

## GESTALT PSYCHOLOGY AND THE VISUALIZATION OF LAW IN THE ERA OF ARTIFICIAL INTELLIGENCE

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### ABSTRACT

The use of artificial intelligence (AI) systems in the legal profession is accompanied by a particular challenge. More than in other professions, legal practitioners should understand how AI systems make decisions and critically assess the compliance of those decisions with fundamental social values such as morality, justice, the rule of law, etc. This challenge raises complex hermeneutical questions: how to mediate communication between human experience and computer-based formal logic, how to translate human language embodied in legal norms into a numerical language suitable for machine decision-making, and how to ensure that such decisions do not exceed the limits set by societal values.

This paper proposes the use of algorithmic visualization of law through the application of methods derived from Gestalt psychology as an effective means of communication equally understandable to both humans and computers. Within an interdisciplinary approach that combines methods from psychology and legal theory, the paper explains how Gestalt psychology can serve as a useful tool in the visualization of law. Furthermore, it demonstrates how the algorithmic visualization of law contributes to improved human communication and oversight of automated decision-making, while also supporting legal practitioners in constructing more persuasive arguments, and legal theorists and legislators in the logical structuring of legal norms.

Therefore, the integration of algorithmic visualization based on Gestalt psychology methods into legal education may be considered a valuable preparation for future challenges arising from the application of artificial intelligence in legal theory and practice.

**Keywords:** Gestalt psychology, visualization of law, algorithms, legal norms, legal hermeneutics.