



Press release

Biometrics and Big Data

iCOGNIZE GmbH in cooperation with the University of Darmstadt conducted research within the project "BioBiDA – Biometrics and Big Data". The aim was to enable search in large biometric data sets in real-time during biometric identification. Biometric systems are becoming more and more popular, and security standards are improving.

Dieses Projekt (HA-Projekt-Nr.: 594/18-17) wird im Rahmen der Innovationsförderung Hessen aus Mitteln der LOEWE – Landes- Offensive zur Entwicklung Wissenschaftlich- ökonomischer Exzellenz, Förderlinie 3: KMU- Verbundvorhaben gefördert.



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Biometric systems are becoming increasingly popular, and security standards are improving. Therefore, biometric security systems are being used more and more frequently in all areas of industry, business and government. They must be able to retrieve ever-larger amounts of data in the shortest possible time. Efficient and accurate processing of these large sets of biometric data is essential.

iCOGNIZE, founded in 2007 and based in Dietzenbach, Hessen in Germany, has broad experience in the field of biometric access control and specialises in highly secure contactless biometrics and access control systems.

Two years ago, in cooperation with the research group "Biometrics and Internet Security" of the University of Darmstadt, which is affiliated to the National Research Centre for Applied Cyber Security (ATHENE), and the Federal Criminal Police Office, a project was launched with the aim of developing efficient algorithms and data structures for biometric identification. Its aim was to enable searches in large sets of biometric data in real-time and to facilitate the protection of biometric data.

The focus was on the biometric features of faces and hands.

iCOGNIZE GmbH focused on its core competence, that is biometric data capture using palm veins. The project "BioBiDA – Biometrics and Big Data" contributed to the broadening of the technical knowledge and experience and creating a basis for expanding the product portfolio to include finger veins and facial recognition, especially in databases with over 10,000 persons. The "Made in Germany" label shall be extended and strengthened.

The security systems developed by iCOGNIZE at the facility in Hessen already effectively secure critical infrastructure, such as nuclear power plants, computer centres and airports. With the results of the research project, the company is taking a further step into the future of biometric access control.

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