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Stefan

Mangard

2007 03 12

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information from smart cards. Smart cards are used in many applications including banking, mobile communications, pay TV, and electronic signatures. In all these applications, the security of the smart cards is of crucial importance.

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Power analysis attacks exploit the fact that the instantaneous power consumption of a device built in CMOS technology depends

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on the data it
processes and the
operations it
performs. CMOS
technology is the
predominant
technology for
(cryptographic)
devices

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Power analysis is a form of side channel attack in which the attacker studies the power consumption of a cryptographic

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hardware device.

These attacks rely on basic physical properties of the device:

semiconductor devices are governed by the laws of physics, which dictate that changes in voltages within the device require very small movements of electric charges

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In power analysis
attacks, the attacker
attempts to reveal

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secret information that is stored inside the device, on the basis of the cryptographic device's power consumption. This targeted information is typically a secret key that is used for a cryptographic algorithm, so we refer to this information as the secret key for the

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remainder of this
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Revealing The
Secrets Of
Power Analysis
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With Stefan Mangard
and Thomas Popp,
Oswald is a coauthor
of the book Power
Analysis Attacks:
Revealing the Secrets
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