

## Special Issue

# Security Challenges and Opportunities of Artificial Intelligence/Big Data Scenarios, 2nd Edition

### Message from the Guest Editors

The convergence of Artificial Intelligence (AI) and Big Data transforms various sectors, bringing unprecedented prospects for innovation and operational efficiency. Bolstered by Big Data's depth and breadth, AI systems are set to revolutionize decision-making, predictive analytics, and personalized services. However, this fusion also poses severe security challenges: as AI relies on vast data for better decisions, it exposes vulnerabilities and sensitive data risks. This Special Issue focuses on technical, experimental, and methodological contributions exploring the interface between security, AI, and Big Data advancement. We welcome papers presenting innovative approaches, strategies, and applications to mitigate security risks and enhance the trustworthiness of AI and Big Data systems. Priority will be given to research advancing the security of these technologies. Key topics: Intrinsic/Derived AI security; Big Data security; Data breaches; AI-enabled security; Malicious use of AI; Ethical AI; Regulatory frameworks; Predictive analytics; Privacy protection; Trustworthy biometrics; Security in satellite network; Cybersecurity; Algorithmic bias; AI data security; AI model security

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### Guest Editors

Dr. Xiaodan Yan  
Dr. Muye Sun  
Dr. Yanping Xu

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### Deadline for manuscript submissions

15 September 2026



## Electronics

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## About the Journal

### 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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

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