

## A Comparative Evaluation of Life Quality in Residential Neighborhoods, Case Study: Kamyaran City

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### Extended abstract

#### Introduction

Nowadays, on the beginning of the third millennium, the settlement of human beings as a dominant phenomenon is growing in a way that urban revolution has appeared as a recent topic. It is predicted that future population growth will mainly occur in urban areas particularly urban areas in developing countries. Although cities and urbanism are one of the most important indicators of welfare and socio-economic development, the rapid growth of such a phenomenon can reduce the per capita possession of many social and economic facilities. This might lead to a decrease in life quality in different urban areas. For example, in many urban areas of the developing countries, unemployment and social issues are growing while the environment and health situations are in decline. Similarly, inequalities in income and access to public services are growing and more poverty, vulnerability, and despair have started to be observed among urban residents. Thus, the issue of urban life quality was one of the first topics that attracted the attention of urban experts during the 1930s. As a result, more efforts were made to improve the quality of human life. The sudden growth of cities in Iran had caused different problems in cities that have experienced large influenced urban life quality in different ways. Kamyaran city is not an exception to the rule as life quality has undergone different changes in this city, as well. Therefore, in this study, we tried to investigate life quality in Kamyaran city using VIKOR technique. Accordingly, it was tried to answer the following questions: (1) Is the economic indicator more effective in improving the life quality of Kamyaran residents? (2) Are life quality measures in a desirable state in Kamyaran City?

#### Methodology

This article in terms of target is applied-developmental and in terms of method is descriptive-analytical. The theoretical framework using documentary method, library and review of the literature related to the quality of life in its different aspects and factors affecting the quality of urban life. We designed questionnaire in both subjective and objective, with economic, social and physical indicators and a total of 15 items to measure the quality of life. In the second part, using Cochran sampling frame, and random quota sample of 381 items, we calculated the

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population from the ages 22 to 54 years old. The people were collected and distributed and Cronbach's alpha coefficient was introduced in SPSS. The reliability alpha was 0.713 that confirms the reliability of the questionnaire. Then, survey method was used to complete the information. To provide economic information with the statements of income, household expenses, rent and land prices in addition to the questionnaire, interview technique was used and the same people are asked to enter numbers. The next step is to complete the information and calculate the physical neighborhoods; the study was a comprehensive plan for the all of the city. The data from this information and questionnaire were averaged to be considered as the primary matrix. Finally, we used Vikor techniques to determine the weights and dimensions used by entropy method and to determine the final ranking of quality of life in city neighborhoods.

### Discussion and Results

In VIKOR technique, based on the calculated  $Q_i$  values, options and result decision-making, there are some differences between neighborhoods. It is notable that in Vikor technique no matter how much  $Q_i$  is less than the number of components. It is one of the major differences between these models with other models in the ranking. The following table shows the results of ranking places in the Kamyaran city. The results show that Pir Mohammad 1 neighborhood has the best situation of life quality and Shahrake-Be'ssat ph.2 has the worst situation based on the comparatives.

Table 1. Kamyaran City neighborhoods VIKOR ranking

VIKOR Ranking	$Q_i$	Neighborhoods
4	0.15817	Shahre-Bazi
3	0.13609	Masjed Jame'e
6	0.25587	20 metry
8	0.61634	Balaye-Kamarbandi
2	0.08303	Pir Mohammad 2
1	0.06212	Pir Mohammad 1
9	0.069724	Shahrake-Emam Khomeyni
7	0.31941	Shahrake-Elahyeh
11	0.80394	Shahrake-Be'ssat ph.1
12	0.88456	Shahrake-Be'ssat ph.2
10	0.79215	Shahrake-Be'ssat ph.3
5	0.16863	Kamyaran-e ghadim

### Conclusions

Life quality is one of the basic indicators to express and represent major development in every society and country. Awareness of the quality and quantity of life for community planners and politicians can contribute to revision and improvement in a variety of designs and development programs. Knowledge, study and comparison of life quality indicates, measures and comparative over time in any society whether living conditions improved over time or is depressed. This is one of the most important criteria in assessing the situation using the multi-criteria decision-making models and techniques (MCDM). In order to improve the quality of life in the Kamyaran city, we presented the following suggestions:

#### In the economic dimensions:

- Rely on the abilities and talents in economic urban areas by the public and private sectors;
- Orientation, socio-economic development plans to solve the problem of unemployment and creating new employment opportunities;
- Identify and make planning for deployment of human and material resources as well as their qualitative and quantitative improvement;
- Optimal management and regulation of urban lands and housing and also prevent speculation;

### In the Physical dimensions:

- Use the views of citizens in the city of plans and programs;
- Fix problems, and distribution facilities in the city;
- Create and manage city streets by the people themselves;
- Develop green spaces and improve the quality of urban parks;
- Strengthen the network of relationships, trust and a sense of reciprocity in order to facilitate individual activities or social collaboration based on real relationships, shared norms or values;

### In the Social dimensions:

- Targeted action at policies promoting and social capital;
- provide further context, to social participation of citizens in the realization of urban development plans;
- Analyze and identify segregation of minority groups to better understand Characteristics of ethnic, religious, linguistic and social behavior.

