., Aydin, 2012; Eugene, 2006; Hu, Clark, & Will, 2003; Kim, 2002; Ismail, Almekhlafi, & Al-Mekhlafi, 2010; Motaghian, Hassanzadeh, & Moghadam, 2012; Pynoo, Devolder, Tondeur, Van Braak, Duyck, & Duyuk, 2011; Park & Son, 2009; Simonsson,
Technology has been regarded as a beneficial and effective teaching aid which would offer a number of affordances and merits for both teachers and students.

More specifically, regarding EFL teachers' perceptions of the implementation of CALL and educational technology in the Middle East, Dashtestani (2012) investigated Iranian EFL teachers' perspectives on possible challenges and affordances of the implementation of CALL. The findings showed that Iranian EFL teachers held positive attitudes toward CALL implementation and the use of technology in EFL courses. Despite teachers' general acceptance of technology use for language learning and teaching, the presence of a number of challenges, including “time constraints, lack of computer-based facilities, lack of financial and technical support, inadequate teacher training programs, and rigid curricula” (p. 65), impeded the process of integration of technology into Iranian EFL instruction. In the UAE, Ismail et al. (2010) explored language teachers’ attitudes toward technology integration. They concluded that teachers considered the use of technology as an effective approach to enhancing the quality of teaching and learning languages. With regard to the Syrian educational context, Albirini (2006) found that Syrian teachers welcomed technology incorporation into their teaching practices and showed positive attitudes toward it.

Accordingly, an enormous amount of research has been carried out on teachers’ perceptions of mobile leaning in various educational contexts. However, to date, very limited research has been conducted on the issue of language teachers’ perceptions of MALL/mobile learning implementation in EFL contexts. Although the findings of research on teachers’ attitudes toward mobile learning have demonstrated general acceptance and satisfaction, the findings of some studies show that teachers express concerns over the implementation of mobile learning. For instance, Seppälä and Alamäki (2003) explored teacher trainees’ perspectives on the use of mobile technology for educational purposes. The findings indicated that the teachers held positive attitudes toward delivering digital pictures through the use of short message service (SMS). The researchers proposed that mobile learning is an interesting area of research which requires more attention and investigation. In Cyprus, Serin (2012) analyzed teachers’ acceptance of mobile learning. The teachers had limited knowledge and information of mobile learning. It was reported that some teachers believed that the implementation of mobile learning might reduce the quality of communication in the classroom. In addition, Şad and Göktaş (2013) investigated pre-service teachers’ preference for the use of either laptops or mobile phones. It was reported that the teachers adopted more positive attitudes toward the use of laptops than mobile phones. The need for awareness-raising on the use of mobile phones for teaching purposes was considered necessary. In a qualitative study using interviews, Tai and Ting (2011) studied language teachers’ attitudes toward mobile-assisted language learning and its challenges in Taiwan. They reported that the teachers perceived that the use of mobile technology improved the process of language teaching. The teachers also pointed out some challenges to the adoption of mobile technology, including “the changing role of the mobile device, technical difficulties, pedagogical potential, and workload” (p. 15). The study revealed that potential challenges and obstacles to the application of mobile technology for language teaching should be accommodated and removed in order to facilitate the process of technology integration into language teaching contexts.

Furthermore, investigating the perceptions of educators about mobile learning was the focus of the study conducted by Zulkafly, Koo, Shariman, and Nazri (2011). They pointed out that educators adopted positive perspectives on the implementation of mobile learning. The educators welcomed the application of new approaches to teaching and learning.
In Malaysia, the issue of teachers’ readiness for and acceptance of using mobile phones for educational purposes was explored. Ismail, Azizan, and Azman (2013) reported that even though Malaysian teachers regarded mobile learning as beneficial and efficient, they did not have the required readiness for the use of mobile phones for educational purposes. There was a considerable correlation between teachers’ motivation for and awareness of technology and their readiness for the implementation of mobile learning. Following the same research line, Cruz, Assar, and Boughzala (2012) analyzed teachers’ perceptions of mobile learning in a business school. The teachers reported that the implementation of mobile learning would have several benefits for students. Availability, enhanced communication opportunities, and interactivity were the perceived merits of mobile learning. However, the teachers pointed out that there were a wide range of technological, individual, instructional, and pedagogical challenges to the efficient implementation of mobile learning.

Thomas and Bolton (2012) investigated teachers’ attitudes toward the use of mobile phones in the class. They identified that the teachers supported the use of mobile phones for educational purposes. The teachers believed that the use of mobile phones would increase students’ motivation and participation. The obstacles to the use of mobile phones included high costs of and lack of access to mobile phones. Goad (2012) assessed teachers’ attitudes toward the application of mobile technology for educational purposes. A positive correlation existed between teachers’ use of mobile technology and their ability to use it efficiently. Additionally, teachers had different proficiency levels in using mobile technology for their teaching purposes. Another study which has been directed to teaching and teachers has been conducted by Tai (2012). He has used a task-based approach to designing a contextualized MALL practice. The results of the evaluation of the effectiveness of this contextualized MALL practice showed that contextualizing MALL practices would enhance language learning and improve students’ motivation. However, the study aimed at developing MALL practices that improve language teaching and motivate learners to learn more effectively. He suggested that the study can be a reference for language teachers on how to develop new kinds of MALL practices.

