Special Issue

Artificial Intelligence in Effective Intrusion Detection for Clouds

Message from the Guest Editor

The goal of this Special Issue is to bring together researchers and practitioners from academia and industry to explore recent advances, challenges, and opportunities in AI-driven intrusion detection for clouds. We invite original research articles and review papers that contribute to the development of innovative AI-based IDS solutions for cloud security. Topics include, but are not limited to, the following:

- Novel AI algorithms and models for intrusion detection in cloud environments;
- Integration of machine learning, deep learning, and data mining in IDS for clouds;
- Adaptive and self-learning IDS systems for dynamic cloud architectures;
- Big data analytics and anomaly detection for cloud security;
- AI-driven threat intelligence and risk assessment in cloud infrastructures;
- Performance evaluation and benchmarking of AI-based IDS solutions;
- Privacy-preserving techniques and ethical considerations in AI-driven intrusion detection;
- Case studies, practical implementations, and real-world applications of AI in cloud security.

Guest Editor

Dr. Stavros Shiaeles

Cyber Security Research Group, School of Computing University of Portsmouth, Portsmouth PO1 2UP, UK

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About the Journal

Message from the Editor-in-Chief

Network provides full coverage of all topics of interest involved in the networking area. The purpose of this journal is to bring together researchers, engineers, and students from academia and industry to present novel ideas and solid research about the theoretical and practical aspects in the application domains of communications and networks. The primary focus of the journal is on the analysis, modeling, design, simulation, and implementation of networks. This journal will also serve to attract research concerning applying networking architectures and scenarios to emerging research topics such as Internet of Things (IoT), edge computing, distributed ledger technology, among others.

Editor-in-Chief

Prof. Dr. Alexey Vinel
School of Information Technology, Halmstad University, 301 18 Halmstad, Sweden

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.9 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the second half of 2024).