



## Artificial Intelligence Applications in Next Generation Communication Infrastructures Security

Guest Editors:

**Dr. George Hatzivasilis**

**Dr. Sotiris Ioannidis**

**Dr. Konstantinos Fysarakis**

**Dr. Nikolaos Papadakis**

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### Message from the Guest Editors

As AI and ML capabilities are integrated into smart devices, they enable novel applications but also advanced cyber defenses. The latter now cover the whole cyber security lifecycle from training, analysis, and design, to the development of accurate forecasting, protection mechanisms, as well as incident response, mitigation, and restoration approaches. The topics of interest include, but are not limited to, the following:

- AI-enhanced system analysis and design
- asset management
- control effectiveness
- threat exposure
- breach risk prediction
- AI security by design
- forecast
- predictive intelligence for security and privacy management
- malware analysis
- bot identification
- AI-based protection mechanisms
- AI-driven defenses
- secure and dependable autonomous systems
- smart device security
- moving target defenses (MTDs)
- reputation- and trust-based computing
- cloud-based AI
- machine learning and blockchaining
- 5G and novel IoT environments
- COVID-19 impact on cyber security





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**Prof. Dr. Flavio Canavero**

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

## Message from the Editor-in-Chief

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

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