Obviously, language teachers’ attitudes toward a certain technology can have considerable effects on students’ use of that technology in the future. “Considering the pivotal role of EFL teachers in language teaching contexts, EFL teachers who take positive attitudes toward technology can encourage their students to use technology in their learning practices accordingly” (Dashtestani, 2012, p. 65). Therefore, language learners’ attitudes toward technology should not be considered detached from teachers’ perspectives on technology. Similarly, insights have been provided into language learners’ perceptions of MALL implementation and mobile learning while very little has been investigated on teachers’ perceptions of the use of mobile phones in language learning and teaching. Language teachers can develop appropriate and context-based mobile-assisted tasks and activities which would encourage language learners to use mobile phones for their language learning. At least, language teachers would have the ability to make EFL students aware of possible affordances and uses of mobile phones for language learning.

To date, to the knowledge of the researcher, very limited research has been undertaken to evaluate the perceptions of language teachers on the implementation of MALL. Furthermore, there is a serious lack of research on the issue of MALL implementation in the Iranian language teaching and learning contexts. Accordingly, the current study is an attempt to provide insights into Iranian language teachers’ perceptions on the implementation of MALL.
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in EFL courses. Possible challenges which might impede the implementation of MALL from the perspectives of language teachers have been identified and discussed.

The following research questions were formulated to achieve the aims and objectives of this study:

1. What are the attitudes of Iranian EFL teachers’ about the use of mobile phones in the Iranian EFL context?
2. What are the perceptions of Iranian EFL teachers on the possible challenges to the use of phones in the Iranian EFL context?
3. What are the perceptions of Iranian EFL teachers on the current state of using mobile phones in the Iranian EFL context?
4. What are the perceptions of Iranian EFL teachers on their ability to develop/use MALL activities/software in the Iranian EFL context?

The study

Research design and instruments

The current study is based on a mixed-methods research design using questionnaires and interviews. The use of two instruments was considered in order to conduct a methodological triangulation of the data. Methodological triangulation would provide researchers with validated and enriched data (Best & Kahn, 2006). Specifically, the aim of the study was to provide both qualitative and quantitative data on the perceptions of Iranian EFL teachers of the implementation of MALL.

The design of the questionnaire came from reviewing previous research and theoretical foundations on mobile-assisted language learning (e.g., Kukulska-Hulme & Shield, 2008; Stockwell, 2007; Stockwell, 2010; Wishart, 2008). The content of the survey was validated by a team of seven EFL and educational technology university professors. Several evaluation sessions were held and the content and layout of the questionnaire were improved significantly after receiving feedback from the team of experts. The 27-item survey consisted of four sections based on a Likert-scale format. The first section (Cronbach Alpha = 0.85, 10 items) explored EFL teachers’ attitudes toward the use of mobile phones for language learning/teaching and was based on a four-point Likert scale format from strongly disagree to strongly agree. The second section (Cronbach Alpha = 0.82, 10 items) analyzed EFL teachers’ perspectives on the challenges to the use of mobile phones for language learning/teaching based on a four-point Likert scale format from strongly disagree to strongly agree. The third section (2 items) examined EFL teachers’ perceptions of the current use of mobile phones for their EFL courses. The items of this section were based on a five-point Likert scale format from never to always. The last section (Cronbach Alpha = 0.79, 5 items) sought EFL teachers’ perceptions of their ability to use/develop MALL activities and software tools. This section was based on a five-point Likert scale format from not proficient to very proficient (Appendix 1).

The interview study was designed based on the same literature review. The interview was based on a semi-structured format and open-ended questions were used to collect the data. For triangulation purposes, the interview questions followed the same aims and objectives of the survey study. Similar to the questionnaire study, seven EFL and educational technology university professors validated the content of the interview questions. The following questions were asked to assess the perceptions of the participants:
1. What do you think about the use of mobile phones for the EFL contexts? What are the possible benefits?
2. What do you think are the challenges to using mobile phones for language learning/teaching?
3. What kinds of mobile-based activities do you use in your EFL courses?
4. What kinds of mobile-based activities do your students use in your EFL courses?
5. What do you think about your ability to use/develop mobile-based activities and software in your EFL contexts?

