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## PLACE LOGIC AND ITS POSSIBLE APPLICATIONS IN A LOGICAL ANALYSIS OF LEGAL REASONING

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The subject of the consideration contained in the article is topological logic interpreted as place logic and its possible applications in a logical analysis of legal reasoning. The first part of the article is about significance of widely understood spatial element in a law and about a role of formal logic in legal sciences (especially in dogmatic of law) and in legal discourse. There are also given conditions imposed on logical systems which can be applied to analyse legal reasoning. In the second part there is characterization of topological logic interpreted as place logic. In the third part there are examples of formalization of sentences of legal language and of legal inferences using symbols occurring in place logic. In the article there is shown that such kind of logic can be applied to logical analysis some reasoning conducted in legal language, specifically such reasoning in which there appear sentences including, in an explicit or a hidden way, phrase “in place”, that is, information about that, where certain events are realized.