Entrepreneurial opportunity recognition: a bibliometric overview and clustering analysis

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Abstract

Purpose – Entrepreneurship is the driving force of countries for sustainable economic development. The importance of this issue is to the extent that in recent years, countries have made great efforts to develop their entrepreneurial ecosystem. But the starting point for entrepreneurship is when an opportunity is identified and the entrepreneur rises to use it. Accordingly, opportunity recognition will be the foundation of entrepreneurship and ultimately sustainable development. Given the importance of this topic, this paper attempts to provide a large picture of the studies conducted in this field.

Design/methodology/approach – Given the importance of this topic, this paper attempts to provide a large picture of the studies conducted in this field by reviewing 868 articles published on the Web of Science database in the field of opportunity recognition. Accordingly, using statistical descriptions of articles, analyzing the communication network among elements such as authors, countries, institutions, keyword analysis in articles and examining their trends over time, identifying the most important articles using co-citation analysis and finally this macroimage has been mapped, clustered and identified in leading articles in the last decade by co-citation clustering.

Findings – The results of the clustering show that the five main clusters of recent decades have included entrepreneurial characteristics and opportunity recognition, macroeconomic opportunity recognition cluster (community and impact on economic development of the country), opportunity recognition process cluster, opportunity recognition cluster in serial and intra-entrepreneurship and opportunity recognition cluster in new venture internationalization.

Originality/value – Using a bibliometric analysis and co-citation analysis in the field of opportunity recognition and making a big picture of studies in this field of study is a contribution that can be used for future studies and researchers and managers in this field.

Keywords Opportunity recognition, Opportunity identification, Entrepreneurship, New venture creation, Co-citation clustering

Paper type Research paper

1. Introduction

According to Shane (2003), entrepreneurship is an activity created by identifying, evaluating and exploiting opportunities to introduce new product or service, organizational methods, markets, processes and new raw materials that did not exist in the past (Shane, 2003). As is evident in the definition of entrepreneurship, one of its key elements is opportunity. The concept of entrepreneurial opportunity is an umbrella that encompasses a wide range of activities to create new business (Wood, 2017). Entrepreneurial opportunity as a “Fundamental Concept” was first introduced in entrepreneurship research by Shane and Venkataraman in 2000 (Wood, 2017; Short et al., 2010a). Gregor et al. (2010) consider opportunity as a planned approach for activities to provide a new or better supply–demand combination as well as a solution to reduce the supply and demand market imbalances (Song et al., 2017; Can and Korkmaz, 2020). In other words, entrepreneurial opportunity is an activity whereby entrepreneurs come up with new ideas, new products and services (Foo et al., 2015).

The number of published studies in the field of opportunity recognition is increasing and has reached its peak in the last (Angelsberger et al., 2017). According to a trend analysis conducted by Busenitz et al. (2014), this trend will increase in the future and will soon
become the most important issue in the field of entrepreneurship (Busenitz et al., 2014). Even today, this issue is considered as the core of the entrepreneurial process (Angelsberger et al., 2017; George et al., 2016). Opportunity recognition is always influenced by several factors (Ardichvili et al., 2003). Some of the most important factors include social capital, personality traits, knowledge of the environment, entrepreneurial alertness, systematic search, prior knowledge of individuals and many other such factors (George et al., 2016; Shane, 2003).

In 2011, Hansen et al., by studying 56 articles in the field of opportunity recognition, indicate that opportunity recognition is defined by different researchers from different perspectives and there is no agreement between these perspectives (Hansen et al., 2011). Davidsson argues that experts in the field of opportunity recognition do not have the same ideas about the definition of this concept, and each of them looks at the issue from a different perspective. Some of them look at the issue from an individual perspective and others from an environmental perspective, and each has its own definitions (Davidsson, 2015). There are generally two categories of definitions for opportunity recognition in the literature. The first category is known as the Schumpeterian opportunity (Schumpeter and Nichol, 1934) and the second is the Kirznerian opportunity (Kirzner, 1973). The first category is known as innovation opportunity, and the second category is called arbitrage opportunity.

