

**300** 

# Korištenje mašinskog učenja za prepoznavanje spola na slici

Seminarski rad

#### **ABSTRACT**

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#### SAŽETAK

#### 1. Uvod

#### 1.1. Opis problema

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#### 1.2. Pregled literature vezane za opisani problem

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#### 1.3. Moguće aplikacije u praksi

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#### 2. Korišteni algoritam

#### **2.1. Uvod**

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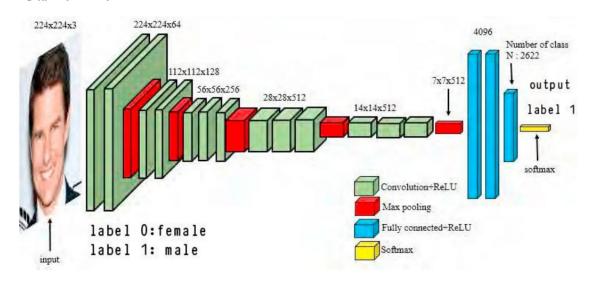
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#### 2.2. Opis rada korištenog algoritma

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Slika 2.1. Primjer arhitekture CNN-a[6]

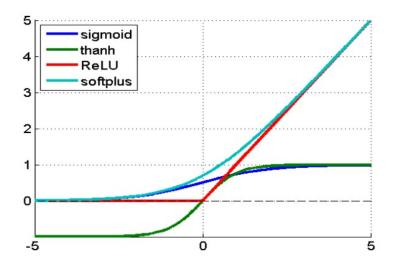
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Slika 2.2. Neke vrste nelinearnosti (aktivacijskih funkcija) koje se koriste kod CNN[3]

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## 2.3. Svođenje opisanog problema u formu korištenog algoritma

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Slika 2.3. Neki uzorci iz dataset-a UTKFace [7]

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Layer (type)	Output	Shape	Param #
conv2d_45 (Conv2D)	(None,	3, 64, 32)	18464
conv2d_46 (Conv2D)	(None,	3, 64, 32)	9248
max_pooling2d_23 (MaxPooling	(None,	3, 32, 16)	0
conv2d_47 (Conv2D)	(None,	3, 32, 64)	9280
conv2d_48 (Conv2D)	(None,	3, 32, 64)	36928
max_pooling2d_24 (MaxPooling	(None,	3, 16, 32)	0
conv2d_49 (Conv2D)	(None,	3, 16, 128)	36992
conv2d_50 (Conv2D)	(None,	3, 16, 128)	147584
max_pooling2d_25 (MaxPooling	(None,	3, 8, 64)	0
conv2d_51 (Conv2D)	(None,	3, 8, 256)	147712
conv2d_52 (Conv2D)	(None,	3, 8, 256)	590080
max_pooling2d_26 (MaxPooling	(None,	3, 4, 128)	0
flatten_7 (Flatten)	(None,	1536)	0
dense_20 (Dense)	(None,	256)	393472
dropout_9 (Dropout)	(None,	256)	0
dense_21 (Dense)	(None,	256)	65792
dropout_10 (Dropout)	(None,	256)	0
dense_22 (Dense)	(None,	1)	257
activation_5 (Activation)	(None,	1)	0

Total params: 1,455,809 Trainable params: 1,455,809 Non-trainable params: 0

#### Till 161in

#### 2.4. Zaključak

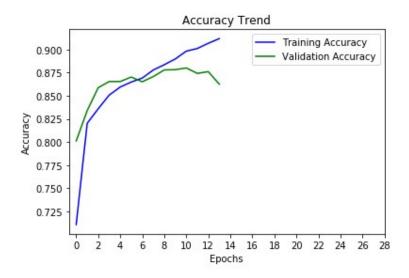
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### 3. Simulacijski rezultati

## 3.1. Uvod

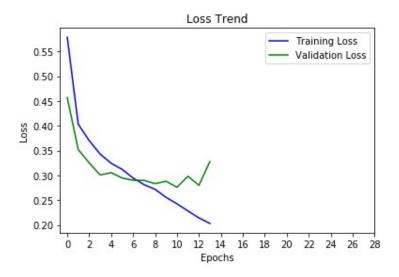
#### 3.2. Rezultati simulacija

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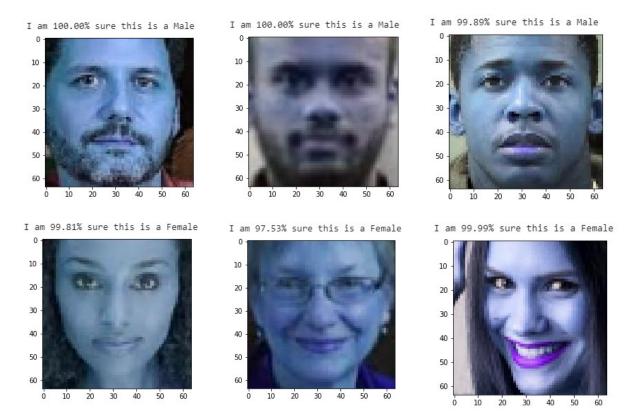
Slika 3.1. Plot performansi procesa treniranja

#### ktráza ndára i Bo



Slika 3.2.Histogram grešaka za istrenirani model

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Slika 3.1. Izlazi iz modela za neke testne situacije

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3.3. Zaključak

### 4. Zaključak i diskusija

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#### Reference

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