

THESIS SUMMARY
„INNOVATIVE MANAGEMENT SYSTEM FOR THE DETECTION OF
INFORMATIONAL ATTACKS ON DATABASES”

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The PhD thesis is in the field of "Electronic Engineering and Telecommunications" through the complexity of the topic that deals with informational security issues.

The main objective of the thesis is to develop an innovativ management system which can detect databases intrusions for different systems locations in Cloud computing.

The paper is structured in 8 chapters. The first chapter explains the importance of the innovative system and the personal contributions as the final goal of the paper.

Chapter 2 describes the security methodologies for informational systems, security mechanisms and concepts to create a secure environment for the innovative system development.

Chapter 3 analyzed the similar system solutions for intrusion detection. From the analyzed solutions it can be observed that the research can be improved by extending them with a single aria innovative system, in order to detect the databases intrusions from cloud systems. It is also presented an innovative part, the solutions being extended with artificial immunity systems based.

Chapter 4 presents the technologies used to develop the innovative system and the general architecture. Also, the core components of the innovative system with the possibility to integrate in Cloud computing are presented.

In Chapter 5 the system is modeled to get an overview of the future architecture and to create the knowledge base. Each module functionality is detailed using UML diagrams.

Chapter 6 focuses on detailing the design, implementation and interconnection of the innovative system with an innovative environment. All the modules of the system and their importance are presented.

Chapter 7 presents application of innovative systems. These are developed in a doctoral research environment, highlighting the usefulness of implementing the system. In the 8th chapter the conclusions, research results and future directions that aim to maximize system functionality are described.