Research shows that there are generally four types of entrepreneurial opportunities. These four categories have been used in much research:

1. Bricolage: By using existing resources to create new value (Baker and Nelson, 2005; Garud and Karnøe, 2003).
2. Effectuation: Create a new combination using a set of possible tools with non-predictive control (Sarasvathy, 2001; Sarasvathy and Dew, 2005).
3. Improvisation: A conscious and fundamental integration of the design and implementation of a new product (Miner et al., 2001; Crossan et al., 2005).
4. Causation: Selecting between means to create an effect with predictive control (Sarasvathy, 2001).

One of the important points in the entrepreneurship literature is to address the possibility that opportunities are discovered or created (Maine et al., 2015). Opportunity recognition theory assumes that vigilant entrepreneurs identify and exploit flaws in the market (Shane and Venkataraman, 2000). Some researchers agree that “opportunity, such as a mountain, exists as a real and objective phenomenon and is just waiting to be discovered and exploited” (Alvarez and Barney, 2007). In order to create this theory, the entrepreneur’s goal is to discover new opportunities, earlier than others and precise to create specific value as well as to create a new business (Shane, 2003; Kirzner, 1997). Opportunity creation theory assumes that the entrepreneurial tool or marketing plan is independent of the entrepreneur’s actions (Sarasvathy, 2001; Gartner, 1988; Alvarez and Barney, 2007). In fact, they believe that market opportunities do not exist objectively but must be created (Maine et al., 2015). Given the distinction between these two perspectives, the focus of the present study is to explore and identify opportunities.

As stated, opportunity recognition is one of the key elements in entrepreneurship and is of particular importance (Shane and Venkataraman, 2000; Dimov, 2007). Opportunity recognition is a process that begins with the idea of the entrepreneur; and in this process, the idea is evaluated and validated. This process continues under uncertainty and with the risk-taking entrepreneur (Khalid and Sekiguchi, 2018; Haynie et al., 2009). Overall it can be stated that the true spirit of opportunity recognition is in understanding the needs and wants of customers in the form of demand (Prandelli et al., 2016). Shepherd et al. have argued that opportunity
recognition is a process for fully understanding the economic environment and its needs that entrepreneurial decision-making is only a small part of it (Shepherd et al., 2015). Ozgen and Baron also believe that opportunity recognition is a set of activities that an entrepreneur does in seeking and identifying opportunities (Ozgen and Baron, 2007). In another study, Baron identifies opportunity recognition as a cognitive process through which individuals have identified an opportunity (Baron, 2006). Ozgen and Baron have similarly stated that opportunity recognition reflects the steps an entrepreneur takes to identify opportunities (Ozgen and Baron, 2007). Summing up the definitions provided by the researchers, it can be generally stated that opportunity recognition is a process (Shane, 2003; Kirzner, 1997) that goes by the entrepreneur in uncertain terms and is the central core of entrepreneurial activity (Song et al., 2017). Opportunity recognition involves several steps, including identifying market needs, evaluating opportunities and entrepreneurial decision-making that may occur prior to the pre-startup, startup or business growth phase (Song et al., 2017).

The necessity of dealing with the field of opportunity recognition and some of the most important articles in this field that are somehow underlying this field is fully explained in this section. The rising trend in the number of articles published in this field is another sign of the importance of addressing this issue. Accordingly, this study has attempted to provide a large picture of these articles by focusing on published articles in this field and using new methods of systematic analysis and review. For this purpose, bibliometric analysis and co-citation clustering, which is one of the new and widely used methods in the analysis of scientific fields and mapping of scientific maps, has been used. The contribution of this research is, using a new systematic literature review method using network analysis and a clustering method as a method of datamining in field of entrepreneurship. Also, this research makes a big picture of studies in the field of opportunity recognition and cluster, all of researches in five prominent clusters.

In the following, the research methodology and data are fully described and then in the third section, six layers of analysis of articles including distribution of research disciplines, authors of core articles, countries of articles’ origin, research organizations, themes and fields of entrepreneurial ecosystem and top clusters of entrepreneurial environment research in the past decade are presented. Finally, in the final section, the research path, the results of this research and suggestions for future research are outlined.

2. Material and methods
2.1 Data collection
This research is designed to create a big picture of all the researches in the field of opportunity recognition. For this purpose, the Web of Science citation database was used to extract all valid published articles. To this end, the appropriate query is set for the February 1, 2020, article search, which incorporates opportunity recognition keywords such as opportunity recognition, opportunity identification, entrepreneurship and innovation.