**Keywords:** Kamyaran City, quality of urban life, Shannon's Entropy, Urban Fabric, VIKOR Techniques.

## References

1. Aghajani Bazzazi, A., Osanloo, M. and Karimi, B. (2011). **Deriving preference order of open pit mines equipment through MADM methods: Application of modified VIKOR method**, Expert Systems with Applications, Vol. 38, No. 3, pp. 2550-2556.
2. Akhondi, A.A., Barakpur, N., Khalili, A., Sedaghatnia, S. and Safiyari, R. (2014). **Measuring Quality of Urban Life in Tehran Metropolitan**, Journal HONAR\_HA\_YE\_ZIBA MEMARI VA SHAHRSAZI, Vol. 19, No. 2, pp. 5-22.
3. Ali Akbari, E. and Amini, M. (2010). **Urban Quality of Life in Iran (1986-2006)**, Journal of Social Welfare, Year 10, No. 36, pp. 121-148.
4. Anabestani, A.A. and Anabestani, Z. (2012). **Urban Management Performance Impact on Advancement Quality of Life of Citizens (Case study: New Town Gulbahar)**, Journal of Iranian Social Development Studies, Vol. 4, No. 4, pp. 23-34.
5. Asghari Zamani, A., Zadoly Khaje, Sh. and Gholamhosein, R. (2012). **Evaluating The Quality Of Urban Life In Urban Areas Using Factor Analysis (Case Study: The Fringe Areas In The North of Tabriz)**, the Zagros a geographic perspective, Vol. 4, No. 11, pp. 69-86.
6. Baldwin, S., Godfrey, Ch., and Propper, C. (1990). **Quality of life: perspectives and policies**, Publisher: Routledge, New York.
7. Baycan-Levent, T. and Nijkamp, P. (2006). **Quality of Urban Life: a Taxonomic Perspective**. Journal of Studies in Regional Science. Vol. 36. No. 2, pp. 269-281.
8. Chua, Mei-Tai., Shyua, Joseph, B., Gwo-Hshiung Tzenga & Rajiv Khosla (2006). **Comparison among three analytical methods for knowledge communities group-decision analysis**, Expert Systems with Applications, Vol. 33, No. 4, pp. 1011-1024.
9. Cramer, V., Torgersen, S. and Kringlen, E. (2004). **Quality of Life in a City: The Effect of Population Density**, Social Indicators Research, Vol. 69, No. 1, pp. 103-116.

10. Ebrahimzadeh, I., Ahar, H., Tahmasby, F., Manoochehri Miyandoab, A. and Shahnaz, A.A. (2014). **Quality of Life in Two Old and New Textures Maragheh Using Entropy and ELECTRE Models**, Amayesh Journal, Vol. 7, No. 26, pp. 1-18.
11. Epley, R., Donald and Menon, M. (2008). **A Method of Assembling Cross-sectional Indicators into a Community Quality of Life**, Social Indicators Research, Vol. 88, No. 2, pp. 281-296.
12. George, L.K. and Bearon, L.B. (1980). **Quality of Life in Older Persons. Meaning and Measurement**, New York: Human Sciences Press.
13. Hataminezhad, H., Pourahmad, A., Mansourian, Rajaei, H. and Rajaei, A. (2013). **Spatial Analysis of Quality of Life Indicators in Tehran City**, Journal of Human Geography, Vol. 45, No. 4, pp. 56-29.
14. Hosseini, S.H. and Bagherian, Kh. (2014). **An analysis on constituent component of quality of life in Nowshahr**, Amayesh Journal, Vol. 7, No. 27, pp. 78-55.
15. Hosseinzadeh, A., Ahmadipour, T., Mavalizadeh, E. (2014). **A Study Relation Emotion Social Security-Economy, Social-Economy Status on Quality of Life Persons (Case Study: Ahwaz City)**, Journal of Social Development, Vol. 9, No. 1, pp. 11-134.
16. Kamp, I., K, Van, Leidelmeijer, K., Marsman, G. and de Hollander, A. (2003). **Urban environmental quality and human wellbeing: Towards a conceptual framework and demarcation of concepts; a literature study**, Landscape and Urban Planning, Vol. 65, No. 1-2, pp. 5-18.
17. Khademolhosseini, A., Mansourian, H. and Sattari, M.H. (2010). **Measuring the Quality of Life in Urban Areas (Case Study: City Nurabad, Lorestan Province)**, Journal of Geography and Environmental Studies, Vol. 1, No. 3, pp. 45-60.
18. Khalo Bagheri, M. (2011). **Dealing with Spatial Inequality while Implementing Life-Quality-Enhancement-Based Planning (The Case of District 13 of the City of Tehran)**, Journal of Urban Economics and Management, Vol. I, No. 1, pp. 67-49.
19. Khoshfar, Gh.R., Khaje Shahkuhi, A., Karami, Sh. and Bargahi, R. (2013). **The Relation between Social Capital & Quality of Life in Civic Areas (Case Study: Gorgan Urban Areas)**, Geographical Planning of Space Journal, Vol. 3, No. 9, pp. 179-151.
20. Rabbani Khorasgani, A. and Kianpour, M. (2007). **The Proposed Model for Measuring Quality of Life (Case study: Isfahan)**, the Faculty of Literature and Humanities (University Khwarizmi), Vol. 15, No. 58-59 (Special Issue of Social Sciences 4), pp. 67-108.
21. Rezvani, M.R. and Mansourian, H. (2008). **Quality of Life: The Concepts, Indicators, Models and Proposed Model for Rural Areas, Rural Development**, Vol. 11, No. 3, pp. 1-26.
22. Rezvani, M.R., Motakan, A.A., Mansourian, H. and Sattari, M.H. (2009). **Development and Assessment of Indicator of Urban Life Quality (Case Study: City Nurabad, Lorestan Province)**, Journal Urban Regional Studies, Vol. 1, No. 2, pp. 110-87.
23. Kokabee, A. (2007). **The Criteria for Assessing the Quality of Urban Life in the Urban Centers**, Journal of the town's identity, No 1, pp. 87-75.
24. Kord Zanganeh, J. (2006). **Examining Quality of Life Related to Elderly and The Factors Influencing It (Case Study: City Ramhormoz)**, M.A. thesis in Sociology, Faculty of Social Sciences, University Of Tehran.
25. Lotfi, S. (2009). **The Concept of Quality of Urban Life: Definitions, Dimensions and Measurement that in Urban Planning**, Journal of Human Geography, Vol. 1, No. 4, pp. 65-80.
26. Lotfi, S. and Karim, S. (2009). **An Assessment of Urban Quality of Life by Using Analytic Hierarchy Process Approach (Case study: Comparative Study of Quality of Life in the North of Iran)**, Department of Urban Planning, Journal of Social Sciences. Vol. 5, No. 2, pp. 123-133.

