An Evaluation of the Effectiveness of Labor Market Integration Policies in EU Member States Using PROMETHEE

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ABSTRACT

From an economic point of view, the rational response towards migration is the labor market integration of immigrants. Within the above framework, several actions have been developed by the European Union member states over the last few years, in an effort to integrate migrants to local communities. This paper evaluates the performance of the European Member States as regards to their labor market integration policies using the Zaragoza indicators for employment. Combining those indicators, the data will be processed with the well-known multi-criteria analysis method PROMETHEE. The model will be constituted by the selected years from 2008 to 2017 as 10 successive scenarios, the 28 EU countries as alternatives, and eight criteria. The paper will end up with ten final rankings of the countries, which will be analyzed in detail.

KEYWORDS

European Union, Integration, Migration, Multi-Criteria Analysis, Outranking, PROMETHEE

INTRODUCTION

Between 1750 and 1960 Europe used to be the world's prime source of migration. Since 1960 though, most of the EU member states have transitioned from countries of emigration to destination countries of immigrants (Munz, 2007). Postcolonial migration was the first migrant wave towards Europe. Labor migration followed, directed mainly to the North-Western European countries, the economies of which were rapidly growing. The end of the Cold War triggered large numbers of asylum seekers and refugees towards the traditional migrant destinations but also the Southern European countries. Several elements distinguished the immigration experiences of the European member states such as their geographical location, their socio-economic development and their historical background (Doomernik & Bruquetas-Callejo, 2016).

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Social inclusion is one of the key priorities of the Europe 2020 strategy (European Commission, 2010). In this framework, a comprehensive approach towards the implementation of an effective immigrants' labor market integration in the European Union is considered crucial. The targets of the Europe 2020 strategy include 75% of people aged 20-64 to be in work and at least 20 million fewer people to be in or at risk of poverty and social exclusion. However, there is still an employment gap among EU citizens and non-EU citizens which was estimated in 14.80 percentage points for 2017 (Eurostat, 2018). Moreover, the unemployment rate of immigrants in the EU28 in 2018 is estimated at 15.2% contrary to the 7.3% of the EU citizens.

The European Union has adopted the EU Action Plan on the Integration of Third-Country Nationals which specifically refers to the importance of successful labor market integration: "timely and full labor market integration can also help to meet the growing needs for specific skills in the EU as well as to enhance the sustainability of the welfare systems against the background of an aging population and workforce" (European Commission, 2016, par. 4.1.3). However, 26.412.000 immigrants out of the 322.609.000, which is the estimated population from 15 to 74 years old of non-EU nationals in the EU-28 in 2018, are unemployed. Furthermore, the migration crisis that followed the Syrian civil war has pushed new migration flows towards the European Union since 2014 through the Mediterranean Sea and land routes and particularly through Spain, Italy, Greece, Cyprus, and Malta. The arrivals are estimated according to UNHCR data in 1.958.126 immigrants, refugees, and asylum seekers. These migration inflows though happened after the Eurozone debt crisis had affected deeply the European labor markets (Lane, 2012). The unemployment rate in the EU-28 in 2013 reached 12,4% for EU nationals and 22,3% for immigrants while in some member states like Greece, it amounted to 27,5%. As a result, the field of immigrants' integration in the European societies and specifically the perceptions over this new migrant influx became polarizing.

The purpose of this paper is to provide an evaluation on the effectiveness of the labor market integration policies using the PROMETHEE method, which is a multi-criteria decision analysis method, comparing the gaps between the native and the immigrant population in the Zaragoza indicators for employment, as well as the immigrants' employment indicators among the EU 28 member states. For the purpose of this paper, the use of the word "immigrants" receives its EU context as third-country nationals, establishing their usual residence in the territory of a Member State for different purposes, including humanitarian ones. Specifically, the criterion of citizenship is used to distinguish between immigrants and natives in each member state of the EU-28. The rest of the paper is divided in seven sections. First, a short overview of the importance of integration, the challenges and the appropriate policies to face the challenges of the integration process are presented. Next, the indicators for measuring the integration outcomes are described. A brief introduction into the PROMETHEE method and our case study follows. The results and their sensitivity are analyzed in the last sections and the conclusion wraps up the analysis.

