



Analysis of E- Learning using MOORA Method

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Abstract. E-learning is conducted digitally through electronic media one type of learning, usually involving the Internet. Most electronics it can be accessed including a computer, laptop, tablet or Smartphone devices, wherever students are a versatile and easy way to learn. E-learning is a type of learning conducted digitally through electronic media, usually the Internet Includes. Including computer, laptop, tablet or Smartphone Most electronic devices can be accessed through it, wherever students are. A versatile and easy way to learn. Path of WebPages, under construction Webpage, Connection of Web Pages, Display of WebPages, and Colors of WebPages. Evaluation Preference: Between people, within people, between measures, Residual. The result it is seen that Colors; of WebPages and is got the first rank whereas the Connection of WebPages got is having the lowest rank. E-Learning in Rank from the result it is seen that Colors; of WebPages and is got the first rank whereas the Connection of WebPages got is having the lowest rank.

1. Introduction

E-learning has many definitions, but in short it refers to learning through electronic means. It refers to learning through electronic means rather than face-to-face learning from lecture notes, books or a teacher. Common formats are computer-based training and web-based courses or online courses. E-learning is e-books, CDs, webinars and more. It is a routine to teach students that chalk and blackboard revolutionized the style. In contrast, e-learning makes acquiring education easier and richer and more productive. E-learning is one of the Ministry of Education's programs to help students succeed in school. This is for student's Additional electives to customize education based on their strengths, needs and interests provide Sustainable e-learning. One of the older versions of online learning is adaptive learning, which is standard e-learning. Adaptive e-learning online learning is another type of Asynchronous e-learning, interactive e-learning, individual e-learning and collaborative e-learning. E-learning allows students to communicate with their teacher only through the Internet. They cannot learn or interact with the teacher in any form even if they are on the same platform. Online learning allows for live and interactive learning through video chat and messaging. This is in a production environment It is a technique that can be successfully applied to a variety of complex decision-making problems. Solve in Learning, e-lessons in the form of CDs or Computer Based Training (CBT) for learners are available and are executable by the learner on the computer. Web-based training E-courses are also available through (WBT), which is Learning Management The system, uses the Internet as a platform. Advanced AI models many problems for users compared to conventional classroom curriculum can be solved in detail. Also, with traditional linear pre-planned lessons and eLearning courses Technology can create more realistic experiences in comparison.

2. E-Learning

The origin of the term e-learning is not certain; although the term may have originated in the 1980s it is said. Online learning within a similar time frame of another delivery mode. Some teachers are e-learning although clearly defined [1]. Others have a specific definition or view of e-learning in their article not specified. These definitions are defined by different views of other definitions also works by comparing properties with other existing norms [2]. using and finally, "digital learning is any learning facilitated by technology or through instructional practice that effectively uses technology" And this Analyzing the descriptions of the three fields of learning and m-learning Doing and showing how e-learning can be. We believe in the argument of superiority, inferiority or equality [3]. "What works?" Researching that is the best investment of resources. In learning, rather than trying to justify its existence [4]. Discussed the advantages and disadvantages of e-learning depth elsewhere. These are the hallmarks of good learning strategies associated with the design of effective e-learning [5]. They are People who use mobile devices whenever they want to expand their knowledge everywhere [6]. People in their learning and their own learning to manage progress independently ELearning also makes it possible to pursue goals. E-learning ecosystems offer many benefits to organizations [7]. A fully developed e- The learning ecosystem includes an HR-integrated, web-based portal, in which Employees can check their benefits, make changes to medical plans and capabilities Access teaching learning programs [8]. Along with business objectives and personal career aspirations are intertwined. To achieve corporate goals Line manager's access data for training activities to coordinate their programs to prescribe and supervise, learning assets Officers are also trained to use business discipline to manage [9]. Developments in Internet and multimedia technologies are fundamental enablers of e-learning [10, 11, 12, 13]. Three major sectors have been identified in the e-learning industry namely technologies and services [14]. But you can see that there are two additional fields called sub-

fields [15]. Computer-assisted language learning (CAL) programs include sounds, videos, graphics, and Text delivery includes multimedia, which allows learners to be exposed to the target language and culture.

