

# MATSUURA LAB.

## [Cryptography and Information Security]

Department of Informatics and Electronics

Information Security

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### Digital Signature

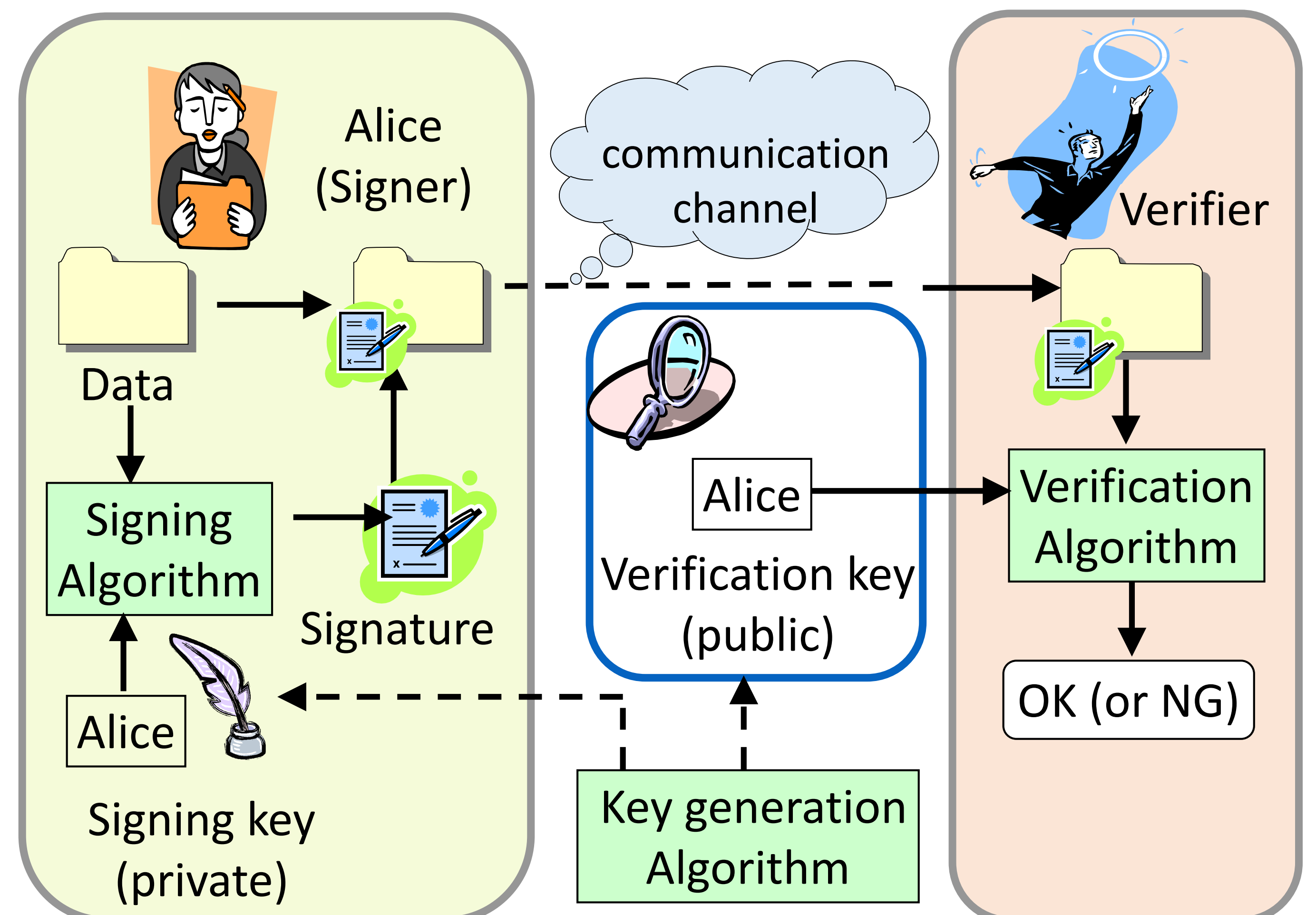
- Cryptographic technology to ensure the integrity of electronic data.
  - Tampering Verification.
  - Spoofing Detection.

### Aggregate Signature

- Signature scheme that aggregates many signatures into one and verifies it.

[Merit] : Efficient signature verification.

[Problem] : The inclusion of even one invalid signature invalidates all.



### Fault-tolerant Aggregate Signature

- Some partially aggregated signatures verify valid signatures.

### Traitor Traceable Aggregate Signature

- Aggregate signature scheme that makes use of traitor tracing.

[Feature] : Tracks and eliminates invalid signatures in aggregate signature.

[Merit] : Enables efficient verification of aggregate signature even if it contains invalid signatures.