The total of documentation identified in this query contains 1,194 items, which after finalizing articles indexed under two categories Science Citation Index Expanded (SCI-E) and Social Sciences Citation Index (SSCI), reached the final output of 868. These include 786 articles, 71 reviews, 20 proceeding papers and 1 book chapter. The first article published in this dataset is from 1991, and the largest number of published articles is from 2019, which is 121 articles. The upward trend in the number of articles in this field is quite evident and this growth rate has increased dramatically in the last two years. The largest number of published articles is related to the Journal of Business Venturing, which has 51 articles. The US is also the leader in this field with 356 articles. The following table shows the most prolific journals in this field (see Table 1).

Similarly, prolific writers in this field are also presented in the following table (see Table 2). Further, more detailed and sophisticated analysis of all these elements are provided.
2.2 Bibliometric analysis

Bibliometric analysis as one of the statistical research methods was first introduced in 1990. There have been many applications to this method since then and other words such as Statistical Bibliography and SCIENSOMETRICS have been used (Osareh, 1996). In 1988, Potter divided this type of analysis into two categories. The first category is descriptive statistics, which include the amount of literature from a geographical perspective, authors, journals, years of publication and different fields. The second category, which requires further analysis, concerns the use of literature for the citation analysis (Potter, 1988), this method is based on references. Reference refers to the cases in which one article refers to another article, but citation refers to the cases in which one article is cited. Citation analysis does not mean simply referencing articles, but simultaneous analysis of citing and cited articles (Smith, 1981; Osareh, 1996). It is usually defined as the degree of relationship power between authors, based on the number of citations an author makes to another one. The same logic is used to measure the extent of communication power between countries, journals and articles (Osareh, 1996). Generally, citation analysis is defined as the analysis of the relationships between countries, authors and articles based on the extent of their citation (Diodato and Gellatly, 2013). Garfield noted in an article that citation analysis is used to show the progress of research (Garfield, 1983). Citation analysis has various types that can be defined such as direct citations (cited a new article by an older article), bibliographic coupling (relationship between articles) and co-citation coupling (relationship between documents cited) (Osareh, 1996). Bibliometric analysis as one of the most applicable statistical research methods has been used in numerous articles (Wu et al., 2020; Shang et al., 2020; Ekanayake et al., 2019). Bibliometric analysis is also used in this paper to analyze articles in the field of opportunity recognition. For this purpose, first, the articles are analyzed using descriptive statistics and then the keywords and their citations are analyzed. Finally, the reviewed articles are clustered and the obtained clusters are also described.

This methodology has been used before for too many goals, such as supply chain (Xu et al., 2018), sustainability and financial performance of small and medium sized enterprises (Bartolacci et al., 2020), big data and dynamic capabilities (Rialti et al., 2019), inclusive innovation (Mortazavi et al., 2021) and too many other areas.
Number of papers in field of entrepreneurship and innovation management by bibliometric and clustering analysis is very low and need to expand, but other methods of systematic literature review, used too many times. For this reason, bibliometric analysis and clustering method has been used as a contribution for this research.

2.3 Paths of analysis
In this study, three types of analysis are generally used, including network analysis, keyword analysis and article clustering (Wu et al., 2020). Network analysis is about analysis of the number of articles published, active countries, authors’ collaboration networks, countries’ collaboration networks, organizations’ collaboration networks and more. Co-occurrence analysis and time zone chart of keywords include keyword analysis and the process of changing these keywords over time. The logic of the analysis at this stage is text mining. Clustering by co-citation clustering is including co-cited clustering core papers. In this way, the grid is drawn between the cited articles and the clusters of articles are separated based on the similarity of these articles based on the words used in their title, abstract and vocabulary. In order to identify the leading articles in this research, articles published in the last ten years have been used for analysis. After identifying the clusters in this method, the text of articles related to each cluster is studied and after analyzing the content, the description of each cluster and its main articles is analyzed and described.

3. Results and discussion
3.1 Publication trend
In this article, according to the purpose of the study, a total of 868 articles have been presented since 1991. The trend of article publishing in this area has been upward and the growth rate of this chart has grown substantially since 2015, reaching its highest level in 2019, reaching 121 articles. The number of articles published in 2020 is only 18. Given that the survey data were extracted on February 1, it is reasonable to underestimate it, as only 2 months have passed since 2020. The figure below illustrates this trend and the number of articles per year (see Figure 1).