Sample

The questionnaire participants for this study included 168 EFL teachers from 13 different language teaching institutions in Iran. The participants accepted to take part in the questionnaire study voluntarily. The cluster method of sampling was used for the selection of the participants of this study. Based on their reports in the questionnaire, the teachers had an average of 9.12 years of teaching experience. The average age of the participants was 35.7 years. The participants also had an average of 8.5 years of using mobile phones. All these teachers were those who had participated in language teaching training/education courses before their employment. The sample comprised 96 female and 72 male participants. While 108 participants had studied English-related majors, 60 participants had studied majors not related to English at university. A total of 81 EFL teachers were MA/MS holders and 87 teachers were BA/BS holders. Only teachers who had more than 2 years of teaching English were included in the study. These EFL teachers taught English as a foreign language at different levels of proficiency. The teachers further reported that their levels of English language proficiency were upper-intermediate or advanced.

After the questionnaire administration phase of the study, the same teachers were invited to participate in the interview study. After ensuring their voluntary participation, 55 EFL teachers accepted the invitation to take part in the second phase of the study.

Data analysis and procedures

The mean, standard deviation, and percentages were used to analyze the results of the questionnaire study. SPSS 16 was used for the data analysis. The results of interviews were analyzed based on content analysis and reporting the emerging themes. After recording and transcribing the interviews, the emerging themes which could be used for the purposes of the study were identified and reported. In different parts of the findings section, the original statements made by the participants were included to enrich the data.

Findings

EFL teachers’ attitudes toward the use of mobile phones for language learning/teaching

Results of the questionnaire study. Based on results of the questionnaire concerning the EFL teachers’ attitudes toward the implementation of MALL, the total mean of the section (2.651) shows that the EFL teachers have moderately positive attitudes toward the implementation of MALL. The teachers held positive attitudes toward some affordances of the
use of mobile phones for EFL including facilitation of learning, portability, use of multimedia, time-efficiency, possibility of connecting to the Internet, and possibility of ubiquitous learning for language learners. However, 39.3% of teachers disagreed that mobile phones can be used for teaching different language skills (Table 1).

Table 1: EFL teachers’ attitudes toward the use of mobile phones for EFL contexts

<table>
<thead>
<tr>
<th></th>
<th>Strongly disagree (%)</th>
<th>Disagree (%)</th>
<th>Agree (%)</th>
<th>Strongly agree (%)</th>
<th>Mean</th>
<th>SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>The use of mobile phones will facilitate the process of language learning</td>
<td>12.5</td>
<td>19</td>
<td>43.5</td>
<td>25</td>
<td>2.80</td>
<td>0.96</td>
</tr>
<tr>
<td>Portability is an important property of mobile devices</td>
<td>8.3</td>
<td>13.4</td>
<td>41.7</td>
<td>36.3</td>
<td>3.07</td>
<td>0.91</td>
</tr>
<tr>
<td>The use of mobile phones can create interactive learning environments</td>
<td>16.1</td>
<td>29.1</td>
<td>49.4</td>
<td>5.4</td>
<td>2.43</td>
<td>0.82</td>
</tr>
<tr>
<td>The multimedia used in mobile phones is useful for EFL learning</td>
<td>6</td>
<td>11.3</td>
<td>58.3</td>
<td>24.4</td>
<td>3.01</td>
<td>0.78</td>
</tr>
<tr>
<td>Scaffolding can be provided for each learner through the use of mobile phones for language teaching</td>
<td>17.3</td>
<td>31</td>
<td>47</td>
<td>4.8</td>
<td>2.31</td>
<td>0.81</td>
</tr>
<tr>
<td>Mobile phones can be used to teach/learn different language skills</td>
<td>21.4</td>
<td>39.3</td>
<td>26.8</td>
<td>12.5</td>
<td>2.32</td>
<td>0.95</td>
</tr>
<tr>
<td>The use of mobile phones for language teaching/learning is cost-effective</td>
<td>17.9</td>
<td>45.8</td>
<td>29.8</td>
<td>6.5</td>
<td>2.26</td>
<td>0.83</td>
</tr>
<tr>
<td>The use of mobile phones for language teaching/learning is time-efficient</td>
<td>10.1</td>
<td>20.8</td>
<td>44.6</td>
<td>24.4</td>
<td>2.83</td>
<td>0.91</td>
</tr>
<tr>
<td>Mobile phones can be connected to the Internet at any time</td>
<td>3</td>
<td>11.9</td>
<td>40.5</td>
<td>44.6</td>
<td>3.27</td>
<td>0.78</td>
</tr>
<tr>
<td>Mobile phones provide learners with ubiquitous language learning opportunities</td>
<td>5.4</td>
<td>16.7</td>
<td>30.4</td>
<td>47.6</td>
<td>3.21</td>
<td>0.90</td>
</tr>
</tbody>
</table>

Results of the interview study. The results of the interview show that the majority of language teachers (92.72%) showed positive attitudes toward some affordances of the use of mobile phones for language teaching. The possibility of connectivity to the Internet at anytime and anywhere (94.55%) is a very important affordance of the use of mobile phones based on the EFL teachers’ interview reports.
I think one of the best benefits of the use of mobile phones for language teaching is that students have the opportunity to connect to the Internet in the classroom and outside the classroom. This issue might help students to be more autonomous and independent. (Teacher 15)

