Main concepts of technology analysis in the light of the literature on the subject

Katarzyna Halicka¹

¹Faculty of Management, Białystok University of Technology, 45A Wiejska Str., Białystok, 15–351, Poland, e-mail: k.halicka@pb.edu.pl

Abstract: The main aim of this article is to identify and present the relevant concepts and methods of technology analysis. On the basis of the bibliometric analysis of scientific articles, research subareas related to the technology analysis were selected. Relationships between earlier executed research in this field were determined. Taking into account the obtained map of relationships, the possibility of the use of technology analysis was indicated. Also, methods used to analyse the current state of technology and concepts used for the prospective technology analysis were identified. Then, the concepts of predicting the technology development were discussed and compared. The conclusions from the conducted study can be used as the basis for determining the critical directions for the development of research areas related to the technology analysis.

Keywords: technology analysis; forecasting; foresight; technology assessment; Future-oriented Technology Analysis.

References