THE INTEGRATION PROCESS

Integration is a multifaceted three-way process among immigrants, their host countries and the countries of their origin that involves social, political, cultural and economic aspects of life (Garces-Mascarenas & Penninx, 2016). The successful labor market integration of immigrants in their host country is the optimum response towards immigration. After all, labor mobility favors an optimal allocation of resources and leads to higher and more qualitative output and welfare (Zimmermann, 2016). The impact of immigration on the host country's labor market depends on several policies that affect the slope of the labor demand and supply curve. Nevertheless, apart from the policies, it is also the characteristics of the immigrant population and their similarities and differences with the natives that could alter the outcome of immigration on the labor market of the host country (Jean et al., 2010). Labor market integration affects all kinds of immigrants. Employment is essential for them because it increases their self-sufficiency and their socio-economic participation, their standard

of living, their interactions with the natives and the overall outcome of their inclusion in the host society (OECD, 2018).

The host countries of immigrants have to deal with several challenges in their efforts to implement and succeed in their integration policies. Economic, educational, social and structural barriers complicate and delay the integration process. Indicatively, the housing shortages, the low labor demand, the poor funding and the lack of incentives for employers to hire new immigrant employees are some of the most common economic challenges in the field of integration. The knowledge of the language of the host country, the low skills levels of the immigrants or the lack of the appropriate documentation to recognize their skills is usually referred as educational difficulties in immigrants' labor market integration. Discrimination, racism, lack of social networks and inadequate living conditions constitute the social barriers that have to be dealt with, while from a structural point of view, the vague rules of participation in the labor market along with the lack of coordination among the authorities and the differences in the social security benefits among the EU member states complicate further the sensitive issue of immigrants' integration.

Towards addressing the aforementioned barriers and proceeding with their integration policies, EU Member States have adopted three kinds of approaches (European Migration Network, 2019): the mainstream approach, the individualized approach and the hybrid one. In such a framework, economic policy measures such as the social clauses in the public procurement, the temporary agency employment, the promotion of entrepreneurship and the job matching have been identified to enhance the labor market integration outcomes. Educational approaches like language learning, the qualification programs, the vocational education, the bridging courses, and the ethics education have been proposed to ease the educational difficulties of the new immigrant employees. Additionally, anti-discrimination practices, the mapping of immigrants' skills, access to social services and the career's orientation are social policy initiatives that could ameliorate the integration process. Last but not least, structural reforms that could reduce the time to ensure legal status and clarify the legal rights to employment are necessary steps to achieve the intended labor market integration outcomes.

Zaragoza Indicators for Integration

EU integration indicators are useful towards understanding the national contexts of EU Member States' labor market integration policies and make it easier to compare and contrast them as well as explain their differences. An effective labor market integration entails the convergence between immigrants' and natives' indicators.

The Zaragoza Declaration was adopted in April 2010 and approved at the Justice and Home Affairs Council on 3-4 June 2010. In the general idea of the Zaragoza Declaration, there is an effort to promote the development of strategies for progress and social cohesion in the European member states. The implementation of such strategies in the short and in the long term is a necessary step towards this direction, which creates a transversal and inclusive approach to integration.

As it is presented in Table 1, there are five areas of interest an integration policy focuses on, which are necessary towards strengthening the social and economic cohesion of a country. According to the Zaragoza Declaration, the most appropriate indicators with regard to the employment priority area and as such labor market integration of immigrants in their destination country are the employment rate, the unemployment rate, the activity rate as well as the self-employment and over-qualification indicators.

