



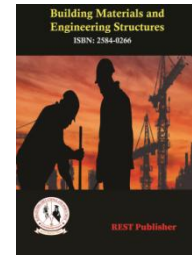
Building Materials and Engineering Structures

Vol: 1(1), March 2023

REST Publisher; ISSN: 2584-0266 (Online)

Website: <https://restpublisher.com/journals/bmes/>

DOI: <http://doi.org/10.46632/bmes/1/1/5>



An Emergency Management Building Resilience Using IBM SPSS Statistics

ManjulaSelvam, M. Ramachandran, Kurinjimalar Ramu, Chinnasami Sivaji

REST Labs, Kaveripattinam, Krishnagiri, Tamil Nadu, India.

*Corresponding author Email: manjulaselvam2016@gmail.com

Abstract. *Emergency Management, Introduction: You will learn about emergency management throughout this four-week course, which will help you better plan for, handle, and recover from crises. You will be given examples of risk and disaster response throughout the course to assist you acquire familiar with the underlying ideas. Moreover, Massey University-affiliated emergency management professionals with an international reputation will teach you. Several of the specialists you may encounter have experience with crises like the 2011 Canterbury earthquake. Research significance: Despite its name, emergency management does not actually concentrate on managing crises, which are generally thought of as minor incidents with minimal effects that are handled through routine community activities. The management of catastrophes, that are events that have more effects than what a society can manage on its own, is the primary focus of emergency management. It is common for disaster management to involve efforts from a variety of groups, including households, organizations, local governments, and/or higher governments. Although there are numerous terminology used in the emergency management field, the operations can generally be divided into preparation, response, mitigation, and recovery. Other phrases like risk reduction for disasters and prevention are also. Methodology: The brand name for the most recent versions is IBM SPSS statistics. The "statistical package for the social sciences" (SPSS), a set of software tools for changing, analyzing, and displaying data, is commonly used. Multiple formats are available for SPSS. Evaluation parameters: Hazard Analysis, Capability Assessment, Emergency Planning, Emergency Response, Capability Management, Recovery Efforts Results: The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .529 which indicates 52% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis. Conclusion: the outcome of Cronbach's Alpha Reliability. The model's total Cronbach's Alpha score is .529, which denotes a 52% dependability level. The 50% Cronbach's Alpha value model mentioned above from the literature review may be used for analysis.*

Keywords: *Capability Assessment, Emergency Planning, Emergency Response, Capability Management.*

1. INTRODUCTION

Various philosophies, regional unavoidably because of the demands of the organization that handles arising conflicts Chairman: Emergency Manager More urgently, to be exact management strategies, plans, and project coordination aids in implementation. Also, traditional managers take their commitment to personal growth seriously. Be thorough and involved. Overcome the difficulties of emergency management, and if wanted, build institutions to support projects. Criteria for complex systems Traditional that is notable for completion and sets boundaries this was created by operating businesses and is required to address issues. May be. Senior ARC representative: Inform us about Hurricane Andrew: "These are typical chapters; we are aware that the activities are not what they seem. Services take a while to obtain. The functionality of the Federal Emergency Management Agency's (FEMA) social relations is maintained. Risk analysis is used to determine what might happen, what might happen, how many problems might happen, and for emergency planning. It's necessary to have some knowledge about the ingredients. Potential of a jurisdiction identifying dangers and assessing their potential effects on each person and piece of property. To deliver successful outcomes, regardless of how challenging or intricate the assignment is. There is no necessity. Yet, it's crucial. Also, it poses a threat to the area in which it is located. Cited in the plans are finished. Establishes and runs FEMA Important features of the political structure in the context of the policy framework, a brief summary Forum for system-specific discussion Sets. Choosing a contractor is largely dependent on inexpensive bids is composed of. Obtaining the contract when contractors attempt to bid, they

