

## Special Issue

# Industrial Data Mining and Machine Learning Applications

### Message from the Guest Editors

In the era of Industry 4.0, the fields of data mining and machine learning have evolved at a breakneck pace, surpassing human intelligence in uncovering data patterns and refining decision-making processes. Data mining techniques have shown promise in discerning trends and patterns that yield valuable insights for business and management. Conversely, machine learning offers diverse functionalities such as reasoning, clustering, and optimization. These tools are instrumental in making well-informed decisions to tackle complex industrial engineering challenges. This Special Issue aims to address the following critical questions: (i) Why have industrial data mining and machine learning applications not achieved widespread adoption across industries? (ii) How can these applications be effectively implemented within industrial settings? When data mining and machine learning tools are put into practice, the resultant value—be it in terms of sustainability, resilience, or human-centric approaches—can be substantial, fostering the shift towards the next industrial revolution, Industry 5.0. We look forward to your submissions!

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### Guest Editors

Dr. Yung Po Tsang

Dr. C. H. Wu

Prof. Dr. Kit-Fai Pun

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### Deadline for manuscript submissions

closed (30 April 2025)



## Big Data and Cognitive Computing

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## About the Journal

### Message from the Editor-in-Chief

*Big Data and Cognitive Computing (BDCC)* is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

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