![Trend of published papers](image-url)
3.2 Distribution of research disciplines

In this section, the research disciplines map in the field of opportunity recognition is examined. To draw this map, the measure of betweenness-centrality among the disciplines is used. A total of 58 nodes ($n$) and 184 edges ($e$) have been identified in this analysis. The highest index of betweenness-centrality was in business and economics (0.76) and occupied 581 articles. Then engineering (0.25), healthcare sciences and services (0.22), management (0.18), psychology (0.12) and science and technology, other topics (0.11) are more than 0.1 centralized. Other categories have a centrality of less than 0.1. The largest number of articles were in business and economics (581), business (412), management (379), engineering (86), environmental sciences and ecology (58) and economics (56), respectively, with more than 50 articles in themselves. The following figure shows the map derived from these categories (see Figure 2).

3.3 Authors of core articles

The authors’ communication network was a total of 57 authors and 32 communication paths between them. Among these authors’ network, 5 authors have more than 4 articles, most with ROBERT A BARON with 7 articles. Other authors with the most articles include THOMAS LANS (6), MIKE WRIGHT (6), DEAN A SHEPHERD (6) and ANDREW C CORBETT (4). The following figure illustrates the communication network between authors. The names of authors who have had more than 2 articles appear on this network (see Figure 3).

3.4 Countries of articles’ origin

In this section, the communication network between authors’ countries is shown. It has 39 nodes and 218 edges. The US is the largest node in the network, with 350 articles and a 0.55
betweenness-centrality. The most prolific countries in this area are England with 115 papers and 0.44 papers and the Netherlands 72 papers and papers 0.04, Canada 61 papers 0.03, Germany 61 papers 0.03, Australia 55 papers 0.16 and Spain 50 papers 0.04. There are countries with more than 50 articles (see Figure 4).

3.5 Research organizations
Organizations active in a scientific field and collaborating with one another are one of the most important elements in scientific papers and research. In the area of opportunity
3.6 Themes and fields of entrepreneurial ecosystem

This section deals with keywords co-occurrence analysis and after removing some inappropriate words from the network, the desired analysis is performed. The analysis shows that the most commonly used words over time include performance (178), opportunity identification (173), opportunity recognition (170), innovation (147), entrepreneurship (130) and knowledge (99). On the other hand, the 10 keywords with the most centrality are performance, opportunity identification, opportunity recognition, knowledge and innovation, respectively. These keywords are more than 0.1 in the centrality index. In addition to the above, the most important keywords used after 2018 that have been repeated more than 5 times, including motivation, personality, market, entrepreneurship education, mediating role, enterprise, determinant, moderating role, opportunity recognition, intention, dynamic capability, behavior is exploration, work and sustainable entrepreneurship. The path to using keywords over time has been thoroughly outlined in the time zone section. The following image illustrates the keywords used in the articles under review that cover all of the items in this section (see Figure 6).

In this section, time zone vocabulary is outlined to better understand the development process and the extent to which different keywords are used over time. The time zone shown in the image below shows all keywords from 1991 to 2020 continuously from left to right. The closer we get to the right, the closer we are to the present, and the closer we get to the left, we get closer to 1991. The large size of the nodes mark indicates the repeatability of them in all the articles reviewed. In the background of this figure, the differentiation of the years is
shown in two different colors, meaning that each vertical cut represents one year and separately from 1991 to 2020 (see Figure 7).

The picture above shows that the main roots of this field come from the concept of innovation and then entrepreneurship. Approximately since 2000, with the emergence of terms such as absorptive capacity, capability and opportunity, a concept known as opportunity recognition and then opportunity identification has been used in a wide range of articles. These two concepts, which are the keywords of this research, have been extensively used in the articles until 2020, along with concepts such as dynamic capability, entrepreneurial orientation, entrepreneurial intention and entrepreneurial alertness. The keyword path represents the mental map of researchers in this field and shows that researchers have paid more attention in recent years to individual characteristics of entrepreneurs and the economic development of countries.

3.7 Top clusters of entrepreneurial environment research in past decade
In this section, co-citation clustering has been performed to identify the scientific clusters among articles in the last decade. But before reviewing clusters and identifying the most important articles in each cluster a decade ago, the most important articles in all of this database have been identified and introduced using co-citation analysis. The following figure illustrates the communication network between the references of articles published in the field, which contains 1,206 nodes and 5,644 edges. This network has featured articles that have been referred to more than 15 times (see Figure 8).