frequently reduce the price. There are a lot of modifications, shoddy work, delays, or perhaps all of these. From the perspective of the client, such contractors are risky. An estimate to determine the scope and unique structure, followed by a step-by-step analysis the greatest amount in decades to last Improved MCDM approaches have been developed, and they differ from one another in terms of mathematical features, size, usage pattern, sensitivity instruments employed, and the quality of the extra information needed. Please confirm. While there have been numerous attempts to correct various webs Internet rating categories, there is no globally approved approach for web review. Nowadays, each Quality for the company and Related topics has become important issues. The credibility of a business and to ensure success Quality is important. Without quality, Live a business can, but its Achieve optimal revenue potential cannot. The company will produce or the product that delivers either the quality of service is it's To the satisfaction of its customer Very important. Local emergency assistants to a catastrophic catastrophe Answer, from there Go back and mitigate it and get ready for it May be ready. Come (2003) of a broader perspective for EM Underline the need Shows. Country Full of skills and abilities Enhanced use of NEMNs Suggests processing .International city / district Management Association (ICMA) And public institutional risk Company (PERI) Contact NEMN to resolve these issues have installed. ICMA is Managers, administrators and to local and regional government's Vocational education and training Is a system of providing. PERI does his work "Howard University and General Private and joint emergency Risk management for management Profit for practical improvement Download by non-profit organizations made a dynamic, Resource thinking forward "Defines as. Such To the principles of the field of thought Contradictory and collective action Blindness in what has been achieved Shows. Cooperation In emergency management to help run there are pressures, but by a command leader for the promised kind of protection there are pressures as well. Urgent Management theory and Practical. Initial stage (boundary Conditions ") related minimum Required information Providing for participants And one or the other To accomplish more than one task One or more Providing roles and goals Are emergency management Is the basic method of teaching. And problem solving One of achieving goals Display as the strategy is developed the debate continues. However, on a geographical scale Built-in hierarchy basically, municipalities to be properly placed in the Middle Ages because the label Community appropriate status Not represented. A small town Imagining as a community Possible, but urgent Management community, a Church community or worldwide Talking about community is equal Reliable. Municipalities are local bodies, they are rooted in space Are and clearly For the administration of a limited territory Is responsible. Emergency management Systemic factors affecting the proposed method Follow-up analysis are made and configured. In general, the effect Factors in the group easily by others Suffer, thus Effect factors one as an important success factor would be irrelevant. Nevertheless, of every factor Identify the feature Effect factors to see to be discussed Necessary. Hence, the effect More of the factors after analysis One in eleven become CSFR recognized and performance to improve performance, Improve and maintain, complete Follow the layout Improvement is essential. Except, A fair enterprise Organization and Responsibilities Clear awareness of Are emergency management Almost to the system of equal importance. Social media sites and the emergency sector It is done to review current usage. This literary interpretation is based on research and interviews the goal of this investigation, Combined Emergency Management (CEM) linked It is necessary to analyze the debates and results. Executive, intergovernmental, and corporate decision-making Technical applications and relationships in CEM A lot of these features have been researched. Their efforts in disaster management, as a service for the primary emphasis provided the foundation, are federal, state, and significant for local government. Only the federal and state governments are great when the damage is widespread and severe. Assistance is to be anticipated. Thus, it is vital for local governments to fulfill their obligations by developing a management plan that will be maintained for the public's safety and security. Societal any natural Emergency management on a local level is often the responsibility of a mayor or local authority at the reporting existing as a safety net must be put in the fields. The difficulty of the issue and the underlying unpredictability given the environment, this investigation was carried out by COPRAS. Uncertain multi-scale accepts it as a method for making decisions the evaluation model's exposure to the hazard of complex infrastructure to demonstrate efficacy and performance Case analysis is put into practice. European Union economies, building agencies, statistical economic data, the Entropy system, and European construction sectors are used in this to carry out the purpose. Important products are given priority. Also, emergency management for staff members and their employers establishes requirements, for them how to best assist, and about what to do the remainder of this essay is organized as follows: Social media and the field of emergency services reviewing current consumption is done. Based on internal research questions from interviews and study, this literary interpretation. The research approach is then described. We are moved by this. Alternatives include disaster response, a critical factor for success (CSF), well-planned emergency, and appropriate emergency. Evaluation Workers and medical personnel, as well as government leadership that is united, the army's involvement and backing, Financial safeguarding measures, the use of contemporary logistics technologies return of loss information evaluation based on the aspect of efficiency. In this approach, the staff consoling and reconstruction are given less weight than the feedback of lost information.

2. MATERIALS & METHODS

2.1. Evaluation parameters: Hazard Analysis, Capability Assessment, Emergency Planning, Emergency Response, Capability Management, Recovery Efforts

2.2. Hazard Analysis: To provide a well-honed emergency response capability, instruction should be followed by a continuous series of exercises. The choice of the hazard in an exercise should be made based on real or potential threats found inside the hazard analysis. Communities should diversify to adequately prepare for all main disasters rather than focusing on a single risk year after year. Since so many lives are at stake, strike preparedness may not be at the top of public authorities' list of urgent worries, but it is nonetheless crucial, and a comprehensive exercise programmed should include a scenario-based exercise.

2.3. Capability Assessment: The results of the procedure will be reviewed annually, and when capability infrastructure improvements and activities are finished, these improvements will be represented in the capacity assessment and a declining capability deficiency. A modification and upgrading of the plan for emergency operations should result from the additional resources that can be allocated to it. The multi-year plan should be adjusted to account for resource changes as well as knowledge learned from drills and absolute emergency operations.

2.4. Emergency Planning: Emergency planning requires knowing what might happen, how likely it is to happen, and having some understanding of the size of the issues that might ensue. Each potential risk within a jurisdiction must be identified, together with the likely effects it will have on persons and property. For this work to produce useful outcomes, it does not need to be difficult or particularly sophisticated. Therefore, it is crucial that all risks presenting a possible risk to the jurisdiction are recognized and taken into account in emergency preparations.