When EFL learners use mobile phones for language learning, they can have access to thousands of online EFL resources and this Internet access is extremely facilitative and very useful both for EFL teachers’ quality of teaching and learners’ learning. (Teacher 26)

Well, mobile phones will give EFL students the chance to be online in EFL classrooms. Mobile phones are particularly effective to be used for EFL courses in which there are not any Internet-based facilities. Mobile phones will play important roles in these EFL courses since language learners can get connected to the Internet easily. (Teacher 32)

As it was reported in the survey, the majority of participants (87.27%) believed that the audio-visual properties of mobile phones can help learners to learn more easily.

It seems that mobile phones can create interactivity by their multimedia properties. These multimedia properties are very useful to improve students’ listening abilities. (Teacher 7)

In our EFL context we lack some basic technological facilities. At least, the use of mobile phones will let EFL students to have access to some services that they lack in the classroom. One of those important services is the multimedia. (Teacher 18)

As it was revealed in the survey, the participants (83.64%) believed that mobile phones are light and they require little space to be kept and are easy to be carried.

Mobile phones are small and can be carried very easily just unlike personal computers and some heavy laptops. EFL students can benefit from this affordance of mobile phones to learn English. (Teacher 47)

Most students complain about bringing heavy laptops and dictionaries to EFL classrooms. The situation is completely different when it comes to mobile phones. I think being portable is a valuable feature of mobile phones. (Teacher 42)

A small proportion of language teachers (7.3%) were mostly neutral about the use of mobile phones for language learning/teaching. It seemed that they were not aware of or acquainted with MALL and its implementation in language teaching.

Honestly, I don’t have enough knowledge of the use of mobile phones for language learning/teaching. I think I’m not in a position to judge or give my opinions then. (Teacher 13)

The use of mobile phones for language teaching? I am not sure whether this is possible in our EFL context or at least I don’t have any idea how it might be. (Teacher 39)

**EFL teachers’ perspectives on the challenges to the use of mobile phones for language learning/teaching**

**Results of the questionnaire study.** Based on the results shown in Table 2, the EFL teachers agreed on the importance of most challenges to the implementation of MALL. Specifically,
lack of MALL activities and software tools, small screen size, use of mobile phones for non-academic purposes, high costs of Internet connection, slow Internet speed, connectivity problems, students’ lack of knowledge to use mobile phones for academic purposes, and students’ resistance to the use of mobile phones for academic purposes were the perceived challenges to the implementation of MALL.

Table 2. EFL teachers’ perspectives on the challenges to the use of mobile phones for language learning/teaching

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Strongly disagree (%)</th>
<th>Disagree (%)</th>
<th>Agree (%)</th>
<th>Strongly agree (%)</th>
<th>Mean</th>
<th>SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>The small screen size of mobile phones</td>
<td>2.4</td>
<td>14.3</td>
<td>32.7</td>
<td>50</td>
<td>3.32</td>
<td>0.79</td>
</tr>
<tr>
<td>Slow Internet speed</td>
<td>7.1</td>
<td>11.3</td>
<td>59.5</td>
<td>22</td>
<td>2.97</td>
<td>0.78</td>
</tr>
<tr>
<td>Internet connectivity problems</td>
<td>4.8</td>
<td>16.7</td>
<td>54.8</td>
<td>23.8</td>
<td>2.95</td>
<td>0.82</td>
</tr>
<tr>
<td>Students’ non-academic use of mobile phones</td>
<td>1.2</td>
<td>7.7</td>
<td>50.6</td>
<td>40.5</td>
<td>3.31</td>
<td>0.66</td>
</tr>
<tr>
<td>High costs of mobile phones</td>
<td>11.9</td>
<td>19.6</td>
<td>41.1</td>
<td>27.4</td>
<td>2.86</td>
<td>0.97</td>
</tr>
<tr>
<td>High cost of connectivity to the Internet</td>
<td>1.8</td>
<td>5.4</td>
<td>45.8</td>
<td>47</td>
<td>3.38</td>
<td>0.68</td>
</tr>
<tr>
<td>Students’ lack of skill/knowledge to use mobile phones for academic purposes</td>
<td>5.5</td>
<td>7.3</td>
<td>56.5</td>
<td>30.7</td>
<td>3.12</td>
<td>0.78</td>
</tr>
<tr>
<td>Incompatibility of the use of mobile phones with language teaching/learning</td>
<td>22.6</td>
<td>38.1</td>
<td>35.1</td>
<td>4.2</td>
<td>2.20</td>
<td>0.84</td>
</tr>
<tr>
<td>Students’ resistance to the use of mobile phones for academic purposes</td>
<td>3</td>
<td>7.1</td>
<td>48.2</td>
<td>41.7</td>
<td>3.29</td>
<td>0.73</td>
</tr>
<tr>
<td>Lack of language learning mobile-based software and activities</td>
<td>1.2</td>
<td>8.9</td>
<td>37.5</td>
<td>52.4</td>
<td>3.41</td>
<td>0.7</td>
</tr>
</tbody>
</table>

Results of the interview study. In the interviews, the participants expressed their concerns over some limitations of MALL. As it was revealed in the survey results, the majority of participants (85.45%) were not aware of the availability of MALL software tools and activities. Some teachers (54.55%) also mentioned that MALL activities and software tools are not available to them and their students.

