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Journal Name:	British Journal of Economics, Management & Trade
Manuscript Number:	Ms_BJEMT_24812
Title of the Manuscript:	BENCHMARKING STUDY OF THE GLOBAL AND UKRAINIAN TRENDS IN NANOTECHNOLOGIES' SCIENTIFIC RESEARCH FOR THE FUTURE NBIC-SOCIETY
Type of the Article	Short Research Article

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SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Line 15 to 39 There is no justification on how this study will help the nano-bio-info and cogno society.	Please see lines 36-39. "The main purpose of the research is to analyze the modern perspectives and to perform benchmarking study of the Global and Ukrainian trends in nanotechnologies development as part of NBIC-technologies' scientific domain to identify priority areas of scientific and technical policy of Ukraine for the future NBIC-society".
	Why there is need to forecast the new publication emergence by nanotechnologies R&D?	It is necessary to forecast the new publications emergence in the field of nanotechnology to understand the trends and rates differences between Ukrainian and global studies development in the future.
	If the researcher found that there increase or decrease of new publication emerge how it will contribute to the given countries?	If the number of new publications increase or decrease this will show the priority changes in national nanotechnology R&D and concentration on commercial utilization (as it's pointed out in lines 149-209).
	The problem is not clearly addressed and not in line with the results and discussion	Spend more precise alignment of the problem in accordance with the results and discussions. Emphasis is placed on the fact that the definition of priorities for nanotechnology research in Ukraine, taking into account the priorities of developed countries will more clearly define the priorities of the scientific and technical policy of Ukraine in order to build the future NBIC-society



SDI Review Form 1.6

	Line 40 to 62: There is no evidence or briefly describe on what model been use.	Please see lines 61-64 in revised paper. "Models of time series, including also trend analysis, were used for forecasting. There were used linear, exponential, polynomial and logistic function of time variable. The regression was built by the OLS method. To justify the functions there were used the coefficient of determination (R^2), MAPE, F-statistic for liner models and t-statistic for model parameters significance".
	Besides, the statistical test, diagnostic check and forecasting evaluation performance also need to be justified here. How the researcher evaluated the model is fit or not rather than relying too much on the coefficient of determination (R^2)	Please see lines 61-64 in revised paper and Appendix C (Statistical tests for the best models).
<u>Minor</u> REVISION comments	Table 1 and Table 2 should be in Appendix	Table 1 moved in Appendix A, table 2 moved in Appendix B. Besides, the added Appendix C (Statistical tests for the best models).
<u>Optional/General</u> comments	The researcher has done a comprehensive work especially in collecting the data on number of publications, patent and etc. However, the problem is not clearly justified, model is not briefly described and how to ensure the forecasting model is sound. I believe that rather than studying the trend of publication of nanotech and claims that it is important to the given countries, I would be best if researcher measure "The impact of nanotechnologies studies toward the economic development in..." using the panel data analysis. It will help the researcher to identify whether the nanotechnologies studies will give positive or negative impact toward the economic development.	We believe that the problem of defining the priorities of nanotechnology research in Ukraine (as a part of NBIC technologies in the field of research) to the experience of developed countries in the article quite clearly staged. Description predictive model for publications, as well as the results of calculations for the neighboring countries of Ukraine (Poland and Russia), are given (215-271). Statistic criteria for the best models are in Annex C. Forecast for publishing activities in the world countries in the sphere of "nanoscience and nanotechnologies" (table 3), trend models to forecast number of publications by nanotechnologies R&D spheres (table 6) as presented. The results of calculations for the



SDI Review Form 1.6

		trend model for the patents as presented (421-502). We are grateful to the referee for a good hint about the expansion of our research. The panel data analysis we will use in our further studies, the results of which we may prepare an expanded analytical note. However, in the short format of a scientific article, it seems to us, we have tried to adequately set out our approach to the study of this problem.
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