**Paper Title:**

Ranking of G20 Countries in Terms of Liveability by ELECTRE Method

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**Aim and Scope:** The right to a quality life is one of the most fundamental rights of every individual. Individual's quality of life; It depends on the accessibility of health services provided by the state, educational opportunities, a fair legal order, appropriate and humane working conditions and clean environmental conditions. In the study, a preference ranking of G20 countries was made, taking into account the livability criteria.

**Method:** Multi-criteria decision making techniques (MCDMT) is the general name of the methods that have made significant improvements especially in recent years and provide important convenience for decision-makers. In the literature, there are many MCDM applications that are solved with different approaches, although the process steps are similar. ELECTRE technique used in the study; It was developed by Bernard Roy and proposed in 1966. Within itself; The method, which includes different models such as ELECTRE I, ELECTRE II, ELECTRE III, ELECTRE IV, ELECTRE IS, ELECTRE Iv, ELECTRE-TRI-A, ELECTRE-TRI and ELECTRE-TRI-C, is preferred due to its ease of application and accurate solution suggestions. In this context, obtained from the World Bank official website; forest area, per capita income, life expectancy at birth, legal rights index data were used as benefit-side criteria and CO2 emission and fertility rate data were used as cost-side criteria.

**Results:** In the study, the G20 countries were ranked in terms of livability. Accordingly, as a result of the ranking made by Net Fit Index and Net Mismatch Index; While Japan, Canada and South Korea shared the first places, Argentina, Saudi Arabia and South Africa took the last place in the livability ranking according to the determined criteria.

**Keywords:** Multi Criteria Decision Making Techniques, ELECTRE Technique, G20, Liveability

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