The employment rate is the percentage of employed people compared to the working-age population. It is the most important indicator to monitor the EU 2020 strategy employment target. The employed people include the population who had any work for profit or had a job even if they were absent from it. Although this paper does not refer to gender differences but rather the gap between the native and the immigrant population, it should be mentioned that according to Eurostat (2019) there is also a gender gap between the employment rates of men and women in almost all the EU member states. The largest difference between the employment rate of the native and the immigrant

Table 1. List of Zaragoza indicators

Employment	Education	Social Inclusion	Active Citizenship	Welcoming Society
Employment rate	Highest educational attainment	At-risk-of-poverty (and social exclusion)	Naturalization rate	Perceived experience of discrimination (survey)
Unemployment rate	Tertiary attainment	Income	Share of long-term residence	Trust in public institutions (survey)
Activity rate	Early school leaving	Self-reported health status (controlling for age)	Share of elected representatives (research)	Sense of belonging (survey)
Self-employment	Low-achievers (PISA)	Property ownership	Voter turnout (research)	
Over-qualification	Language skills of non-native speakers (LFS module)			

Source: (Council of the European Union, 2010).

population in 2018 was found in Greece, where the gaps in the labor market indicators between the natives and the immigrants aggravated after the debt crisis.

The unemployment rate refers to the percentage of the labor force that is unemployed during the reference year. The differences between the unemployment rate of the native-born population and the third-country nationals in the EU were relatively small before the global financial crisis, but the gap widened following the economic shock. The lowest unemployment rates with regard to third-country nationals in 2018 were recorded in Czechia (Czech Republic), in Malta, and in the UK, while Greece had the highest, followed by Spain, Sweden, France, and Finland.

The activity rate is an indication of the economically active people compared to the total population. According to Eurostat (2019), between 2008 and 2017, third-country nationals presented lower activity rates than their EU-born peers, but in 2019 this trend seems to change. Netherlands, Latvia, Germany, Denmark, and France belong to the countries with the largest gaps in the activity rates between natives and immigrants, while there are also countries like Slovakia, Czechia, Romania and Greece that had higher activity rates for the foreign-born population than for natives.

The self-employment rate includes the sole or joint owners of the unincorporated enterprises, the unpaid family workers, the outworkers who work outside their usual workplace and workers engaged in production done entirely for their own capital formation. The share of self-employed native-born people in the EU-28 has declined between 2008 and 2018. For the foreign-born population although an increase in self-employment has been observed until 2016 when it also turned downwards.

Over-qualification refers to the situation in which a person has tertiary education and works in low or medium-skilled jobs. The over-qualification rate is usually high among the immigrants and there are regions where the lowest level of migrants' over-qualification surpasses the highest level of the natives' over-qualification leading to immigrants' lower labor productivity and worsening the region's economic development (OECD, 2018).

THE PROMETHEE METHOD

The multi-criteria analysis method PROMETHEE is one of the methods that belong to the outranking family, like the ELECTREE method. Its acronym is formed by the words Preference Ranking Organization METHod for Enriched Evaluation. The decision maker, using PROMETHEE, will end up with a final ranking of the selected alternatives, which will be based on the computation of

preference degrees, and he/she will have a single choice or a choice over alternatives as to the best solution of the set group of alternatives and their preference degrees.

In 1982, Jean-Pierre Brans developed the PROMETHEE I (partial ranking) and PROMETHEE II (global ranking). A few years later, in 1995, Jean-Pierre Brans and Bertrand Mareschal developed PROMETHEE III and PROMETHEE VI, introducing a parallel presentation of the GAIA module, a visual interactive tool that offers a graphical presentation of each model and its results. There are also other additional extensions of PROMETHEE that have been developed over the years, see for example the publications of Brans and Mareschal (1994, 2005). Except for those extensions, there are many publications, which use PROMETHEE in order to process a problem (Brans et al., 1986; Vicke and Brans, 1985; D'Avignon and Mareschal, 1989; Briggs et al., 1990; Behzadian et al., 2010). A report from June of 2018 by Mareschal states that the total number of PROMETHEE's references are 1827 papers (Mareschal, 2018). Their application areas are among others environment management, services and public applications, industrial applications, energy and water management, economics and transportation problems.

