

Foreword

As the Editor-in-Chief of *HKIE Transactions*, I am delighted to introduce this theme issue on “Deep Learning for IoT Big Data and Streaming Analytics”, which presents pioneering research at the intersection of artificial intelligence, the Internet of Things, and data-driven innovation.

The papers in this issue collectively demonstrate how intelligent technologies are transforming our world through creative, impactful applications. Drawing on social network analysis and game theory, researchers illuminate the dynamics of international collaboration among global enterprises. Advances in deep learning are refining visual aesthetic evaluation for cultural images, while IoT-based automation is optimising plant growth in smart hydroponic greenhouses. In education, artificial intelligence, cloud systems, and virtual and augmented reality are reshaping teaching and learning processes, enhancing engagement and cognitive development. Intelligent computing methods such as multi-objective optimisation further strengthen educational reform by improving resource allocation and interactive learning. Meanwhile, the combination of IoT and deep learning supports automated infrastructure inspection, improving safety and operational reliability.

Together, these contributions highlight the transformative potential of deep learning and IoT across industry, education, culture, and infrastructure. I hope this theme issue will stimulate further research and innovation in these rapidly evolving areas.

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