

PhD Position

Presentation Attack Detection in Biometric Systems

**NTNU
Gjøvik**

The Norwegian University of Science and Technology in Gjøvik (NTNU, <https://www.ntnu.edu/gjovik>) invites applications for a Ph.D. research fellow in biometrics. The position is based at the Norwegian Information Security Laboratory (NISlab, www.nislab.no), Norway's largest research group in information security, and host of the Norwegian Biometrics laboratory (NBL). The biometrics lab is currently working on three ongoing EU research projects under the FP7 framework program. The projects, namely INGRESS, ORIGINS and PIDaaS deal with biometrics and identity management. Moreover, NBL is serving industry on bilateral research activities and has also established a project relationship with the Nasjonalt ID-senter (NID). Also on the national level NBL was awarded recently with the SWAN project, which is funded by the Research Council of Norway under the IKTPLUSS program.

**Motivation &
Goals**

The deployment of biometric recognition systems has increased over the past decades in a wide variety of scenarios, ranging from access control to smartphone and laptop unlocking. In spite of its numerous advantages over traditional token or password based authentication systems, recent security and privacy concerns have fostered the development of new methods to detect and prevent different attacking strategies.

The aim of the PhD Thesis is to develop a 3D multimodal biometric sensor, design novel features and models to achieve the generalizable presentation attack detection in face/fingerprint biometric system. This research will be conducted in the framework of an international project with Norway, Germany and USA.

Requirements

- Master degree in computer science or related fields.
- Good programming skills (e.g., familiar with Python, C, Matlab).
- Knowledge in image processing, pattern recognition and machine learning is an asset.

Contact

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