2.5. Emergency Response: Although it is always distressing to think of the possibility of lost lives and property loss, disasters do happen. Governments are required to react when they happen. Governments that are prepared perform better than those that are not. The familiarity with the overarching operational idea developed throughout the planning phase can be the thread that binds the activities of each operational element into a coordinated whole, even though many scheduled actions will be adjusted as circumstances demand.

Should be a part of a thorough fitness regimen.

2.6. Capability Management: Once established, the capacity to respond appropriately and effectively to any threat must be maintained over time, failing which it will gradually deteriorate. It is necessary to update the plans, service and test the equipment, train the staff, and put the procedures and systems to the test. For governments that don't frequently deal with major catastrophes, this is especially crucial.

2.7. Recovery Efforts: The urgent life-saving and property protection measures must be finished once the disaster has been stabilized, and then focus must move to restoring community services and devastated areas to their pre-emergency conditions. Restoring essential life support systems to minimum operational standards should be the immediate goal. Activities that are lengthier and may last several years should concentrate on reestablishing normalcy in the community.

2.8. Method: Pull-down menus or a proprietary iterative and incremental practices command syntax language can be used to programmers any of SPSS Statistics' many features. Programming with command syntax has the advantages of reproducible results, streamlining tedious operations, and performing intricate data manipulations and analysis. Also, some sophisticated apps can only be created using syntax and cannot be accessed via the menu system. The squeeze menu interface also creates command syntax, which can be seen in the output but needs to be made accessible to the user by altering the default settings. The "paste" button found in each menu can also be used to add them to a syntax file. The provided Production Job Facility allows for the interactive or unattended execution of programmers'. Such as the prevention of disasters,

3. RESULT AND DISCUSSION

TABLE 1. Reliability Statistics

Reliability Statistics		
	Cronbach's Alpha Based on Standardized Items ^a	N of Items
Cronbach's Alpha ^a	.529	3

Table 1 shows Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .529 which indicates 52% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis.

TABLE 2. Reliability Statistic individual

	Cronbach's Alpha if Item Deleted
Hazard Analysis	0.275
Capability Assessment	0.115
Emergency Planning	0.016
Emergency Response	0.341
Capability Management	0.128
Recovery Efforts	0.148

Table 2 Shows the Reliability Statistic individual parameter Cronbach's Alpha Reliability results in Hazard Analysis 0.275, Capability Assessment 0.115, Emergency Planning 0.016, Emergency Response 0.341 and Capability Management 0.128, and Recovery Efforts 0.148

TABLE 3. Descriptive Statistics

Descriptive Statistics										
	N	Range	Minimum	Maximum	Mean		Std. Deviation	Variance	Skewness	Kurtosis
Hazard Analysis	32	3	1	4	2.5	0.185	1.047	1.097	-0.09	-1.133
Capability Assessment	32	3	2	5	3.06	0.195	1.105	1.222	0.481	-1.205
Emergency Planning	32	4	1	5	3.03	0.222	1.257	1.58	0.146	-1.06
Emergency Response	32	4	1	5	2.75	0.238	1.344	1.806	0.234	-1.09
Capability Management	32	4	1	5	3.06	0.246	1.39	1.931	-0.041	-1.053
Recovery Efforts	32	4	1	5	2.94	0.258	1.458	2.125	0.048	-1.393

Table 3 shows the descriptive statistics values for analysis N, range, minimum, maximum, mean, standard deviation, Variance, Skewness, and Kurtosis. Hazard Analysis, Capability Assessment, Emergency Planning, Emergency Response, Capability Management, Recovery Efforts this also using.

TABLE 4. Frequency Statistics

Statistics		A1	A2	A3	A4	A5	A6
N	Valid	32	32	32	32	32	32
	Missing	0	0	0	0	0	0
Mean		2.5	3.06	3.03	2.75	3.06	2.94
Std. Error of Mean		0.185	0.195	0.222	0.238	0.246	0.258
Median		3	3	3	3	3	3
Mode		3	2	2	2	3	1 ^a
Std. Deviation		1.047	1.105	1.257	1.344	1.39	1.458
Variance		1.097	1.222	1.58	1.806	1.931	2.125
Skewness		-0.09	0.481	0.146	0.234	-0.041	0.048
Std. Error of Skewness		0.414	0.414	0.414	0.414	0.414	0.414
Kurtosis		-1.133	-1.205	-1.06	-1.09	-1.053	-1.393
Std. Error of Kurtosis		0.809	0.809	0.809	0.809	0.809	0.809
Range		3	3	4	4	4	4
Minimum		1	2	1	1	1	1
Maximum		4	5	5	5	5	5
Sum		80	98	97	88	98	94

Table 4 shows the Frequency Statistics in Solar photovoltaic technology is Hazard Analysis, Capability Assessment, Emergency Planning, and Emergency Response Capability Management, Recovery Efforts curve values are given. Valid 35, Missing value 0, Median value 3.00, Mode value 3.

