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HOCHSCHULE DARMSTADT  
UNIVERSITY OF APPLIED SCIENCES

**fbi**

FACHBEREICH INFORMATIK



**ATHENE**

National Research Center  
for Applied Cybersecurity

## – Master-/Bachelor Thesis – MST-NET (Skin Tone Classifier)

**da/sec**



da/sec is the biometrics and Internet security research group and is affiliated with University of Applied Sciences Darmstadt and the National Research Center for Applied Cybersecurity (ATHENE). The group is led by Prof. Dr. Christoph Busch. The focus of the group is on highly innovative and applied IT security research in the special fields of biometrics. Read more on [www.dasec.h-da.de](http://www.dasec.h-da.de).

### Motivation & Goal

Face recognition systems are frequently criticized for making biased decisions, particularly across different demographic groups. While numerous public face databases include ethnicity labels, they often fail to reflect variations in different skin tones. The goal of this thesis is to design and train a network/classifier for automatically assigning the associated MST Skin Tone category <https://skintone.google/get-started> to a given facial image.

### Tasks

- Research current skin tone scales and their applications
- Research and collect appropriated face databases
- Design and train a network for assigning the MST Skin Tone category to a given face image

### Requirements

- High motivation and creativity
- Strong interest in computer vision
- Strong programming experience

### By Date

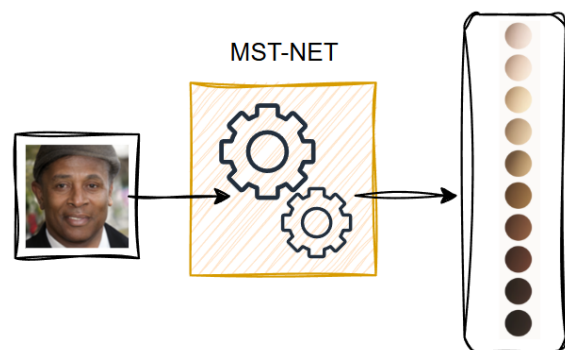
By now / by appointment

### Contact

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