27. Maleki, S., Zarei, J. and Nasiri Ghale Bin, S. (2014). **Analyzing the Quality of Urban Life in the Old Context (Case Study: District 9 of Tehran)**, Journal of Geography and Environmental Studies, Vol. 3, No. 12, pp. 19-34.
28. Massam, B.H. (2002). **Quality of Life: Public Planning and Private**, Progress in planning, Vol. 58, No. 3, pp. 141-227.
29. Mccrea, R., Tung-Kai, Sh. and Stimson, R. (2004). **Modelling Urban Quality of Life in South East Queensland by Linking Subjective and Objective Indicators**, 28th Australian and New Zealand regional Science Association International Annual Conference, Wollongong.
30. Morais, P. and Camanho, A.S. (2010). **Evaluation of Performance of European Cities with the Aim to Promote Quality of Life Improvements**, Omega, Vol. 39, No. 4, pp. 398-409.
31. Naghsh Pyravsh of Consulting Engineers (2008). **The master plan Kamyaran**, The Department of Housing and Urban, published on a comprehensive system of electronic document management and digital archiving of Iran's Supreme Council for Planning and Architecture.
32. Nazarian, A. (2010). **The Dynamics of Urban Systems Iran**, Second Edition, published by Mobtakeran, Tehran.
33. Pal, A.K. and Kumar, U.C. (2005). **Quality of Life Concept for the Evalution of Societal Development of rural Community in west Bangal**, Journal Asia-Pacific Journal of Rural Development, Vol. 15, No. 2, pp. 83-93.
34. Santos, L. and Martins, I. (2007). **Monitoring Urban Quality of Life: The Porto Experience, Social Indicators Research**, Vol. 80, No. 2, pp. 411-425.
35. Schyns, P. and Boelhouwer, J. (2004). **Measuring Quality Of Life in Amsredam from the Viewpoint of Participation**, The Amsterdam bureau for Research an statistics/ Social and Cultural Planning Office, pp. 1-20.
36. Seifodini, F. (2002). **The Dictionary of Urban and Regional Planning**, Second Edition, Shiraz University.
37. Sheikholeslami, A.R. and Khoshbin, N. (2012). **Quality of Life (Case Study: area 1 Behshahr City)**, The Geographical Scope of the Zagros Journal, Vol. 4, No. 14, pp.99-114.
38. Statistical Center of Iran, **population and housing census years: 1976, 1986, 1996, 2006 and 2011**. Accessible through the site: <http://www.amar.org.ir>.
39. Ulengin, B., Ulengin, F. and Guvenc, U. (2001). **A Multidimensional Approach to Urban Quality of Life: The case of Istanbul**, European Journal of Operational Research, Vol. 130, No. 2, pp. 361-374.
40. Wu, J.G., Jenerette, G.D., Buyantuyev, A., Redman, C.L. (2010). **Quantifying Spatiotemporal Patterns of Urbanization: The Case of the Two Fastest Growing Metropolitan Regions in the United States**, Ecological Complexity, doi:10.1016/j.ecocom.2010.03.002.