I think one important challenge is how to gain access to some appropriate and well-designed language learning activities which can be used via mobile phones. I believe in our EFL context (Iran), it’s not easy to have access to these activities and exercises. (Teacher 52)

Well, all students have mobile phones, but are we able to give them good language tasks to do via their devices? I think our students can find some free activities and software on the
Internet while I am not optimistic about the suitability of these free language learning activities. (Teacher 44)

We even lack computer-based language learning activities and software. In my view, the availability of software for mobile learning is a big barrier to its use in EFL contexts. (Teacher 17)

Internet-based problems were considered as discouraging for many EFL teachers (69.09%). Connectivity, slow speed, and high costs of the Internet connections were the other important barriers to the use of mobile phones for language learning.

The use of the Internet can help EFL students to learn English and mobile phones can help them in this regard. But, the Internet connection via mobile phones is very slow and boring for many students. (Teacher 28)

I usually use my mobile phone to connect to the Internet. There are lots of disconnections and high costs that discourage you from using your mobile phone. The same situation will occur when students wish to use their mobile phones for language learning. (Teacher 40)

Some teachers (52.9%) also asserted that EFL students are accustomed to using mobile phones for fun and non-academic purposes. They stated that it is very hard to persuade them to use their mobile phones for their academic purposes.

For EFL students mobile phones are devices that they use for having fun most of the times. I suppose it’s very difficult to train them to use their mobile phones for their EFL learning purposes. (Teacher 35)

These are students who should accept mobile phones as language learning tools. At present, I think they are not ready since they use mobile phones for non-academic activities and this is a serious obstacle. (Teacher 53)

EFL teachers’ perceptions of the current use of mobile phones for their EFL courses

Results of the questionnaire study. Two item of the questionnaire were about the EFL teachers’ perceptions of the current use of mobile phones by EFL teachers for their teaching and EFL students for their learning. The majority of EFL teachers (97.61%) reported that they “never” use mobile phones for their teaching. The remaining 2.38% of participants asserted that they “rarely” make use of MALL activities in their teaching. The majority of EFL teachers (94.64%) also reported that their students “never” use mobile phones for language learning in their EFL courses.

Results of the interview study. The results of the interview showed that the EFL teachers (96.36%) participated in the study do not make use of any kind of MALL activities or practices. The teachers (92.73%) reported that their students do not use mobile phones for language learning in their EFL courses either. Few teachers (16.36%) mentioned that some students use their dictionaries on their mobile phones to check the meanings of new words.
**EFL teachers’ perceptions of their ability to use/develop MALL activities and software**

**Results of the questionnaire study.** As Table 3 illustrates, the total mean of this section is equal to 2.518 which shows that the majority of EFL teachers perceived themselves as fairly proficient or undecided concerning their ability to use mobile phones for language teaching.

<table>
<thead>
<tr>
<th></th>
<th>Not proficient (%)</th>
<th>Fairly proficient (%)</th>
<th>Undecided (%)</th>
<th>Proficient (%)</th>
<th>Very proficient (%)</th>
<th>Mean</th>
<th>SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designing MALL activities</td>
<td>31.5</td>
<td>29.2</td>
<td>34.5</td>
<td>4.8</td>
<td>0</td>
<td>2.13</td>
<td>0.92</td>
</tr>
<tr>
<td>Ability to adapt your</td>
<td>13.7</td>
<td>28</td>
<td>51.2</td>
<td>6</td>
<td>1.2</td>
<td>2.52</td>
<td>0.84</td>
</tr>
<tr>
<td>teaching styles/techniques to</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MALL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ability to evaluate MALL</td>
<td>17.3</td>
<td>31.5</td>
<td>49.4</td>
<td>1.8</td>
<td>0</td>
<td>2.36</td>
<td>0.79</td>
</tr>
<tr>
<td>software tools</td>
<td></td>
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</tr>
<tr>
<td>Your ICT literacy to use</td>
<td>10.7</td>
<td>33.9</td>
<td>23.2</td>
<td>25.6</td>
<td>6.5</td>
<td>2.84</td>
<td>1.13</td>
</tr>
<tr>
<td>mobile phones for language</td>
<td></td>
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<tr>
<td>teaching</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Ability to use MALL</td>
<td>11.3</td>
<td>15.5</td>
<td>64.3</td>
<td>6</td>
<td>3</td>
<td>2.74</td>
<td>0.85</td>
</tr>
<tr>
<td>software tools</td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Total mean = 2.518</td>
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</table>

**Results of the interview study.** A large proportion of language teachers (83.64%) asserted that they were unfamiliar with the use of mobile phones for language teaching and learning. Some teachers (72.67%) stated that they did not have the expertise and knowledge on how to use mobile phones for language teaching and learning. Some language teachers (47.27%) also mentioned that they might need training on how to use mobile phones for teaching English. The point is that most language teachers are ready to receive some training on how to implement MALL in their teaching.

