UNIVERSITATEA DIN BUCUREȘTI FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ

LUCRARE DE LICENȚĂ

Coordonator:
Prof. Dr. Radu Ionescu

Absolvent:
Moldovan George-Alexandru

București
Iunie (fingers crossed), 2020

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Sistem pentru detectarea anomaliilor in video

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Abstract

Având in vedere contextul actual, detectarea anomaliilor in video este un subiect de interes in mai multe arii, in mod special in securitatea publică. Aceasta problemă putem spune ca este încă nerezolvată, deoarece sistemele actuale nu depăşesc deocamdata omul cand vine vorba de detectarea anomaliilor. De asemenea, o altă problemă a sistemelor de detectare a anomaliilor în video este nevoia acestora de resurse computaţionale mari in partea de inferența, facând aproape imposibilă rularea acestora direct pe hardware-ul existent al sistemelor de supraveghere video actuale, acolo unde acestea prezinta un maxim interes. Aceasta lucrare îşi propune o implementare al sistemului state-of-the-art la momentul redactării, aşa cum este prezentat de Ionescu et al. [1]. Obiectivul este obţinerea unei arhitecturi serverless si expunerea etapei de inferenţă printr-un API astfel încât convertirea unui sistem de supraveghere clasic într-unul inteligent să devină doar o problemă de implementare, fara a fi nevoie de schimbarea hardware-ului.

Chapter 1

Introducere

1.1 Motivatie

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Chapter 2

Plictiseala

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Bibliography

[1] R. T. Ionescu, F. S. Khan, M. Georgescu, and L. Shao. Object-centric auto-encoders and dummy anomalies for abnormal event detection in video. pages 7834–7843, 2019.