The most important articles that have been cited more than 25 times in the articles reviewed in this field are shown in the table below (see Table 3).

After identifying the most important articles in this field, in order to identify the main clusters and the most important articles of each cluster in the last decade, the articles published in the 2010 to 2020 period have been separated for analysis. At this stage, 1,079 nodes and 4,932 edges have been identified and clustered on it. The modularity of the clustering performed is $Q = 0.672$, which is significant. The number of clusters obtained at this stage is 18 clusters with an average silhouette index of 0.84. In the following, five clusters
Figure 7.
Time zone chart of keywords
with the largest number of members and the largest distinction in mutual terms were selected and the articles related to each cluster were studied. The figure of the identified clusters is as follows (see Figure 9).

The Table 4 summarizes the information on these clusters. This table presents the number of clusters, the number of articles within the cluster, the silhouette index, the average year of publication of the cluster articles and the keywords commonly used among the articles in each domain.

3.7.1 Cluster 1—entrepreneurial characteristics and opportunity recognition. This cluster has the largest number of articles and holds 154 articles. Most of the articles in this cluster have examined the individual characteristics of an entrepreneur in identifying opportunities (Delgado García et al., 2015). Among the most important relationships examined in the articles of this cluster are the relation between entrepreneurial behavior and opportunity recognition (Bird et al., 2012), the relationship between psychological characteristics of entrepreneur and opportunity identifier (Frese and Gielnik, 2014), the relationship between cognitive factors and opportunity recognition (Grégoire et al., 2015), the relationship between past experiences of entrepreneurship and opportunity recognition (Vandor and Franke, 2016; Clarysse et al., 2011), the relationship between entrepreneurial passion and entrepreneurial alertness and opportunity recognition (Ma et al., 2020; Bao et al., 2017) and the relationship between entrepreneur self-efficacy and opportunity recognition (Trevelyan, 2011).

3.7.2 Cluster 2—recognizing macro-level opportunity (community and impact on country’s economic development). Most papers in this cluster have explored the concept of opportunity recognition at the macro level. This level includes social entrepreneurship, sustainable development, economic development and etc. Social entrepreneurship and opportunity recognition for social purposes is one of the most important issues in this field and has received numerous articles (Zahra et al., 2014; Yitshaki and Kropp, 2016; Wry and York, 2017; Perrini et al., 2010). Among the main articles in this field are corner article (2010) entitled “How opportunities develop in social entrepreneurship” (Corner and HO, 2010). In addition to social entrepreneurship, the second batch of papers in this cluster focus on sustainable opportunity recognition, sustainable development and macroeconomic development (Ploum et al., 2018; Filser et al., 2019; Ceptureanu et al., 2017; Belz and Binder, 2017). In total, it can be stated that
This cluster contains 108 articles examining opportunity recognition at the macro and community level and its impact on sustainable development.

3.7.3 Cluster 3—opportunity recognition process. A process perspective on opportunity recognition is another cluster identified in this study that includes 93 articles. In general, the articles in this cluster have focused on understanding how opportunity has been identified and discussed with different approaches (Webb et al., 2011; Tang, 2010; Murphy, 2011). Two of the main articles in this cluster are “Investigating how opportunity recognition in China” in 2010 and “Cognitive processes of opportunity recognition” in 2010 (Gregoire et al., 2010).
In addition to articles dealing directly with the opportunity recognition process, other articles in the cluster have also strategically addressed the issue of opportunity recognition and examined it (Santos-Álvarez and García-Merino, 2010; Hitt et al., 2011; Gregoire et al., 2010).

3.7.4 Cluster 4—opportunity recognition in serial and intra-organizational entrepreneurs. This cluster generally identifies opportunities in the two contexts of serial entrepreneurship and intra-organizational entrepreneurship. This cluster of 85 articles contains more new articles and the average time of publishing 85 articles in this cluster is 2014. The first batch of papers in this field are papers on intra-organizational entrepreneurship and identifying entrepreneurial opportunities within the organization (Vedula et al., 2019; Rigtering et al., 2019; Neessen et al., 2019). The second set of articles in this cluster also includes articles that have explored the concept of opportunity recognition in the context of serial entrepreneurship (Vaillant and Lafuente, 2019; Lafuente et al., 2019).