> *I am not familiar enough with the techniques and approaches that can be adopted to use mobile phones for language learning. I need to know about practical and theoretical basis of how to use mobile phones for language teaching.* (Teacher 42)

> *Using mobile phones for EFL contexts requires certain skills and expertise. I am not sure whether I possess these certain skills. I think I will be able to use mobile phones for my language teaching after having a short period of training.* (Teacher 25)

> *Generally speaking, I don’t have adequate knowledge on how to use technology for language teaching. The use of mobile phones is not an exception in this regard.* (Teacher 38)
I know a lot of things about the use of mobile phones. But using mobile phones for EFL is a different story I guess. I reckon I have the technological knowledge of using mobile phones but I am not that competent in combining this technological knowledge with language teaching and learning requirements. (Teacher 20)

Discussion and conclusion

This study was an attempt to address EFL teachers’ perceptions of the implementation of mobile-assisted language learning in Iran. The data obtained from questionnaires and interviews illustrated that Iranian EFL teachers adopt moderately positive perspectives on the integration and implementation of MALL. In addition, the findings might suggest that Iranian EFL teachers are aware of possible merits and affordances of MALL implementation for language teaching and learning. As the findings suggest, one major affordance of MALL is that it enables students and teachers to be connected to the Internet in the classroom. The Internet can offer a wide range of benefits for language learning and facilitate the process of language teaching and learning. Specifically, the use of the Internet will improve interaction, communication, and problem-solving in the EFL classroom (Harris, 2002). The use of the Internet can help EFL teachers design a variety of interactive and motivating language learning tasks and activities. For instance, EFL teachers can create podcasts and improve students’ access to class content and activities (Bongey, Cizadlo, & Kalnback, 2006). Since educational authorities and teachers can influence students’ use of technology, the positive perspectives of Iranian EFL teachers would have direct implications for the inclusion of MALL in students’ learning process (Cope & Ward, 2002). Furthermore, it is essential to identify technological needs of educational stakeholders before the application of technology for educational purposes (Roblyer, 2006). The findings of this study can be regarded as an analysis of Iranian EFL teachers’ technological needs. Moreover, positive perceptions of Iranian EFL teachers about MALL implementation can be indicative of their high level of motivation for the use of mobile technology for their teaching. Even though the implementation of MALL is largely dependent on students’ acceptance and positive attitudes, the use of any type of technology would not be feasible when teachers do not adopt positive attitudes toward it (Rakes & Casey, 2002). The results are commensurate with previous studies which showed teachers’ positive attitudes toward mobile learning (Cruz et al., 2012; Ismail et al., 2013; Şad & Göktaş, 2013; Seppälä & Alamäki, 2003; Serin, 2012; Tai & Ting, 2011; Thomas & Bolton, 2012; Zulkaflı et al., 2011).

As Goad (2011) argues, teachers’ attitudes toward the use of mobile phones would play a pivotal role in determining the efficiency of this technology for educational purposes and student use. Although in EFL contexts much attention has been directed to students’ perceptions of suitability of MALL for language learning (e.g., Basoglu, & Akdemir, 2010; Fujimoto, 2012; Hsu, 2013; Kennedy & Levy, 2008; Oberg & Daniels, 2012; Stockwell, 2008), the issue of teachers’ perceptions of this technology has remained neglected and overlooked (Al-Fahad, 2009). A plethora of opportunities for future research on teachers’ perspectives on MALL implementation are available. Teachers’ attitudes toward the implementation of MALL can be investigated in various language teaching contexts. Extreme caution should be exercised to evaluate both teachers’ and students’ perspectives on the use of mobile phones for language teaching and learning prior to the implementation of MALL programs. At present, it appears that MALL has been implemented in a number of EFL contexts based on students’ acceptance of the technology without taking teachers’ perspectives into account. Jones
Dashtestani: MALL in an EFL context: Iranian teachers’ perspectives

(2001) asserts that both EFL teachers and students should have positive attitudes toward CALL for its successful implementation. Therefore, it is recommended that EFL authorities and providers devote their attention to EFL teachers’ perceptions of new technologies and strive to match teachers’ perceptions to perceptions and needs of students. The quality of teaching and learning will foster when both teachers and students are motivated and willing to use different technologies for their educational purposes. In addition, teachers’ perceptions of the use of technology might differ from their actual use of technology. In terms of MALL implementation, future research should be focused on EFL teachers’ actual use of mobile technology for language teaching.

