

Fiberio – a platform for secure digital interaction

Award winner at the CeBIT Innovation Award 2014

Fiberio is a “multitouch table” that identifies fingerprints in fractions of a second during user activities. In this way, a number of users without any registration or login can be identified and can simultaneously interact. The technology, which is based on an innovative glass fibre optic material, provides a high and user-friendly security standard.

When a computer user wants to start an activity on the multitouch surface, Fiberio identifies him imperceptibly, quickly and securely. This means that a number of users can be authenticated and can interact simultaneously at the table. The problem of unauthorised persons being able to access the data is thereby solved. With Fiberio, it is no longer necessary to set up a time-out function and users are spared the need to keep re-authenticating themselves by means of repeated log-ins.

The permanent biometric authentication by way of fingerprint recognition is important when, for example, different users with different competencies are processing digital documents at the same workstation. Fiberio can recognise that out of, say, two bank employees who are working with the system, only one is authorised to approve payment instructions of a certain magnitude which are displayed.

Fiberio was developed at the Hasso-Plattner-Institut (HPI) in Potsdam by the HPI Masters student Sven Köhler and his former fellow student Dr. Christian Holz, who in the meantime has acquired his PhD. For more information, please go to www.christianholz.net/fiberio.html

The German Federal Ministry of Education and Research (BMBF) and Deutsche Messe AG (DMAG) are going to bestow the CeBIT Innovation Award for the second time in 2014. The competition's aggregate prize money is 100,000 euros. The initiators are looking for outstanding innovations that provide the greatest possible degree of user-friendliness and intuitive interaction with IT systems.

The prize winners' exhibits will be put on display at the CeBIT 2014 exhibition at the German Federal Ministry of Education and Research's stand (Hall 9, Stand D40). The ranking order of the three prize winners will also be announced at the CeBIT. For more information, please go to www.cebitaward.de

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