

Successful Research in the field of Cyber Security on Hardware

IHP scientist Ievgen Kabin received Best Paper Award

Frankfurt (Oder). At the end of June IHP scientist Ievgen Kabin presented the paper “On the Complexity of Attacking Commercial Authentication Products” at the International Conference on New Technologies, Mobility and Security on Canary Island (Spain) and therefore received the Best Paper Award. “We are working on tamper resistant implementations of cryptographic algorithms. In order to get a clearer picture about the challenges an attacker faces, we adopted that role and tried to attack designs not implemented by us. The fact that only very limited information is publicly available for two chips selected caused significant effort to investigate and understand at least the basics of the implementations. We informed the manufactureres about our results and afterwards we reported on our effort to attack the devices in this paper.,” describes Ievgen Kabin the challenges of the work. The Paper was awarded in the frame of a workshop on Cyber Security on Hardware which was taking place for the first time and shows the importance of that research field.

The IEEE conference NTMS aims at fostering advances in the areas of New Technologies, Wireless Networks, Mobile Computing, Ad hoc and Ambient Networks, QoS, Network Security and E-commerce, to mention a few, and provides a dynamic forum for researchers, students and professionals to present their state-of-the-art research and development in these interesting areas.



IHP scientist Ievgen Kabin received the Best Paper Award at 10th IFIP International Conference on New Technologies, Mobility and Security. © Privat



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About IHP:

The IHP is an institute of the Leibniz Association and conducts research and development of silicon-based systems and ultrahigh frequency circuits and technologies including new materials. It develops innovative solutions for application areas such as wireless and broadband communication, security, medical technology, industry 4.0, automotive industry, and aerospace. The IHP employs approximately 300 people. It operates a pilot line for technological developments and the preparation of high-speed circuits with 0.13/0.25 μm BiCMOS technologies, located in a 1000 m² class 1 cleanroom.

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