The procedure of the PROMETHEE method consists of several steps that calculate the final ranking of the selected alternatives. Firstly, the decision maker will construct the table of the decision matrix, integrating all the information about the alternatives, criteria, preference parameters and weights. Then he/she proceeds with the calculation of the differences between the actions' evaluations for each criterion, and the pairwise comparison matrix for each criterion is constructed. Subsequently, the method calculates the unicriterion net flows, where the methodology measures which action is more preferred over all the other actions with positive, negative and net flows, where the positive and negative flows have respectively values between 0 and 1, and -1 and 0, and they express how an action is preferred or not over all other action on a specific criterion. While, in unicriterion net flows, the values are between -1 and 1, and they are calculated by subtracting the negative flows from the positive flows. Afterward, it calculates the weighted unicriterion flows, and finally, the global preference net flows. In the end, the result is the ranking of the actions according to PROMETHEE I and II. (Brans, 1982; Brans & Mareschal 1994; 2005)

The decision maker can use qualitative and quantitative criteria. Furthermore, the PROMETHEE method requires as inputs the weights of the selected criteria and the preference function's type. For the latter, the decision maker has to choose between Usual, U-shape, V-shape, Level, Linear and Gaussian, and depending on the type he/she chooses, the appropriate thresholds must be selected. For instance, the Linear function, which will be used in the following case study, requires an indifference threshold q and a preference threshold p . Specifically, when the difference between a criterion's evaluations is less than the selected threshold of indifference q , then there is not perceived a discrepancy between these two actions for the preferences of the decision-maker. In the opposite case, when the difference is higher than the preference threshold p , then the preference is strong (Brans & Mareschal, 2005).

CASE STUDY

For the purpose of this paper, the authors make use of the aforementioned indicators for the decade between 2008 and 2017 except the over-qualification rate for which there are no longitudinal data available. Specifically, statistical data available from the Eurostat database have been used for the non-EU population in each member state of the EU-28. Moreover, the gaps in each indicator between the native population and the non-EU population have been included in the analysis so as the ultimate target of immigrants' labor market integration along with an effective social inclusion to be examined.

The Visual PROMETHEE, a freely available software, will be used in order to process the selected data. The model consists of the 28 EU countries as alternatives, and there are eight criteria:

1. Activity rates
2. Employment rates

Table 2. PROMETHEE Preferences

Preferences	2008 to 2017							
	Activity rates	Employment rates	Self-employment	Unemployment rates	GAP_Activity rates	GAP_Employment rates	GAP_Self-employment	GAP_Unemployment rates
min/max	max	max	max	min	min	min	min	min
Weight	0,12	0,12	0,12	0,12	0,13	0,13	0,13	0,13
Preferences function	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear
thresholds	absolute	absolute	absolute	absolute	absolute	absolute	absolute	absolute
Q: Indifference	3	3	5000	3	3	3	5000	3
P: Preference	10	10	10000	10	10	10	10000	10

3. Self-employment
4. Unemployment rates
5. The gap in activity rates
6. The gap in employment rates
7. The gap in self-employment
8. The gap in unemployment rates

At the following table, there is all the selected information for the model that has been constructed for the case study.

The first three criteria need to be maximized, while all the other criteria need to be minimized. Especially for the gaps, they need to be minimized in order to minimize the difference in each indicator between the locals and the immigrants. All the criteria are quantitative. The weights of all the criteria are almost equal because there is no question of preference among the criteria. The type of the function than it has been chosen is linear, thus an indifference threshold Q and a preference threshold P for each criterion has been chosen according to the values of the data. In the next table, there are ten rankings of the 28 EU countries for the selected years.

Results Analysis

Starting the analysis with the Mediterranean countries, it should be mentioned that the model of migration in Southern Europe was mainly characterized by labor and family migration, illegality and frequent amnesties. Italy was the first Mediterranean country to adopt an integration policy in the late nineties followed by Spain, Greece, and Portugal in the early 2000s in which a labor-oriented approach and an economic conception of migration were obvious contrary to the North-Western humanitarian oriented policies (Doomernik & Bruquetas-Callejo, 2016). This approach upgrades the importance of the labor market integration for effective social inclusion of immigrants.

