

CLELIA: a multi-agent system for Publishing printed and electronic media

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Abstract— This paper describes a multi-agent system (MAS) for automatic publication of information in both printed and electronic media. The main objective is to have a document ready to be displayed (and printed) at every stage of the workflow. This is accomplished by replacing the traditional human role of page editing by a multi-agent system composed of three different agent roles (section, page and element). Key aspects such as page aesthetics or readability are handled by using artificial intelligence techniques such as neural networks, genetic algorithms and fuzzy logic. The theoretical foundations of this system are discussed and an example of implementation using an external toolkit is described.

Index Terms— Multi-agent system, Publishing, Media, Artificial Intelligence.

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