

## Special Issue

# Advances in Agentic AI for Big Data Analytics: Intelligent, Scalable, and Autonomous Data-Driven Systems

### Message from the Guest Editor

The aim of this Special Issue is to shed light on the integration of agentic AI and big data analytics by analyzing their theoretical background, design approaches, and applications. Topics of interest include, but are not limited to, the following:

- Agentic AI architectures for big data analytics;
- Autonomous data pipeline orchestration using AI agents;
- Agent-based data integration and preprocessing;
- AI agents for feature engineering and data transformation;
- Multi-agent systems for distributed data analytics;
- Agentic AI for real-time and streaming analytics;
- AI-driven decision-making in big data environments;
- Explainable and trustworthy agentic AI in analytics;
- AI agents for data quality assessment and anomaly detection;
- Integration of agentic AI with cloud, edge, and distributed systems;
- AI agents for predictive and prescriptive analytics;
- Human–AI collaboration in big data analytics systems;
- Security, privacy, and governance issues in agentic AI for big data;
- Benchmarking and evaluation of agentic AI systems in analytics.

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### Guest Editor

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### Deadline for manuscript submissions

15 December 2026



## Electronics

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### 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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