It can easily be concluded in Table 2 that Greece's position in the ranking has worsened after the economic crisis the country experienced. Greece used to achieve the first place during 2009 and 2010 in the EU-28 labor market integration indicators' ranking portraying effectiveness in narrowing the gaps between the immigrant and the native population in its labor market. At the peak of the crisis, in 2013 though, Greece fell in the 17th position. From 2008 to 2015, the country's GDP dropped by 23% and the unemployment rate reached a peak of 27.5%. The number of immigrants working in manufacturing and households dropped by 50%. The numbers of those working in commerce, agriculture, and the hospitality and food businesses had less change and the greater decline happened in the number of the construction workers which dropped dramatically from 110.500 to 24.500 (-78%!).

Table 3. PROMETHEE results

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Hungary	Greece	Greece	Cyprus	Malta	Malta	Cyprus	Slovakia	Malta	Malta
Estonia	Portugal	Cyprus	Malta	Cyprus	Czechia	Hungary	Czechia	Slovenia	Czechia
Lithuania	Estonia	Portugal	Czechia	Czechia	Cyprus	Lithuania	Cyprus	Estonia	Estonia
Portugal	Cyprus	Czechia	Estonia	Lithuania	Lithuania	Czechia	Malta	Italy	Romania
Greece	Czechia	Malta	Slovenia	Estonia	Estonia	Malta	Lithuania	Lithuania	Slovenia
Cyprus	Hungary	Estonia	Portugal	Romania	Luxembourg	Estonia	Slovenia	Portugal	Portugal
Czechia	Poland	Italy	Poland	Slovenia	Hungary	Latvia	Hungary	Czechia	Poland
Latvia	Italy	Spain	Italy	Poland	Slovenia	Italy	Estonia	Latvia	Latvia
Italy	Malta	Lithuania	Greece	Italy	Portugal	Poland	Latvia	Cyprus	Lithuania
Spain	Romania	Romania	Spain	Slovakia	Italy	Portugal	Greece	Spain	Slovakia
Ireland	Latvia	Luxembourg	Latvia	Latvia	Latvia	Greece	Spain	Greece	Italy
Slovenia	Spain	Slovenia	Slovakia	Luxembourg	Spain	Spain	Portugal	Slovakia	Cyprus
Slovakia	Slovakia	Latvia	Romania	Portugal	Romania	Luxembourg	Luxembourg	Denmark	Greece
Poland	Luxembourg	Poland	Luxembourg	Bulgaria	Slovakia	Romania	Romania	Ireland	Spain
Romania	Ireland	Slovakia	Bulgaria	Hungary	Poland	Slovakia	Italy	Hungary	Luxembourg
Malta	United Kingdom	United Kingdom	Lithuania	Spain	Germany	Slovenia	Bulgaria	Luxembourg	Ireland
United Kingdom	Denmark	Ireland	United Kingdom	Greece	Greece	United Kingdom	Poland	Poland	Hungary
Bulgaria	Lithuania	Austria	Hungary	Austria	United Kingdom	Bulgaria	Ireland	Romania	Denmark
Austria	Austria	Hungary	Ireland	United Kingdom	Ireland	Ireland	Austria	United Kingdom	United Kingdom
Croatia	Slovenia	Denmark	Austria	Ireland	Denmark	Denmark	Denmark	Austria	Austria
Denmark	Finland	Netherlands	Denmark	Germany	Austria	Austria	Sweden	Sweden	Sweden
Finland	Germany	France	Netherlands	Denmark	Finland	Germany	United Kingdom	Bulgaria	Germany
France	France	Finland	France	Netherlands	Bulgaria	Sweden	Germany	Germany	Bulgaria
Luxembourg	Netherlands	Germany	Finland	Finland	France	France	Netherlands	France	France
Sweden	Sweden	Sweden	Sweden	France	Sweden	Finland	Belgium	Netherlands	Finland
Germany	Bulgaria	Bulgaria	Germany	Sweden	Netherlands	Netherlands	Finland	Belgium	Netherlands
Netherlands	Belgium	Belgium	Croatia	Belgium	Croatia	Belgium	France	Finland	Belgium

Most male immigrants used to concentrate on the construction sector in Greece and their households were destabilized by the crisis, which forced them to change the sector of employment. Albanian immigrants for example, who consist more than half of the immigrant population in Greece, since their first entrance and up to the crisis had improved their employment status. They used to receive higher salaries, they had increased their savings and their remittances to Albania and they used to consider staying in Greece permanently (Nikas & Aspasios, 2011). Nevertheless, the crisis increased the inter-sector mobility of Albanian employees, affected the transfers of remittances to Albania and provoked thoughts for repatriation (Aspasios et al., 2014).

