

NEW PUBLICATION

Gerik von Graevenitz

Success criteria and market potential of biometric identification systems

Biometrics has become a key technology for the authentication of humans based upon one or more intrinsic physical or behavioural traits. This investigation proved that the market for biometric systems will further increase to a large degree. The modern biometric methods for authentication are a promising key technology for security systems and have gained precipitously in meaning. Global enterprise activities require complex business models, which have reasonable potential and meet current security needs.

Accelerated by current requirements in the fight against terrorism numerous new procedures have been developed. The available study offers an introduction to the basis of biometrics. This work enables a detailed overview of the state-of-the art of modern and innovative technologies and achieves a comparative evaluation of the strengths and weaknesses of the existing biometric techniques. The industry structural analysis shows a strong level of competition surrounding the best algorithms and procedures as well as the clearing process and the union of Start-ups with a monopolizing process beginning. The sales market analysis shows multi-faceted application possibilities in different industries, and the potential estimation proves high-two digit growth rates. In a worldwide expert questionnaire the strengths and weak points of the procedures are pointed out. Strengths lie in higher security, in the comfort and the speed, whereby costs and error rates are to be found among the weak points. Current barriers are the lack of standards, small interoperability and the availability of few complete solutions, for it however speak numerous isolated solutions with products. It becomes clear, where market potential exists and innovative starting points for its future employment lie. The analysis thereby opens an entry to the current discussion of the employment and the evaluation of biometric techniques.

ManagementWissen *aktuell*

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ISBN-10: 3-8258-9860-1 ISBN-13: 978-3-8258-9860-1

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