

Mapping the Cyber Security Research: a Scientometric Analysis of Global Publications

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The present study describes how the growing dependence on digital technology has caused cyber security research to pick up substantially in recent years. Using data from the Web of Science, this study conducts a scientometric analysis of global cyber security research trends covering the period of 2020-2024. Prominent institutions, prolific writers, significant funding agencies, document types and the rise of research output were among the key parameters examined. Result indicated that, publications were steadily increasing, reaching a peak in 2024 (1,973; 23.70%). Most publications were journal articles (91.53%) and English was the most common language (99.86%). India had made significant strides in cyber security research, as seen by its 2024 Activity Index of 124.74. In addition, King Saud University, the Egyptian Knowledge Bank and the National Institute of Technology were among the top providers. The most prolific authors were Wang Y (47 records), Li J (39 records), and Choo KKR (36 records), indicating essential figures in the field of research. The report highlights the importance of international funding organizations and the importance of computer science and information systems in cyber security research. Keywords such as "security," "cyber security," "machine learning," and "Internet of Things" that appeared frequently suggest a heavy emphasis on cutting-edge technologies. Researchers, legislators and funding agencies can use these insights to help shape the future of cyber security research.

Keywords: *Activity index; Cyber security; Internet; Scientometric ;Web of Science.*