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ADVANCED DEVELOPMENT AND INTELLECTUAL CAPITAL: AN INFLUENTIAL ASSESSMENT⁶

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The countries' success is determined by the production drivers that are explained as the key factors to take advantages of the fourth industrial revolution for accelerating the transformation of national production systems [1]. The main factors that position the enterprise for using new technologies and opportunities in the future are technologies and innovations, human capital, global trade and investments, institutional frameworks, stable resources and demand environment. Human capital is the ability to respond to changes in the labor market caused by the Fourth Industrial Revolution through developing skills and talent in the current and future workforce. Given that human capital is the most vital production driver of advanced innovative development [2–6], and it is the structural part of intellectual capital [7], it is reasonable to assess influence intellectual capital on advanced development. Therefore, this study is aimed to look at the relationship between advanced development and intellectual capital by systematic literature review and explore future directions of research in this area.

The study has been carried out using a systematic literature review methodology. The collected data of 15248 articles, proceedings papers, book chapters, review and editorial material from Web of Science Core Collection database (until 15 March 2021) is analyzed by using bibliometric and network analysis. The collected data has been formed by utilizing various keywords within Web of Science Core Collection database (table 1). For advanced refine options, the Results Analysis tool has been used. In terms of annual articles release (Table 2), maximum number of publications has been brought out in 2017, 2019, 2015, 2018, 2016 and 2014.

Table 1. Keywords search results

Keywords	Search results
Intellectual capital	6121
Advanced development AND innovation	8981
Intellectual capital AND advanced development	146
Total	15248

Source: own elaboration based on Web of Science Core Collection Database 1975 to 2021 (15 March)

⁶ The article came into being within the Grant no. 0120U102003 entitled 'Process of formation of the novel ecologically safe fertilizers with prolonged action based on the phosphorite deposits raw material' financed by Ministry of Science and Education of Ukraine

Given the number of publications related to combination intellectual capital AND advanced development, it is recommended that more attention should be focus on this research area.

Table 2. Annual publications

Year	Number of Articles		
	1*	2*	3*
2021		2	
2020	374	825	8
2019	564	989	19
2018	493	944	13
2017	584	836	21
2016	478	725	8
2015	546	698	14
2014	390	499	10
2013	341	474	5
2012	337	417	5
2011	378	372	13
2010	296	325	4

* Keywords: 1 – Intellectual capital; 2 – Advanced development AND innovation; 3 – Intellectual capital AND advanced development

Source: own elaboration based on Web of Science Database 2010 to 2021 (15 March)

Table 3 shows the university-wise contribution to studies related to advanced development and intellectual capital. Table 4 indicates the journals publishing articles in the selected area and therefore enhancing the journals popularity for future studies.

Table 3. Affiliation-wise publications

	Number of Articles		
	1*	2*	3*
Bucharest University of Economic Studied (145)	University of California System (251)	Autonomous University of Madrid (3)	
Islamic Azad University (62)	University of London (151)	HSE University (3)	
Ministry of Education Science of Ukraine (54)	Harvard University (149)	Ministry of Education Science of Ukraine (3)	
Macquarie University (53)	Chinese Academy of Sciences (93)	Al Farabi Kazakh	
University of Castilla-La Mancha (49)	University of Texas System (83)	National University (2)	
		Bangkok University (2)	

* Keywords: 1 – Intellectual capital; 2 – Advanced development AND innovation; 3 – Intellectual capital AND advanced development

Source: own elaboration based on Web of Science Core Collection Database 2010 to 2021 (15 March)

Table 4. Journal-wise publications

Number of Articles		
1*	2*	3*
Journal of Intellectual capital (240) Proceedings of the European Conference on Intellectual capita (225) Proceedings of the European Conference on Knowledge Management (78) Proceedings of the International Conference on Intellectual capital Knowledge Management Organizational Learning (77) Knowledge Management Research Practice (63)	Sustainability (90) Research Policy (81) Technological Forecasting and Social Change (81) INTED Proceedings (79) Journal of Cleaner Production (75)	2011 6th international forum on knowledge asset dynamics IFKAD2011 (6) Proceedings of the European Conference on Intellectual capital (6) Consumer Centered Computer Supported Care for Healthy People (3) INTED Proceedings (3) Journal of Knowledge Management (3)

* Keywords: 1 – Intellectual capital; 2 – Advanced development AND innovation; 3 – Intellectual capital AND advanced development

Source: own elaboration based on Web of Science Core Collection Database 1975 to 2021 (15 March)

List of countries examining advanced development in close correlation with intellectual capital is shown in table 5.

Table 5. Publications of top countries

Number of Articles		
1*	2*	3*
USA (881) China (457) Italy (431) England (392) Spain (369)	USA (2 750) China (1 174) England (866) Germany (582) Italy (448)	Russia (22) USA (19) England (9) Romania (9) Spain (9)

* Keywords: 1 – Intellectual capital; 2 – Advanced development AND innovation; 3 – Intellectual capital AND advanced development

Source: own elaboration based on Web of Science Database 1975 to 2021 (15 March)

Studies concerning advanced development and itellectual capital simultaneously have conducted in different research areas (table 6).

Thus, it should be noted that number of articles concerning advanced development and intellectual capital simultaneously is not huge. Understanding the relationship between these functions and given studies that has already carried out for last 45 years, further research should be aimed at extending knowledge in this area, particularly, developing approaches to management of the advanced innovative development of company taking his intellectual capital into consideration, as well as

applying neural networks in maintaining of the intelligent management.

Table 6. Subject-wise publications

Number of Articles		
1*	2*	3*
Management (2,428)	Management (1,282)	Management (47)
Business (1,702)	Business (879)	Economics (30)
Economics (1,077)	Economics (701)	Business (24)
Information Science	Education Educational	Information Science
Library Science (473)	research (649)	Library Science (15)
Business Finance (397)	Engineering Electrical	Education Educational
	Electronic (475)	research (12)

* Keywords: 1 – Intellectual capital; 2 – Advanced development AND innovation; 3 – Intellectual capital AND advanced development

Source: own elaboration based on Web of Science Database 1975 to 2021 (15 March)

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