

DIGITIZATION OF SUPPLY CHAIN: BUSINESS NEEDS**Shyriaieva Natalia, Chaikova Olena, Sitak Iryna***Національний технічний університет**«Харківський політехнічний інститут», м. Харків*

Changes that the Fourth Industrial Revolution brought into the world are affected the whole spheres of business, and especially international business [1]. Companies build and update their Supply Chains regularly [2]. But how supply chains are changing under the Fourth Industrial Revolution?

The Digitization of Supply Chain is one of the first step to take a closer look on changes [3]. What differ the technologies' usage from country to country, from business to business? For instance, how deep the AI algorithms or Robotics or their combination can be integrated along the whole Supply Chain to be as much effective in the future as they are now? The recent mentions of Technologies 4.0 usage revealed the following quantities of publications on the topic via Google Scholar (fig.1)

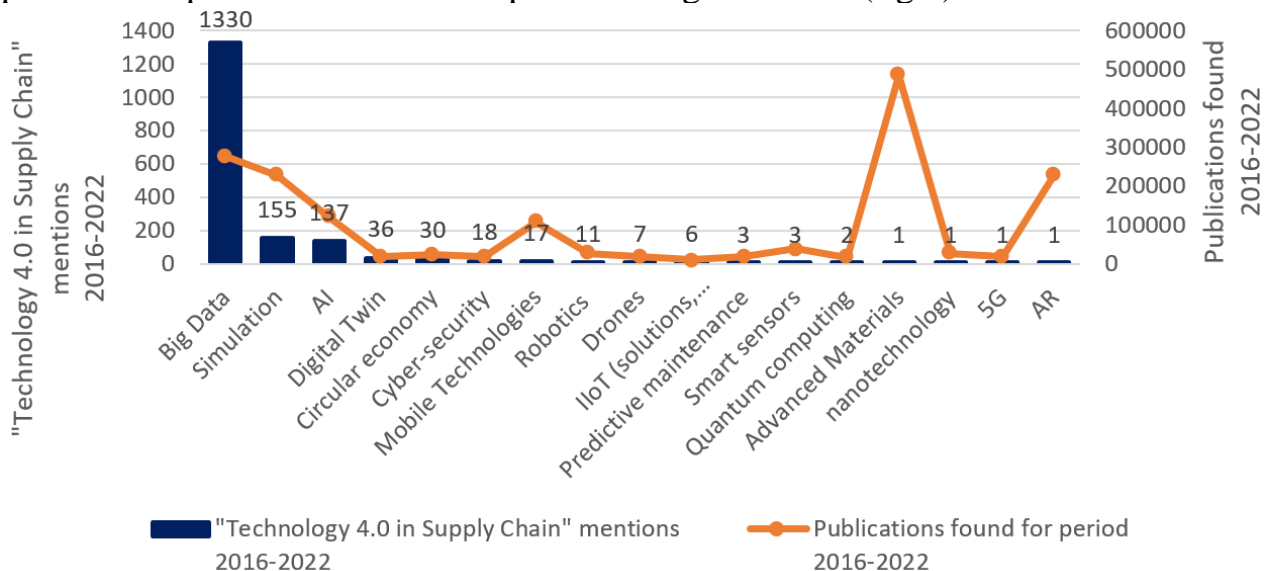


Figure 1 – Publications found for period 2016-2022

It was found that the leading Technologies 4.0 in Supply Chain were Big Data, Simulation, and AI, Digital Twin, Circular Economy, Cyber-security, Mobile Technologies and Robotics. Also, the recent case studies confirmed that along with digitization, companies are in need of the effective application of these technologies as well as the corresponding skilled labor force.

References:

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