**BABEȘ-BOLYAI UNIVERSITY CLUJ-NAPOCA**

**FACULTY OF MATHEMATICS AND COMPUTER**

**SCIENCE**

**SPECIALIZATION COMPUTER SCIENCE**

**DIPLOMA THESIS**

Document classification using Computer Vision implemented in an Object-Oriented Language

**Supervisor**

Asist. dr. Petrescu Manuela

**Author**

Pop David Alexandru

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**UNIVERSITATEA BABEȘ-BOLYAI CLUJ-NAPOCA**

**FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ**

**SPECIALIZAREA INFORMATICĂ**

**LUCRARE DE LICENȚĂ**

Clasificare de documente folosind viziune computerizata intr-un limbaj de programare orientat pe obiecte

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### 1. Introduction

In an era where the volume of digital documents is expanding exponentially, the need for effective organization and classification methods is paramount. Document classification, the task of automatically assigning predefined categories to text documents, plays a pivotal role in numerous real-world applications such as registering a car. The main problem in this thesis is classifying documents using computer vision. Generally, there are two solutions: manual classification and automatic classification. The manual approach implies that the user specifies the type of document. The automatic approach makes use of the technology Optical Character Recognition, known as OCR.