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Using artificial intelligence techniques to standardize intelligent and automated generation of digital forensic reports.

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Abstract. The present study investigates if the digital forensics report can be generated automatically by using some of the artificial intelligence techniques, specifically the natural language processing. A model has been developed to assess if it is feasible to automate the generation of a digital forensic report using artificial intelligent techniques. One of the main purposes for this study is coming from a point where human errors, structure of the reports, critical evidence that should take part of the digital forensic report are omitted during the generation of digital forensic report as well as the interpretation of the evidence drafted by an investigator during investigation. In addition, the standardization of this report happens to be imminent, especially when it is being presented in a court of law. Given the rise of cybercrime, more research is needed to better improve the process of automating the generating digital forensic report using some intelligent techniques.

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