3. MOORA Method

Also called multi-objective optimization Process simultaneously upgrading multiple criteria or multiple attribute optimizations is subject to some restrictions on conflicting attributes [16,17]. To make optimal decisions in the presence of industry, automobile design or business transactions a variety of fields of interest [18, 19]. Increasing profits and lowering the price of an item; Reducing performance and vehicle fuel consumption The MOORA method demonstrates compatibility and ability to solve many intermediate rankings of alternatives [20, 21]. Considering all the properties that can be found in The MOORA mode is relatively important for them, so it can provide the best accurate estimate [22, 23, 24]. These explanations Facilities in Lithuania were tested by applications in the field. The application has several purposes: Costs, experience and performance [25, 26, 27]. These purposes having different units avoid difficulties in the dimensional proportions of the MOORA system Normalization. These ratios were consolidated in the first part of the MOORA, and they were in the second Used away from a reference point [28, 29, 30]. The results of the two type’s limit each other, which is of strength is a test. Advanced Nominal Panel for Multi-Objective Optimization by Ratio Analysis System (MOORA). 6 conditions are fulfilled with the help of technique and Delphi method. Additionally, MOORA Multi- Objective Optimization 2 satisfies the seventh condition to some extent using different methods [31, 32]. MOORA is a very strong organization because no other organization meets the 7 conditions best. Minimal mathematical calculations with a strong background in mathematics, based only in very effective simple ratio analysis useful for those who are indecisive [33]. Also, the calculation time of the MOORA method is apparently shorter. In the Decision-making problem, between people: Most usage guides use both, when referring to two people or things When referring to more than one person or thing, you want to use between. Within people [34]. People work at the intersection of brand, culture and development. Our approach is brand excellence Integrates development, strategy, and design thinking between measures: Between-subjects study design: Different individuals test each condition, thus each person exposes only one user interface. Residual: Residual is used to describe what remains of something when most of it has gone [35].

4. Analysis and Discussion

TABLE 1. E-Learning in data set

	Between people	Within people	Between measures	Residual
Path of WebPages	87.08	79.53	29.15	22.05
Under constructing Webpage	92.12	94.97	23.69	27.3
Connection of WebPages	74.08	82.58	29.18	23.1
Display of WebPages	83.17	78.28	24.6	17.59
Colours of WebPages	93.33	86.41	27.96	18.89

Table 1 shows the value of the dataset for E- Learning in MOORA method Alternative: Path of WebPages, under construction Webpage, Connection of Web Pages, Display of WebPages, and Colors of WebPages. Evaluation Preference: Between people, within people, between measures, Residual.

