# An Assessment of Data Guidelines in Cryopreservation Laboratories

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### **ABSTRACT**

On May 25, 2018, the General Data Protection Regulation (GDPR) entered into force in the European Union, which is of the utmost importance for monitoring its accomplishment by all organizations, especially those working in the health sector. However, it turns into a very difficult task, i.e., in order to meet this challenge, a practicable problem-solving methodology had to be developed and tested, that lead to a soft approach to computing using Artificial Neural Networks. On the other hand, the method chosen for data collection was the inquiry by questionnaire, in which 156 employees participated. The proposed system has an accuracy of about 90%, which can diagnose the fragility of the laboratory and encourage future improvements to ensure a high level of data protection.

## **CCS CONCEPTS**

• Security and privacy → Human and societal aspects of security and privacy; Privacy protections; • Computing methodologies → Machine learning; Machine learning approaches; Neural networks.

## **KEYWORDS**

Artificial neural networks, Cryopreservation laboratories, Data protection, General data protection regulation, Privacy and security

### ACM Reference Format:

Ana Fernandes, Margarida Figueiredo, José Neves, and Henrique Vicente. 2021. An Assessment of Data Guidelines in Cryopreservation Laboratories. In 2021 International Symposium on Electrical, Electronics and Information Engineering (ISEEIE 2021), February 19–21, 2021, Seoul, Republic of Korea. ACM, New York, NY, USA, 5 pages. https://doi.org/10.1145/3459104.3459200

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ISEEIE 2021, February 19−21, 2021, Seoul, Republic of Korea © 2021 Copyright held by the owner/author(s). ACM ISBN 978-1-4503-8983-9/21/02. https://doi.org/10.1145/3459104.3459200 5 pages.