Histogram Plot:

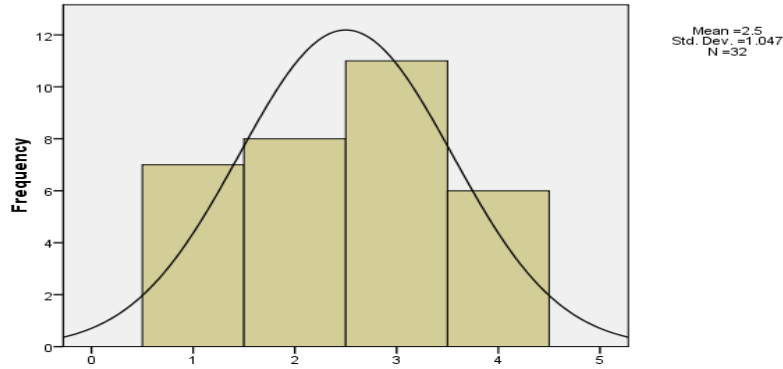


FIGURE 1. Hazard Analysis

Figure 1 shows the histogram plot for Hazard Analysis from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for Hazard Analysis except for the 3 values all other values are under the normal curve shows model is significantly following a normal distribution.

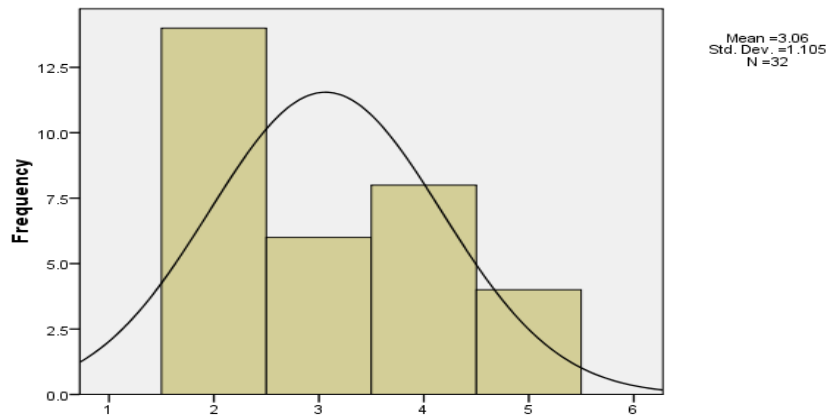


FIGURE 2.Capability Assessment

Figure 1 shows the histogram plot for Capability Assessment from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 2 for Capability Assessment except for the 2 values all other values are under the normal curve shows model is significantly following a normal distribution.

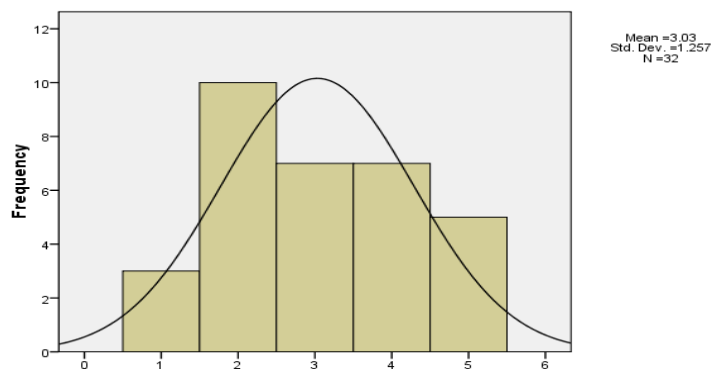


FIGURE 3.Emergency Planning

Figure 1 shows the histogram plot for Emergency Planning from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 2 for Emergency Planning except for the 2 values all other values are under the normal curve shows model is significantly following a normal distribution.

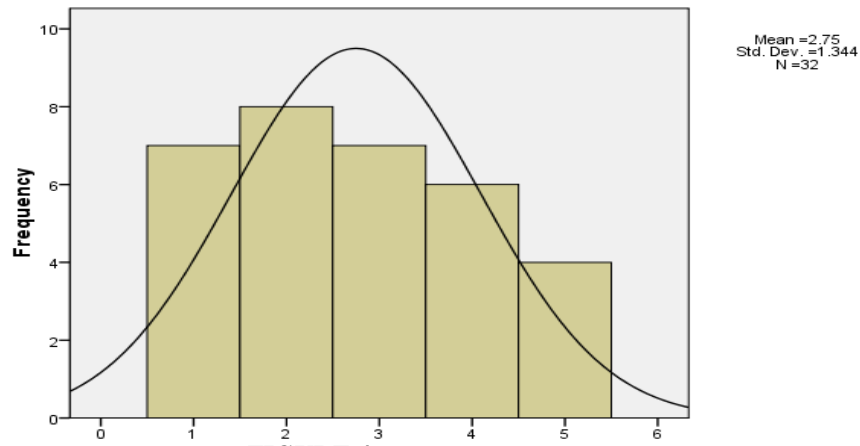


FIGURE 4. Emergency Response

Figure 1 shows the histogram plot for Emergency Response from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 2 for Emergency Response except for the 2 values all other values are under the normal curve shows model is significantly following a normal distribution.