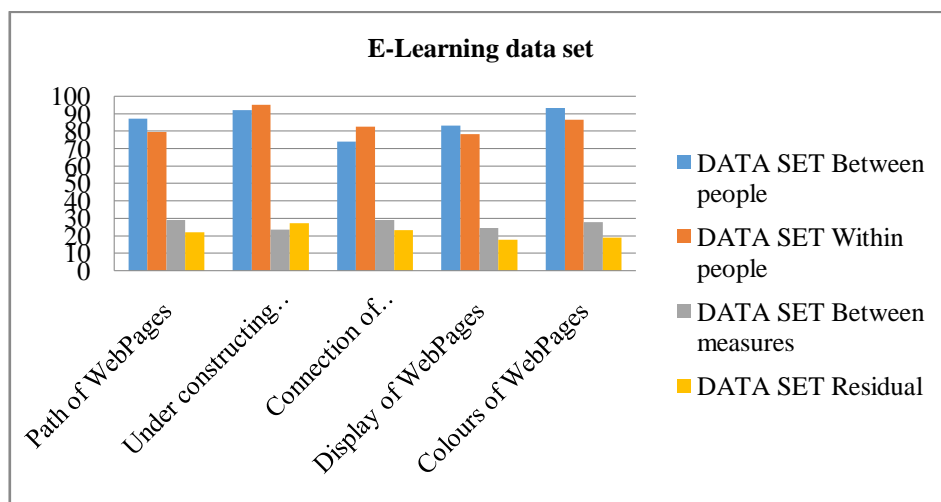


FIGURE 1. E-Learning in data set

Figure 1 shows the value of the dataset for E- Learning in MOORA method Alternative: Path of WebPages, under construction Webpage, Connection of Web Pages, Display of WebPages, and Colors of WebPages. Evaluation Preference: Between people, within people, between measures, Residual.

TABLE 2. E-Learning in Normalized Data

Normalized Data			
Between people	Within people	Between measures	Residual
0.452	0.421	0.482538	0.4
0.478	0.502	0.392156	0.6
0.384	0.437	0.483035	0.5
0.431	0.414	0.407219	0.4
0.484	0.457	0.46284	0.4

$$X_{n1} = \frac{X1}{\sqrt{((X1)^2+(X2)^2+(X3)^2 \dots)}} \quad (1).$$

Table 2 shows the various Normalized Data High values of between people, within people, between measures, Residual The normalized value is obtained using formula (1). Table 3 for analysis displays the weights used. We took the same weight for all the parameters for analysis

TABLE 3. E-Learning in Weightages

Weight ages			
0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25

$$X_{wnormal1} = X_{n1} \times w_1 \quad (2).$$

TABLE 4. E-Learning in Weighted normalized decision matrix

Weighted normalized decision matrix			
0.113	0.105	0.120635	0.111795807
0.119	0.126	0.098039	0.138413856
0.096	0.109	0.120759	0.117119416
0.108	0.103	0.101805	0.08918314
0.121	0.114	0.11571	0.095774276

Table 4, 5 shows the final result Multi-objective optimization based on ratio analysis E- Learning. The weighted default result is calculated using the matrix formula (2). In Assessment value, Colours of WebPages is having is Higher Value and Connection of WebPages is having Lower value formula (3).

TABLE 5. E-Learning in Assessment value

Assessment value	
Path of WebPages	-0.014391197
Under constructing Webpage	0.008533255
Connection of WebPages	-0.032660621
Display of WebPages	0.020329496
Colours of WebPages	0.023753691

Table 5 E-Learning in Assessment value from the result it is seen that Colours of Webpage sand is got the first value whereas is the Connection of WebPages got is having the lowest value