Also of note was that the findings revealed that a number of challenges would impede the process of the integration of MALL into EFL instruction. As Stockwell (2012) argues, EFL learners and teachers should be patient about the limitations of MALL and find ways to alleviate the effects of these obstacles. One barrier that can be removed or alleviated by EFL teachers and authorities is students’ use of mobile phones for non-academic and non-EFL activities. In this study, the teachers also pointed out students’ resistance to the use of mobile phones for EFL purposes. According to Wang and Higgins (2006), it takes a long time to persuade language learners to accept a new technology. Dashtestani (2012) identified similar barriers to the implementation of CALL in Iran. It was suggested that both teachers and EFL authorities should take the responsibility for the removal of the current obstacles and challenges to MALL implementation. Definitely, teachers will not be able to normalize CALL when EFL authorities do not support and motivate them in this regard. The results of this study regarding teachers’ perceptions of challenges to the implementation of MALL confirm the findings of previous research on the limitations of CALL implementation. Tai and Ting (2011) found similar technical and pedagogical challenges and barriers to the use of mobile phones in language teaching. They propose that challenges to the implementation of MALL should be eliminated in order to facilitate the incorporation of MALL in students’ learning process. Similarly, Cruz et al. (2012) identified similar technological, individual, instructional, and pedagogical obstacles to effective implementation of mobile learning.

Previous research on challenges to the implementation of CALL has demonstrated technical, individual, and pedagogical constraints on CALL implementation (e.g., Lam, 2000; Smerdon, Cronen, Lanahan, Anderson, Iannotti, & Angeles, 2000; Toprakci, 2002). MALL is a newly-developed branch of CALL and the elimination of its barriers and challenges might take much time and effort. Currently, further specific research should be undertaken to evaluate and measure the effect of each obstacle. More importantly, considering the context in which MALL is implemented is absolutely essential. Evaluating teachers’ perspectives on the use of technology should be combined with the evaluation of the context and environment (Buckenmayer, 2011). As a consequence of this, further research into the nature of obstacles to CALL implementation in various EFL contexts would provide beneficial insights into the adoptions of strategies and measures to eliminate or control them.

Stockwell (2008) suggests that students’ non-use of and resistance to the use of mobile phones for language learning might be linked to lack of their preparedness to accept or use mobile phones for their learning purposes. This preparedness might not be related to students’ enthusiasm about the use of technology while it is directly related to the skills and expertise that they need to possess in order to meet the requirements of MALL. Even in the survey, the EFL teachers referred to students’ lack of knowledge to use their mobile phones for academic purposes. EFL teachers and authorities are recommended to conduct research studies to examine Iranian EFL students’ motivation and preparedness for the use of mobile
phones for their learning. Definitely, EFL teachers can play key roles in preparing EFL students for the implementation of MALL. EFL teachers can make EFL students aware of the skills and abilities which are required for successful implementation of MALL in EFL courses. However, these MALL skills and competences can be taught to learners provided that the EFL teachers have the required MALL skills and expertise. In addition, as reported by the participants, the problems of Internet connectivity and high costs of using mobile phones are perceived serious impediments which may discourage language teachers and learners from implementing MALL. These challenges are not pedagogical ones while can be accommodated by the measures that language teachers and EFL authorities might take. Stockwell (2008) is optimistic about alleviating the effect of the Internet connectivity challenge. EFL teachers can utilize MALL software programs and activities which require limited Internet connectivity. Alternatively, EFL providers can equip EFL courses with wireless systems so that students and teachers can make use of Internet-based affordances of mobile phones.

The findings show that the majority of Iranian teachers do not have the required skills for the implementation of MALL. Tai and Ting (2011) suggest that educational organizations should provide EFL teachers with ICT skills required for the implementation of MALL. They emphasize that educational providers should provide training for teachers through launching practical projects of MALL. Concerning the implementation of CALL in Iran, Dashtestani (2012) proposes that Iranian EFL teachers need practical and theoretical training and awareness-raising on the use of technology in language teaching. Practical MALL workshops can be held in which teachers develop and design MALL activities and tasks. One effective strategy is to encourage language teachers to participate in collaborative projects on MALL implementation. In these workshops, teachers can develop MALL activities and tasks collaboratively. This collaboration would improve the process of teacher development and teachers’ ICT skills accordingly. Further, a wide range of MALL software programs are available to EFL teachers and providers. EFL providers should also facilitate teachers’ access to effective and reliable MALL activities and software programs. Robinson and Latchem (2006) maintain that although the application of a new technology would provide opportunities for teachers to improve their quality of teaching, the use of these technologies might place numerous demands on them. One of these demands is related to teachers’ levels of electronic literacy and their pedagogical knowledge of CALL. As Mishra and Koehler (2006) suggest, the simultaneous improvement of teachers’ technological, pedagogical, and content (language proficiency for language teachers) competence can help them use technology for teaching purposes efficiently. Considering the improvement of any of these competences in isolation would not be an effective strategy to technology integration.