3.7.5 Cluster 5—opportunity recognition and new venture internationalization. Internationalizing ventures and recognizing entrepreneurial opportunities globally is a topic that has been addressed in most articles in this cluster (Prashantham and Floyd, 2019). It also has newer articles than other clusters, with an average of 81 articles published in 2014. Some articles in this cluster have explored the concept of international entrepreneurship and the relationship of different factors to opportunity recognition and international entrepreneurship (Wasowska, 2019; Kirwan et al., 2019) and others have examined opportunity recognition in different countries and compared them with the aim of studying international entrepreneurship (Weerawardena et al., 2019; Urban and Galawe, 2019; Kiss et al., 2019).
4. Conclusion

The purpose of this study is to provide a systematic literature review based on bibliometric analysis in the field of entrepreneurial opportunity recognition. For this purpose, all articles published in the field of opportunity recognition and identification in the Web of Science citation database were used in this study. Initial searches of the database comprise a total of 1,194, which, after filtering by two categories, the Science Citation Index Expanded (SCI-E) and the Social Sciences Citation Index (SSCI), left 868 scientific papers. These include 786 articles, 71 reviews, 20 proceeding papers, and 1 book chapter covering 1991 to 2020. The analysis performed in this paper comprises three different types of bibliometric analysis including network analysis, co-occurrence analysis and time zone chart of keywords and co-citation clustering analysis of the research fronts. In addition, other statistical data related to article data are also provided. This study attempts to present a large picture of the field of entrepreneurial opportunity recognition.

The contribution of this research is, using new systematic literature review method using network analysis and clustering method as a method of data mining in field of entrepreneurship. Also, this research makes a big picture of studies in the field of opportunity recognition and cluster, all of researches in 5 prominent clusters.
The trend of articles in this field has been quite upward and started in 1991. The largest number of articles published in the years was 2019, with 121 records. Analyses show that the most commonly used terms in the articles, such as performance, opportunity identification, opportunity recognition, innovation and entrepreneurship, had the highest number of duplicates. In recent years, more research has been focused on sustainable development and opportunity recognition at the macro level, as well as investigating the impact of entrepreneur’s individual characteristics on the opportunity recognition process. Examination of keyword time trends shows that the two terms opportunity identification and opportunity recognition have been used extensively in the literature since 2005 onwards.

After analyzing keywords, two main categories were analyzed using co-citation analysis. In the first section, the most important articles cited more than 25 times in the articles reviewed in this study are identified. The most important article, cited 68 times in total, is Baron’s (2006) article entitled “opportunity recognition as the detection of meaningful patterns: evidence from comparisons of novice and experienced entrepreneurs” (Baron and Ensley, 2006). After that the article of Tang in 2012 with a total of 54 citations (Tang et al., 2012) and Ucbacaran in 2009 with a total of 54 citations (Ucbasaran et al., 2009) are the most cited articles in this field. In addition, in order to identify the most important clusters of the last decade, five main clusters have been identified among the 2010–2020 articles. Co-citation clustering is also used for this purpose. The identified clusters include entrepreneurial characteristics and opportunity recognition cluster, macroeconomic opportunity recognition cluster (community and impact on economic development of the country), opportunity recognition process cluster, opportunity recognition cluster in serial and intra-organizational entrepreneurship, opportunity recognition cluster and new venture internationalization. These 5 clusters have the largest number of articles; therefore, in view of the importance of these clusters, it is suggested that in future research, a systematic in-depth study of each of these 5 clusters should be done to minimize their dark spots. This will map out the researchers’ roadmap for future research in the field of opportunity recognition.

In addition, it is suggested that in future research, the characteristics of the entrepreneur who affect the effectiveness of the individual in recognizing the opportunity be identified and this model be evaluated on different entrepreneurs. On the other hand, it is possible to identify effective environmental criteria and separately assess its impact on identifying the opportunity of entrepreneurs. Given that the macro level has been identified as an important level in opportunity recognition research, it is suggested that the impact of institutions on entrepreneurship in the opportunity recognition process be evaluated and using the case analysis method, several accelerators, incubators and the Science and Technology Park, analyzed and compared for this purpose. It is suggested that in future research, by using the method of systematic study of literature and also combining it with the methods of qualitative analysis, the process of opportunity recognition in different types of countries, including developed, developing and underdeveloped, be identified and compared between these processes. Comparing these processes can have a significant impact at the macro level and policymaking.

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