$$Assesmentvalue = \sum X_{wn1} + X_{wn2} - X_{wn3} \quad (3).$$

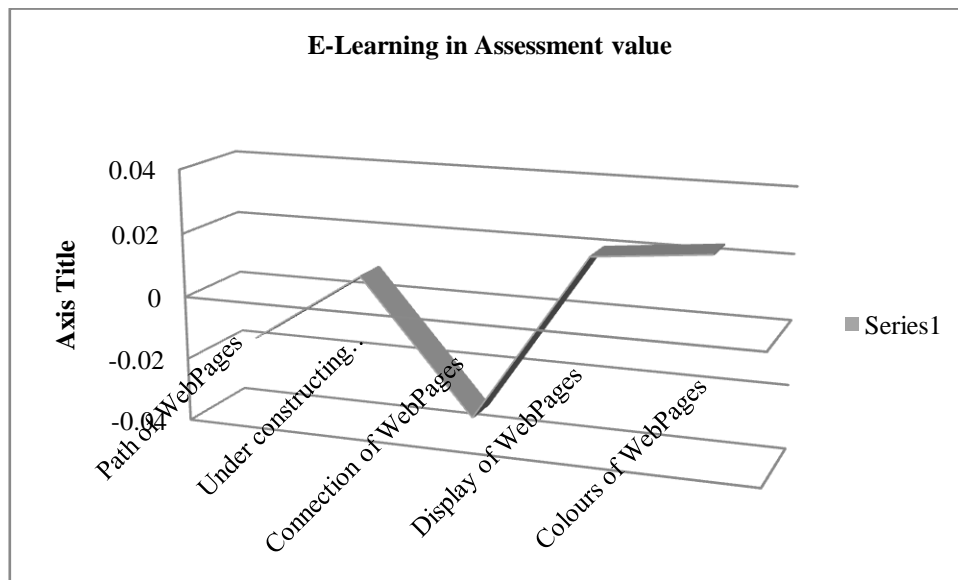


FIGURE 2. E-Learning in Assessment value

Figure 2E-Learning in Assessment value from the result it is seen that Colours of WebPages and is got the first value whereas is the Connection of WebPages got is having the lowest value.

TABLE 6. E-Learning in Rank

Rank	
Path of WebPages	4
Under constructing Webpage	3
Connection of WebPages	5
Display of WebPages	2
Colours of WebPages	1

Table 6E-Learning in Rank E-Learning in Rank from the result it is seen that Colours of WebPages and is got the first rank whereas is the Connection of WebPages got is having the lowest rank.

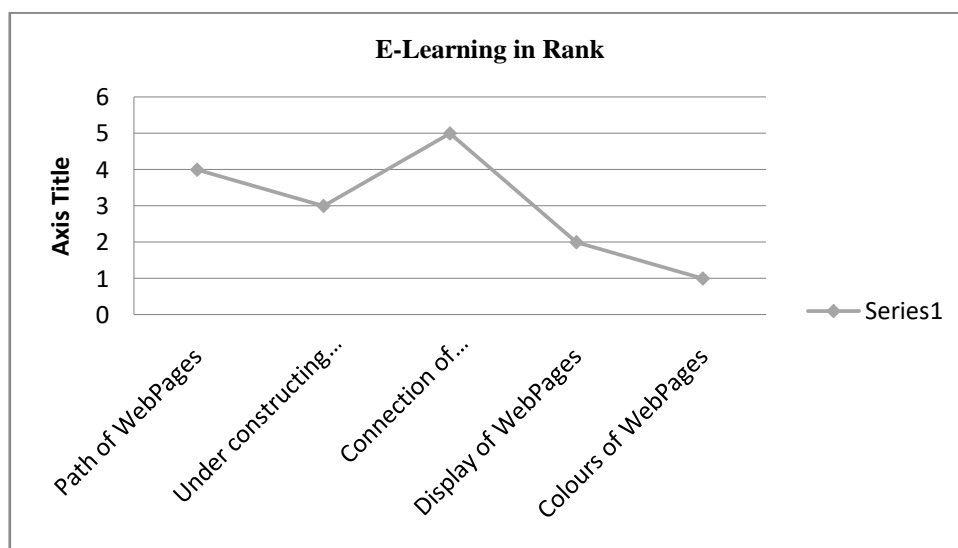


FIGURE 3. E-Learning in Rank

Figure 3 E-Learning in Rank from the result it is seen that Colours of WebPages and is got the first rank whereas is the Connection of WebPages got is having the lowest rank.

5. Conclusion

These objectives are dimensionless in the MOORA method; by having all different units, Ratios avoid the Normalization difficulties. These rates in the first part of MOORA are integrated, and the second is the distances to a reference point are

used. Submerged Arc Welding, Gas Tungsten Arc Welding Gas Metal Arc Welding, and CO2 Laser Welding and in various welding processes like friction stir welding. Considers six decision problems including selection of appropriate welding parameters. Researching that is the best investment of resources. In learning, rather than trying to justify its existence. These hallmarks of good learning strategies associated with design that are new in recent years are, they are becoming more popular with the advancement of technologies. Using their mobile devices, people can expand their knowledge anytime and anywhere. E-Learning in Rank from the result it is seen that Colors of WebPages and is got the first rank whereas is the Connection of WebPages got is having the lowest rank.

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