Italy, Spain, and Portugal, at a point, also increased their demand for labor, especially in low-skilled sectors that natives rejected and saw the informal sector of their economies expanding. Their places in the ranking are above average, having some backs and forths during the decade examined, due probably to the economic problems they faced. In fact, a typical example of immigrants' labor market integration in Italy is that the immigrants' share in the country's total employment exceeds their

share in the country's total population (Bontenbal & Lillie, 2019). With regard to Spain, immigration policies are open and committed to integration following the public perception that immigration has been positive for economic growth (Arango, 2013).

The Mediterranean islands of Cyprus and Malta keep some of the top places in the ranking. Cyprus though, aggravated its position after 2016, probably due to the high number of asylum seekers and beneficiaries of international protection the island received after the outburst of the migration crisis. As far as the Visegrad countries are concerned, Czechia has increased its demand for foreign labor since 2013 and has shifted its integration policy towards the civic model since 2006 (Drbohlav & Janurová, 2019). By applying smart, active and systematic migration policies, Czechia is a pioneer in Central Europe. Hungary and Poland are less exposed to immigration inflows, but they do not seem to excel in their integration policies. Slovakia, which also adopted a negative stance towards the relocation of refugees based on the system of quotas along with the other Visegrad countries, has a small number of immigrants compared to its total population and most of them are EU-born. However, Slovakia's place in the ranking is an average one.

The Baltic countries receive a satisfying score even though they have strict and conservative policies to protect their national labor markets. It should be mentioned that the net migration rate is positive only in Estonia, while Latvia and Lithuania are emigration countries and the majority of the immigrants in these countries come from the CIS countries with which they share a common history. As a result, the difficulties of integration are reasoned.

The Nordic countries, which are traditional destinations for immigrants and have implemented various good integration practices, present adverse integration outcomes. Hence, the differences in the employment indicators between the foreign population and the natives remain wide, revealing that apart from the policies, there are also several other elements that affect the effectiveness of immigrants' integration.

France and Germany, two of the oldest European immigrant destinations with the longest integration strategies, have not been able to narrow the gaps between the native and the immigrant population and succeed in the desired target of immigrants' social inclusion either. Netherlands' vision on integration puts the responsibility of integration on the immigrants, but the outcomes according to the ranking do not seem to be rewarding either. When it comes to the UK, where bottom-up initiatives are encouraged in the integration process and to Austria, there is also a below-average consistent score between 2008 and 2017.

Last but not least, Romania seems to achieve higher scores than Bulgaria and Croatia which receive the lowest scores among the EU-28. The only country that competes with Croatia for the last position of the EU-28 labor market integration ranking is Belgium. This is probably attributable to the structural characteristics of the Belgian labor market. There are no longitudinal data available for the over-qualification rate as it was mentioned above. However, it is expected that the results would be further enforced by the use of this extra indicator.

Sensitivity Analysis

A sensitivity analysis of the weights is always an interesting and useful tool, and in this way, the decision maker can examine how robust is the given solution. Thus, if the intervals of all the criteria are particularly limited, then the given solution is quite sensitive to change. On the other hand, when the intervals are wide, the solution is characterized by robustness. In the case that the given solution is too sensitive to small changes, the decision maker could consider the selected model and he/she can reconstruct it in a more robust way, so the following given final ranking will be more stable.