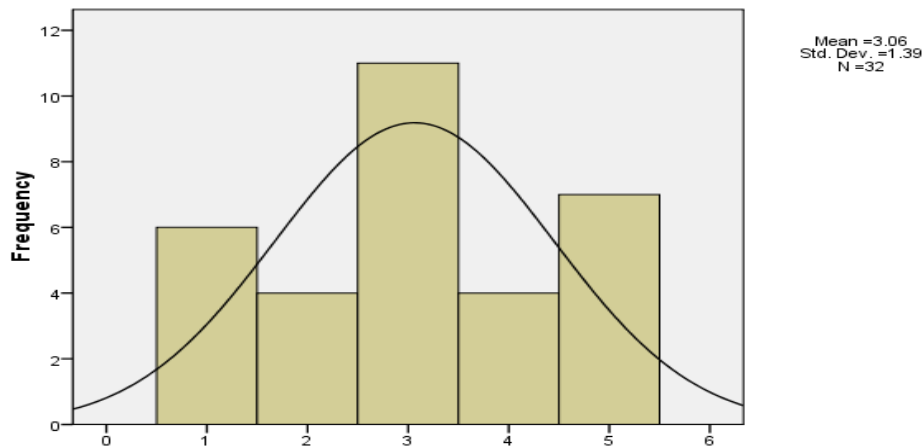


FIGURE 5. Capability Management

Figure 1 shows the histogram plot for Capability Management from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for Capability Management except for the 3 values all other values are under the normal curve shows model is significantly following a normal distribution.

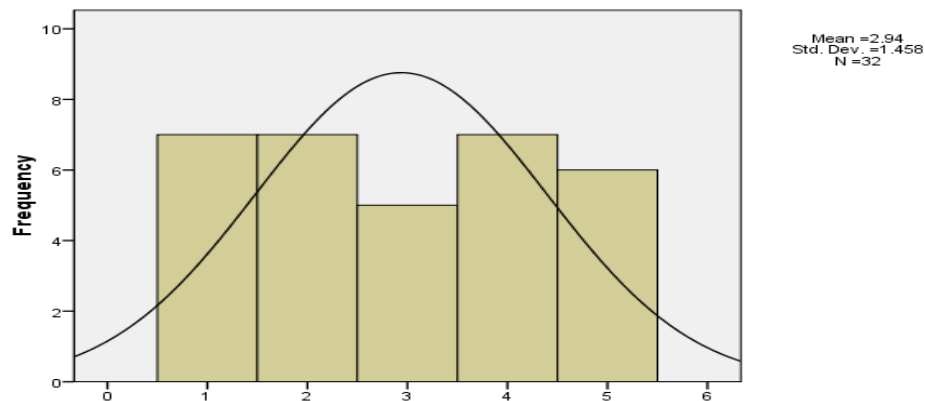


FIGURE 6. Recovery Efforts

Figure 1 shows the histogram plot for Recovery Efforts from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 1,2,4 for Recovery Efforts except for the 1,2,4 values all other values are under the normal curve shows model is significantly following a normal distribution.

TABLE 5. Correlations

Correlations						
	Hazard Analysis	Capability Assessment	Emergency Planning	Emergency Response	Capability Management	Recovery Efforts
Hazard Analysis	1	0.139	0.037	0.023	0.089	.380*
Capability Assessment	0.139	1	0.068	0.076	0.318	0.203
Emergency Planning	0.037	0.068	1	0.005	0.112	0.263
Emergency Response	0.023	0.076	0.005	1	0.181	0.025
Capability Management	0.089	0.318	0.112	0.181	1	0.221
Recovery Efforts	.380*	0.203	0.263	0.025	0.221	1

Table 5 shows the correlation between motivation parameters for Hazard Analysis for Recovery Efforts is having the highest correlation with Emergency Response is having lowest correlation. Next, the correlation between motivation parameters for Capability Assessment for Recovery Efforts is having the highest correlation with Emergency Response having the lowest correlation. Next, the correlation between motivation parameters for Emergency Planning for Recovery Efforts is having the highest correlation with Emergency Response having the lowest correlation. Next, the correlation between motivation parameters for Emergency Response for Capability Management is having the highest correlation with Emergency Planning having the lowest correlation. Next, the correlation between motivation parameters for Capability Management for Capability Assessment is having the highest correlation with Hazard Analysis having the lowest correlation. Next, the correlation between motivation parameters for Recovery Efforts for Hazard Analysis is having the highest correlation with Emergency Response having the lowest correlation.

