

A U S H A N G

FREIE UNIVERSITÄT BERLIN

Fachbereich Mathematik und Informatik

Promotionsbüro, Arnimallee 14, 14195 Berlin

D I S P U T A T I O N

Montag, 11. Februar 2019, 11:00

Ort: Raum 049

(Fachbereich Mathematik und Informatik, Takustr. 9, 14195 Berlin)

Disputation über die Doktorarbeit von

Herrn Nicolas Buchmann

Thema der Dissertation:

Strengthening trust in the identity life cycle Enhancing electronic machine readable travel documents due to advances in security protocols and infrastructure

Thema der Disputation:

BioPACE - Security considerations on extending PACE to a biometric-based connection establishment

Die Arbeit wurde unter der Betreuung von **Prof. Dr. M. Margraf** durchgeführt.

Abstract:

Multiple electronic security protocols are utilized during the communication between inspection system and electronic machine readable travel document (eMRTD), e.g., electronic Passports. These protocols are based on the paradigm of strong cohesion and loose coupling, i.e., each step is designed to ensure only a particular security goal like authenticity and integrity of the data, originality of the chip, or the linkage between the eMRTD and its holder. The BioPACE protocol by Deufel et al. proposes to replace the knowledge-based shared secret of PACE by a biometric-based one and integrates the linkage security goal within the connection establishment. This talk introduces and evaluates the BioPACE protocol, proposes improvements to enhance its features and analyses the expediency of integrating BioPACE into the eMRTD domain.

Die Disputation besteht aus dem o. g. Vortrag, danach der Vorstellung der Dissertation einschließlich jeweils anschließenden Aussprachen.

Interessierte werden hiermit herzlich eingeladen

Der Vorsitzende der Promotionskommission
Prof. Dr. M. Margraf