In Table 4, there all the intervals for the eight criteria for the ten selected years, from 2008 to 2017. It is clear that the limits above the intervals are too strict, and the given solution is not characterized by robustness. This may happen due to the fairly close values of the data entered into the model. In any case, the sensitivity analysis should be taken into account for the flexibility of all the final rankings. For the purpose of this paper, the sensitivity of the results is to be expected, but it does not play a

Table 4. Sensitivity analysis

Sensitivity analysis	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Activity Rates	[11,33%, 13,33%]	[11,35%, 12,41%]	[11,87%, 12,28%]	[11,30%, 12,90%]	[11,96%, 12,26%]	[10,91%, 12,75%]	[10,28%, 12,78%]	[7,13, 15,27%]	[11,81%, 12,82%]	[11,64%, 13,93%]
Employ-ment rates	[10,52%, 13,04%]	[11,44%, 12,89%]	[11,70%, 12,14%]	[10,92%, 12,68%]	[11,54%, 12,04%]	[11,01%, 13,07%]	[11,30%, 12,73%]	[10,20%, 14,80%]	[11,82%, 12,07%]	[11,81%, 13,84%]
Self-employment	[11,39%, 12,32%]	[10,45%, 12,09%]	[11,10%, 12,59%]	[11,75%, 12,17%]	[11,97%, 12,32%]	[11,55%, 12,79%]	[11,77%, 12,64%]	[11,49%, 13,34%]	[11,45%, 12,45%]	[11,75%, 12,23%]
Unemployment rates	[11,36%, 13,81%]	[11,62%, 12,39%]	[11,86%, 12,07%]	[11,50%, 12,38%]	[11,51%, 12,08%]	[11,40%, 12,80%]	[11,27%, 13,20%]	[10,37%, 13,29%]	[11,96%, 12,16%]	[10,99%, 12,40%]
GAP_Activity Rates	[12,19%, 15,04%]	[11,71%, 13,33%]	[11,19%, 13,07%]	[12,17%, 13,43%]	[12,62%, 13,45%]	[12,11%, 13,35%]	[11,74%, 14,32%]	[12,22%, 16,14%]	[12,64%, 13,26%]	[11,78%, 13,33%]
GAP_Employment rates	[12,28%, 14,34%]	[11,57%, 14,44%]	[12,97%, 15,07%]	[12,03%, 13,34%]	[12,87%, 13,02%]	[11,62%, 13,55%]	[10,42%, 13,69%]	[12,23%, 14,43%]	[12,73%, 13,08%]	[11,70%, 13,58%]
GAP_Self- employment	[12,65%, 13,25%]	[12,94%, 14,06%]	[12,04%, 13,74%]	[12,93%, 13,22%]	[12,86%, 13,09%]	[12,76%, 13,35%]	[11,56%, 13,90%]	[11,77%, 13,28%]	[12,96%, 13,16%]	[12,85%, 13,21%]
GAP_ Unemployment rates	[11,76%, 13,99%]	[12,41%, 13,19%]	[11,18%, 13,25%]	[12,54%, 13,61%]	[12,21%, 13,29%]	[12,01%, 14,93%]	[12,36%, 13,65%]	[11,97%, 13,52%]	[12,04%, 13,05%]	[10,93%, 13,34%]

negative role in the given rankings, as the selected model could not be formulated in a different way. Presumably, an interesting idea would be to use different weights, in order to focus more on selected criteria, and then to examine how each ranking and the model's robustness of the solution will react.

CONCLUSION

In a period of an escalating public debate on the management of migration and the direction as well as the effectiveness of integration policies, this paper uses the multi-criteria decision analysis method PROMETHEE to evaluate the integration outcomes of the 28 member states of the European Union over the decade 2008-2017. The results of the empirical analysis provide with an interesting ranking of the EU-28 integration indicators for employment.

Although the Nordic or some Central European countries seem to implement an innovative labor market integration policy, the outcomes as regards the employment, unemployment, activity and self-employment indicators of immigrants in these countries as well as the gaps in the aforementioned indicators between the immigrants and the natives seem adverse. On the other hand, the Mediterranean countries, dealing with various economic problems, used to include the immigrant population in their societies quite successfully until the peak of the recession. This positive observation could stimulate a more targeted integration policy that could benefit from the various examples of good practices to enforce its outcomes.

Considering the above, the results of the above model are quite interesting, and some rankings changed in an unexpected way. Of course, the model is represents only a specific point of view in time and space of the selected subject and it can potentially be examined in many other ways. For further examination and future works, a researcher could for example, among other options, combine a variety of other weights and preference functions and even criteria and alternatives in order to study alternative groups of countries with similar characteristics.

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