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 Left: Intenta's sensor. Copyright: Istockphotos.com, baona; Intenta
 Right: Photo: Intenta

Software that impresses

At the Chemnitz-based IT company Intenta, a young team of engineers with expert knowledge and many years of experience develop innovative software and algorithms for automatic surveillance, as well as person or object recognition tasks.

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Founded in 2011 by Dr. Basel Fardi and Dr. Heiko Cramer, Intenta has quickly grown into a forerunner in their field. While developing and marketing its own products in the field of automated detection and recognition of people and objects, Intenta also cooperates with companies to develop individual system solutions.

In the field of sensor systems, for example, Intenta develops its own innovative product line on the basis of the S2000 sensor. The S2000 is a 3D SmartSensor and represents a new generation of intelligent cameras which are characterised by three-dimensional scene detection. This means that the integrated software records the surrounding area and thus automatically and reliably recognises people and objects.

Thanks to integrated image processing for the analysis of data, no additional computing equipment is necessary and the transfer or broadcast of video data can be omitted completely. It can be used for various scenarios and potential applications, such as for access control for automatic border control systems, room surveillance in banks, recognition and reporting of potentially dangerous situations or for collecting statistical data, counting people or measuring dwell time.

Intenta's expertise in the automotive field lends itself to the further development of the sensor. Here, the vehicle's surroundings are monitored with sensors too and the resulting image information is provided with the help of highly complex software

and algorithms. "With the S2000, we and our clients can enter new markets which weren't able to be served sufficiently with conventional technologies," notes Jana Goldhahn, who is responsible for marketing at Intenta. Therefore, the S2000 can be further used in radiotherapy to monitor the radiation in the room for example. Even at home, the S2000 can recognise emergency situations as the sensor detects if a person is lying down on the floor.

Intenta also develops high-quality automotive software for navigation, driver assistance systems or autonomous driving. The development of software for the automotive market is considered to be a particularly challenging task, but Intenta has mastered not only the development of software components according to existing guidelines and standards, but the company also develops automotive software with passion and success.

Last but not least, Intenta develops custom systems and software or algorithm solutions for their clients and cooperates with several universities and research centres such as the Technical University of Chemnitz. Intenta is sure to be a great partner, while customer satisfaction and flexibility are of particular importance to them.

www.intenta.de