

Legal Aspects of Artificial Intelligence

Abstract

The inclusion and further development of artificial intelligence creates novel legal challenges. This thesis attempts to chronologically follow the "life cycle" of artificial intelligence. Firstly, the very concept of artificial intelligence and other related technical and legal terms are explained. Secondly, the creator's rights to artificial intelligence are described, as well as the employees' role in the development of artificial intelligence. The thesis concludes with an analysis of the "creative" possibilities of contemporary artificial intelligence, along with the current Czech regulation of copyright protection.

In this thesis the author tries to make the complex issue of the current state of legal regulation of artificial intelligence and its development tendencies accessible to lawyers. This is achieved by on one hand covering the capabilities of artificial intelligence and on the other hand by emphasizing the limitations of today's artificial intelligence. In the conclusion of the introductory chapter, the author offers a legal definition of artificial intelligence for the needs of copyright law.

Furthermore, the thesis discusses the legal status of the programmer as a creator of artificial intelligence, and of IT companies in business relationships with these programmers. The work assesses selected risk situations and offers solutions to deal with them or - when possible - to prevent them. This chapter also briefly addresses private-law, administrative-law, and criminal measures and remedies for copyright protection.

In the thesis conclusion the author tries to answer the question whether copyright can be applied to the works created by today's artificial intelligence systems. The main goal is to determine whether these outputs can be copyrighted under the existing Czech legislation. For this purpose, the author distinguishes three levels of artificial intelligence creation and *de lege lata* determines the authorship of a human if still possible in the case of specific artificial intelligence system. The

explanation is supplemented by illustrative examples and emphasizes the practical aspects of the issue.