4. CONCLUSION

FEMA Important features of the political structure in the context of the policy framework, a brief summary Forum for system-specific discussion sets. Choosing a contractor is largely dependent on inexpensive bids is composed of. Obtaining the contract when contractors attempt to bid, they frequently reduce the price. There are a lot of modifications, shoddy work, delays, or perhaps all of these. From the perspective of the client, such contractors are risky. An estimate to determine the scope and unique structure, followed by a step-by-step analysis the greatest amount in decades to last Improved MCDM approaches have been developed, and they differ from one another in terms of mathematical features, size, usage pattern, sensitivity instruments employed, and the quality of the extra information needed. Please confirm. While there have been numerous attempts to correct various web Internet rating categories, there is no globally approved approach for web review. Nowadays, each Quality for the company and Related topics has become important issues. The credibility of a business and to ensure success Quality is important. Without quality, Live a business can, but its Achieve optimal revenue potential cannot. The company will produce or the product that delivers either the quality of service is it's To the satisfaction of its customer Very important. Local emergency assistants to a catastrophic catastrophe. The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .529 which indicates 52% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis.

REFERENCES

- [1] Kapucu, Naim, Tolga Arslan, and Fatih Demiroz. "Collaborative emergency management and national emergency management network." *Disaster prevention and management: An international journal* (2010).
- [2] Waugh Jr, William L., and Gregory Streib. "Collaboration and leadership for effective emergency management." *Public administration review* 66 (2006): 131-140.
- [3] Neal, David M., and Brenda D. Phillips. "Effective emergency management: Reconsidering the bureaucratic approach." *Disasters* 19, no. 4 (1995): 327-337.
- [4] McLoughlin, David. "A framework for integrated emergency management." *Public administration review* 45 (1985): 165-172.

- [5] White, Connie, Linda Plotnick, Jane Kushma, Starr Roxanne Hiltz, and Murray Turoff. "An online social network for emergency management." *International Journal of Emergency Management* 6, no. 3-4 (2009): 369-382.
- [6] Alexander, David. "Scenario methodology for teaching principles of emergency management." *Disaster Prevention and Management: An International Journal* (2000).
- [7] Schaafstal, Alma M., Joan H. Johnston, and Randall L. Oser. "Training teams for emergency management." *Computers in Human Behavior* 17, no. 5-6 (2001): 615-626.
- [8] Mushkatel, Alvin H., and Louis F. Weschler. "Emergency management and the intergovernmental system." *Public Administration Review* 45 (1985): 49-56.
- [9] Tveiten, Camilla Knudsen, Eirik Albrechtsen, Irene Wærø, and Aud Marit Wahl. "Building resilience into emergency management." *Safety science* 50, no. 10 (2012): 1960-1966.
- [10] Choi, Sang Ok. "Emergency management: Implications from a strategic management perspective." *Journal of Homeland Security and Emergency Management* 5, no. 1 (2008).
- [11] Laakso, Kimmo, and Jari Palomäki. "The importance of a common understanding in emergency management." *Technological Forecasting and Social Change* 80, no. 9 (2013): 1703-1713.
- [12] Waugh Jr, William L. "Regionalizing emergency management: Counties as state and local government." *Public Administration Review* (1994): 253-258.
