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Information Security Management Frameworks in Higher Education Institutions: An Overview

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Jorge Merchan-Lima ; Fabian Astudillo-Salinas ; Luis Tello-Oquendo ; Franklin Sanchez ; Gabriel L... All Authors

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Abstract: An overview of academic articles focused on information security management (ISM) in higher education institutions (HEIs) is presented. For this purpose, an empirical study was carried out. The articles found were then analyzed following a methodological procedure consisted of a systematic mapping study with their research questions, inclusion and exclusion criteria, selection of digital libraries, and analysis of the respective search strings. As a result, a set of information security management frameworks (ISMF) for HEIs were identified. They are based on standards such as ISO 27000, COBIT, ITIL, NIST and EDUCAUSE.

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**Jorge Merchan-Lima**Departamento de Eléctrica, Electrónica y Telecomunicaciones, Universidad de Cuenca,  
Cuenca, Ecuador

---

**Fabian Astudillo-Salinas**Departamento de Eléctrica, Electrónica y Telecomunicaciones, Universidad de Cuenca,  
Cuenca, Ecuador

---

**Luis Tello-Oquendo**

College of Engineering, Universidad Nacional de Chimborazo, Riobamba, Ecuador

---

**Franklin Sanchez**Departamento de Electrónica, Telecomunicaciones y Redes de Información, Escuela  
Politécnica Nacional, Quito, Ecuador

---

**Gabriel Lopez**Departamento de Electrónica, Telecomunicaciones y Redes de Información, Escuela  
Politécnica Nacional, Quito, Ecuador

---

**Dorys Quiroz**Departamento de Ciencia de la Computación, Universidad de las Fuerzas Armadas  
ESPE, Quito, Ecuador

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### I. Introduction

Higher education institutions (HEIs) are a specific type of organization with particular requirements. The goals of HEIs are mainly education and research. Also, as other organizations, they depend on information technology (IT) since it is used for their everyday activities. Data in HEIs are considered as a very high-value asset in information security management (ISM), which consist of teaching, learning, scientific research, administrative management, public service, and cultural, among other data.

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### Authors

**Jorge Merchan-Lima**Departamento de Eléctrica, Electrónica y Telecomunicaciones, Universidad de  
Cuenca, Cuenca, Ecuador

---

**Fabian Astudillo-Salinas**Departamento de Eléctrica, Electrónica y Telecomunicaciones, Universidad de  
Cuenca, Cuenca, Ecuador

---

**Luis Tello-Oquendo**

College of Engineering, Universidad Nacional de Chimborazo, Riobamba, Ecuador

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Gabriel Lopez  
 Departamento de Electrónica, Telecomunicaciones y Redes de Información,  
 Escuela Politécnica Nacional, Quito, Ecuador

---

Dorys Quiroz  
 Departamento de Ciencia de la Computación, Universidad de las Fuerzas Armadas  
 ESPE, Quito, Ecuador

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