



## Side-Channel and Fault Attacks in Post-quantum Cryptography

Guest Editors:

**Dr. Qian Guo**

Department of Electrical and  
Information Technology, Lund  
University, 221 00 Lund, Sweden

**Dr. Ali Hassan Sodhro**

Department of Computer  
Science, Kristianstad University,  
SE-29188 Kristianstad, Sweden

Deadline for manuscript  
submissions:

**20 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Post-quantum cryptography (PQC) is a research subject investigating public-key cryptographic algorithms that are believed to resist quantum attacks. On July 5, 2022, NIST announced the selected KEM and digital signature candidates to be standardized in their PQC standardization project. The need to securely implement PQC schemes will drastically increase in the coming years as many commercial products or open-source hardware/software have planned the transition to PQC solutions. In this Special Issue, we are particularly interested in discovering new side-channel and fault attacks against known PQC implementations and proposing more efficient and secure countermeasures.

Topics of interest include but are not limited to:

- Power and EM side-channel attacks on post-quantum implementations
- Micro-architectural side-channel attacks on post-quantum implementations
- Masked implementations in post-quantum cryptography
- Efficient constant-time post-quantum implementations
- Fault attacks and countermeasures in post-quantum cryptography
- Attacks and countermeasures on Fully Homomorphic Encryption (FHE) implementations





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Flavio Canavero

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)