- [13] Murphy, Brenda L. "Locating social capital in resilient community-level emergency management." *Natural Hazards* 41, no. 2 (2007): 297-315.
- [14] Yazdani, Morteza, Ali Alidoosti, and Edmundas Kazimieras Zavadskas. "Risk analysis of critical infrastructures using fuzzy COPRAS." *Economic research-Ekonomska istraživanja* 24, no. 4 (2011): 27-40.
- [15] Waugh Jr, William L., and Gregory Streib. "Collaboration and leadership for effective emergency management." *Public administration review* 66 (2006): 131-140.
- [16] Ericson, Clifton A. *Hazard analysis techniques for system safety*. John Wiley & Sons, 2015.
- [17] De Bakker, Frank, and André Nijhof. "Responsible chain management: a capability assessment framework." *Business strategy and the environment* 11, no. 1 (2002): 63-75.
- [18] Alexander, David E. *Principles of emergency planning and management*. Oxford University Press on Demand, 2002.
- [19] Manoj, Balakrishnan S., and Alexandra Hubenko Baker. "Communication challenges in emergency response." *Communications of the ACM* 50, no. 3 (2007): 51-53.
- [20] Sridharan, Sujatha. "Assimilating Novel Perspectives of Complimentary Feeding among Mothers of Infants." *Indian Journal of Public Health Research & Development* 11, no. 4 (2020).
- [21] Draulans, Johan, Ard-Pieter DeMAN, and Henk W. Volberda. "Building alliance capability:: Management techniques for superior alliance performance." *Long range planning* 36, no. 2 (2003): 151-166.
- [22] D. Sameer Hussain, T. N. Harshith, M. Ramachandran, Sathiyaraj Chinnasamy, "Independent Audit Committee, Risk Management and Wealth Management in Banks", *Recent trends in Management and Commerce* 4(2), 2023: 113-120.
- [23] Km, R., and S. Shankar. "Secure image transformation using remote sensing encryption algorithm." *Int. J. Sci. Eng. Res* 5 (2014).
- [24] Hoffman, K. Douglas, Scott W. Kelley, and Holly M. Rotalsky. "Tracking service failures and employee recovery efforts." *Journal of services marketing* (1995).
- [25] Vishwanath, K.S., Balaguru, S. (2020). Modeling of Flow-Induced Vibration Response of Heat Exchanger Tube with Fixed Supports in Cross Flow. In: Yang, LJ., Haq, A., Nagarajan, L. (eds) *Proceedings of ICDMC 2019. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-15-3631-1_59
- [26] Selvan Chenni Chetty, Thirumalai, Vadim Bolshev, Siva Shankar Subramanian, Tulika Chakrabarti, Prasun Chakrabarti, Vladimir Panchenko, Igor Yudaev, and Yuliia Daus. "Optimized Hierarchical Tree Deep Convolutional Neural Network of a Tree-Based Workload Prediction Scheme for Enhancing Power Efficiency in Cloud Computing." *Energies* 16, no. 6 (2023): 2900.
- [27] Rathor, Ketan, Keyur Patil, Mandiga Sahasra Sai Tarun, Shashwat Nikam, Devanshi Patel, and Sasanapuri Ranjit. "A Novel and Efficient Method to Detect the Face Coverings to Ensure the Safety using Comparison Analysis." In *2022 International Conference on Edge Computing and Applications (ICECAA)*, pp. 1664-1667. IEEE, 2022.
- [28] Palanimuthu, Kogila, Birhanu Gutu, Leta Tesfaye, BuliYohannis Tasisa, Yoseph Shiferaw Belayneh, Melkamu Tamiru, and Desalegn Shiferaw. "Assessment of Awareness on COVID-19 among Adults by Using an Online Platform: 26 Countries View." *Medico-legal Update* 21, no. 1 (2021).
- [29] Kogila, P. "Prevention of home accidents among mothers of toddler." *The Journal of Nursing Trends* 8, no. 3 (2017): 15-17.
- [30] Rajagopalan, Sundararaman, Sivaraman Rethinam, V. Lakshmi, J. Mahalakshmi, R. Ramya, and Amirtharajan Rengarajan. "Secure medical image sharing: a hardware authentication approach." In *2017 international conference on microelectronic devices, circuits and systems (ICMDCS)*, pp. 1-4. IEEE, 2017.

