

Special Issue

Innovations in Artificial Intelligence, Natural Language Processing and Big Data

Message from the Guest Editors

The integration of Big Data, AI, and NLP represents a powerful convergence of technologies that enhance each other's capabilities and open new frontiers for innovation and application. These technologies are now essential in many domains. Given the fast advancements and multidisciplinary nature of Big Data, AI, and NLP, the complexity is challenging. Integrating Big Data, AI, and NLP is driving transformative changes across various industries, enhancing capabilities and efficiency and creating new opportunities for innovation. Utilizing AI, NLP, and Big Data has empowered us to achieve once unattainable tasks, such as recognizing intricate patterns and trends, forecasting outcomes, and automating decision-making processes. When combined, Big Data, AI, and NLP create a virtuous cycle of improvement and capability, for example, enhanced learning and insights, real-time processing and decision-making, improved human-machine interaction, and scalable and adaptive systems. This Special Issue aims to provide a comprehensive overview of the innovations, current trends, emerging technologies, and persistent challenges in AI, Big Data, and NLP.

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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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