Lastly, MALL implementation is an uninvestigated area of research in the Iranian EFL context. Very little is known about the suitability of the implementation of MALL in the Iranian EFL context. More research is required to evaluate the suitability of the implementation of MALL from the perspectives of language learners. Furthermore, future research should be focused on exploring EFL learners’ mobile learning preparedness and skills prior to the implementation of MALL in the Iranian EFL context. Some experimental studies should also be conducted to investigate the perceptions of language teachers and learners toward actual practices of MALL. As there is a lack of research on EFL teachers acceptance of MALL implementation, more research should be focused on EFL teachers’ perceptions of and attitudes toward the implementation of MALL in the future.
References


Kukulska-Hulme, A., & Shield, L. (2008). An overview of mobile assisted language learning: From content delivery to supported collaboration and interaction. *ReCALL, 20*(03), 271–289.


Author biodata

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Appendix A

Questionnaire on EFL teachers’ MALL perspectives

Dear Participants,

The following questionnaire is part of a research project that investigates the perceptions of Iranian EFL teachers of the implementation of MALL. Your responses will be treated in strict confidence and individual teachers/schools will not be identified in any report or publication. Please answer all questions as accurately as you can.

Background information

Job/Position:

Institution/Organization:

Province:

Gender:

Age:

Have you attended any teacher training/education courses yet? Yes……….. No………..

How do you rate your English proficiency?
Elementary_____ Intermediate______ Upper-intermediate_____ Advanced_______

What’s your university degree?

What major have you studied at university?

What EFL courses do you teach?
Elementary_____ Intermediate______ Upper-intermediate_____ Advanced_______

How long have been using mobile phones?

How long have you been teaching English?
### Section 1: EFL teachers’ attitudes toward the use of mobile phones for language learning/teaching

<table>
<thead>
<tr>
<th>Items</th>
<th>Strongly disagree</th>
<th>Disagree</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The use of mobile phones will facilitate the process of language learning</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2. Portability is an important property of mobile devices</td>
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<td>3. The use of mobile phones can create interactive learning environments</td>
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<td>4. The multimedia used in mobile phones is useful for EFL learning</td>
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<tr>
<td>5. Scaffolding can be provided for each learner through the use of mobile phones for language teaching</td>
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<tr>
<td>6. Mobile phones can be used to teach/learn different language skills</td>
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<tr>
<td>7. The use of mobile phones for language teaching/learning is cost-effective</td>
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<tr>
<td>8. The use of mobile phones for language teaching/learning is time-efficient</td>
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<tr>
<td>9. Mobile phones can be connected to the Internet at any time</td>
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<tr>
<td>10. Mobile phones provide learners with ubiquitous language learning opportunities</td>
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</tbody>
</table>

### Section 2: EFL teachers’ perspectives on the challenges to the use of mobile phones for language learning/teaching

<table>
<thead>
<tr>
<th>Items</th>
<th>Strongly disagree</th>
<th>Disagree</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The small screen size of mobile phones</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Slow Internet speed</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3. Internet connectivity problems</td>
<td></td>
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<tr>
<td>4. Students’ non-use of mobile phones</td>
<td></td>
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<tr>
<td>5. High costs of mobile phones</td>
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<td></td>
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<tr>
<td>6. High cost of connectivity to the Internet</td>
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<tr>
<td>7. Students’ lack of skill/knowledge to use mobile phones for academic purposes</td>
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<tr>
<td>8. Incompatibility of the use of mobile phones with language teaching/learning</td>
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<tr>
<td>9. Students’ resistance to the use of mobile phones for academic purposes</td>
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<tr>
<td>10. Lack of language learning mobile-based software and activities</td>
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</tbody>
</table>
**Section 3: EFL teachers’ perceptions of the current use of mobile phones for their EFL courses**

<table>
<thead>
<tr>
<th>Items</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Frequently</th>
<th>Always</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. How often do you use mobile phones for your teaching practices?</td>
<td></td>
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<tr>
<td>2. How often do students use mobile phones for their learning in your classes?</td>
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</tr>
</tbody>
</table>

**Section 4: EFL teachers’ perceptions of their ability to use/develop MALL activities and software**

<table>
<thead>
<tr>
<th>Items</th>
<th>Not proficient</th>
<th>Fairly proficient</th>
<th>Undecided</th>
<th>Proficient</th>
<th>Very proficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Designing MALL activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2. Ability to adapt your teaching styles/techniques to MALL</td>
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<tr>
<td>3. Ability to evaluate MALL software tools</td>
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<tr>
<td>4. Your ICT literacy to use mobile phones for language teaching</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>5. Ability to use MALL software tools</td>
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</tbody>
</table>