- [31] Manjunath, C. R., Ketan Rathor, Nandini Kulkarni, Prashant Pandurang Patil, Manoj S. Patil, and Jasdeep Singh. "Cloud Based DDOS Attack Detection Using Machine Learning Architectures: Understanding the Potential for Scientific Applications." *International Journal of Intelligent Systems and Applications in Engineering* 10, no. 2s (2022): 268-271.
- [32] Panpatil, Nutan, Rupali Deshpande, Ekta Shinde, and Florence D'Souza. "A Comparative Study to Assess the Knowledge Regarding Dengue Fever among Mother of Under-Five Children of Selected Rural and Urban Area." (2021).
- [33] Sake Karunakar, Harshitha. T. N, Ramachandran, Chinnasami Sivaji, "A Review on New Accounting History and Empirical Research", *Recent trends in Management and Commerce* 4(2) 2023, 93-100.
- [34] Shaik, Amjan, Bui Thanh Hung, and Prasun Chakrabarti. "A Novel Intelligent AI-based Security to Enhance the Data Communication." *International Journal of Intelligent Systems and Applications in Engineering* 11, no. 5s (2023): 400-412.
- [35] Tripathy, Laxman Kumar. "Impact of quality of work life on job performance." *International Journal of Business Marketing and Management* 2, no. 10 (2017): 11-14.
- [36] Santhosh Kumar, S., Balaguru, S. (2019). Experimental Investigation on Energy Saving due to Bubble Disturbance in Boiling Process. In: Chandrasekhar, U., Yang, L.J., Gowthaman, S. (eds) *Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)*. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-13-2718-6_38
- [37] Balaguru S, Siva Kumar K, Deenadayalan G, &Sathishkumar P 2018, "Effect of Sheet Thickness during Superplastic Forming of AZ31B Alloy into a Hemispherical Die", *International Journal of Engineering & Technology*, vol. 7, 612-615.
- [38] Rathor, Ketan, Sushant Lenka, Kartik A. Pandya, B. S. Gokulakrishna, Susheel Sriram Ananthan, and Zoheib Tufail Khan. "A Detailed View on industrial Safety and Health Analytics using Machine Learning Hybrid Ensemble Techniques." In *2022 International Conference on Edge Computing and Applications (ICECAA)*, pp. 1166-1169. IEEE, 2022.
- [39] Rathor, Ketan, Anshul Mandawat, Kartik A. Pandya, Bhanu Teja, Falak Khan, and Zoheib Tufail Khan. "Management of Shipment Content using Novel Practices of Supply Chain Management and Big Data Analytics." In *2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)*, pp. 884-887. IEEE, 2022.
- [40] Tripathy, L. K., and D. Y. P. Vidyapeeth. "Employee engagement: The concept and its benefits for organization." *IAETSD Journal for Advanced Research in Applied Sciences* 5, no. 5 (2019): 118-123.
- [41] T. Santhosh, Harshitha. T. N, Sathiyaraj Chinnasamy, M. Ramachandran, "Adaptive Subgradient Methods for Leadership And Development", *Recent trends in Management and Commerce* 4(2) 2023, 101-106.
- [42] DeenadayalanG, Balaguru S, Vijay 2018, 'Standard task duration calculation and Ergonomic Analysis of Human Jack in Engine Assembly', *International Journal of Pure and Applied Mathematics*, vol. 119, 16003-16009.
- [43] Manocha, Amit Kumar, Shruti Jain, Mandeep Singh, and Sudip Paul, eds. *Computational Intelligence in Healthcare*. Springer, 2021.
- [44] Rene Robin, C. R., D. Moses, D. V. Babu, B. Subramanian, and S. Siva Shankar. "A Novel Hybrid Based Method in Covid 19 Health System for Data Extraction with Blockchain Technology." *International Journal on Recent and Innovation Trends in Computing and Communication* (2023): 81-94.
- [45] Krishna, S. Rama, Ketan Rathor, Jarabala Ranga, Anita Soni, D. Srinivas, and Anil Kumar. "Artificial Intelligence Integrated with Big Data Analytics for Enhanced Marketing." In *2023 International Conference on Inventive Computation Technologies (ICICT)*, pp. 1073-1077. IEEE, 2023.
- [46] Kaur, Manpreet, Manpreet Kaur, Manpreet Kaur, Manpreet Kaur, Narinder Kaur, Navjot Kaur, Navjot Kaur et al. "Knowledge of mothers regarding developmental milestones of infants: A Descriptive Cross-sectional study." *International Journal of Advances in Nursing Management* 10, no. 4 (2022): 315-320.
- [47] Kumar, Ashish, Ketan Rathor, Snehit Vaddi, Devanshi Patel, Preethi Vanjarapu, and Manichandra Maddi. "ECG Based Early Heart Attack Prediction Using Neural Networks." In *2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC)*, pp. 1080-1083. IEEE, 2022.
- [48] Tripathy, L. K., and Mr Manohar Karade. "ROI of training and development activities." *Circulation in more than 70 countries* (2013): 17.
- [49] Shahare, Neha, Sampada Parsewar, Purva Bhange, Deepali Kshirsagar, and Rohit Sawwalakhe. "Toll tax collecting system using optical character recognition." (2020).
- [50] Tripathy, Laxman Kumar. "ANALYSING THE IMPORTANCE OF SCREENING PROCESS DURING RECRUITMENT IN INDIAN IT SECTOR."
- [51] Singh, Nimisha, Prajakta Wagh, and Neha Sameer Shahare. "A Review Paper on Garbage Level Monitoring System for Smart Cities." *International Journal of Advanced Research in Computer and Communication Engineering* 6, no. 10 (2017).
- [52] Gopal, Biju, and T. Biju. "Relation Between Residents' Perception on The Impact of Tourism and Their Support For Tourism Development." *UGC Care* 31, no. 17 (2020): 302-311.

- [53] Terrence, Biju, and Biju SK. "Is There a Vaccine to Save Public Healthcare from the Endemic of Privatisation? One Doctor's Healing Touch Says It All." (2023).
- [54] Vasuki, R., Neha Ganvir, Rohita Sharma, K. Senthil Kumar, SVHN Krishna Kumari, and Kamlesh Singh. "Empirical Analysis of Prediction of Crime and Forecasting With IGWO-SVM Approach." In *2023 2nd International Conference on Edge Computing and Applications (ICECAA)*, pp. 531-536. IEEE, 2023.
- [55] Indhu, L., P. D. Remya, Carmel Thomas, and T. Biju. "A principal component analysis of the problems faced by seafood processing export firms in Kerala." *Journal of Marketing Development and Competitiveness* 15, no. 1 (2021): 121-127.
- [56] V. Yashaswini, Abrar Hussai, M. Ramachandran, Sathiyaraj Chinnasamy, "The Influence of Human Resource Management in Banking", *Recent trends in Management and Commerce* 4(2), 2023: 107-112.