Editorial

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Biographical notes: Zheng Xu is currently a Professor at the Shanghai Polytechnic University, China. He is with over 4,000 citations (H-index 31). He has authored or co-authored more than 200 publications. He is also the associate editor of Springer ECR journal and Springer DIoT journal. He won the Best Editor Award of the Year 2022 of Springer Journal Discover Internet of Things. His paper titled 'Ensemble-based multi-filter feature selection method for DDoS detection in cloud computing' obtained EURASIP Best Paper Awards 2019.

Jemal H. Abawajy is a Professor at the School of Information Technology, Deakin University, Australia. He is currently the Director of the Parallel and Distributing Computing Laboratory. He is a Senior Member of the IEEE Technical Committee on Scalable Computing, the IEEE Technical Committee on Dependable Computing and Fault Tolerance, and the IEEE Communication Society. His leadership is extensive, spanning industrial, academic, and professional areas.

We are currently navigating an era overwhelmed with data. The realm of big data boasts a diverse and intricate array of cross-media contents, encompassing text, images, videos, audio, and graphics. Thus far, considerable research endeavours have been individually devoted to big data processing and cross-media mining, yielding robust theoretical foundations and remarkable practical achievements. Nonetheless, research that collectively addresses cross-media big data analytics remains relatively scarce. This research gap merits our heightened attention, given its potential to significantly enhance numerous real-world applications. Despite its profound importance and value, analysing cross-media big data is a formidable challenge, owing to its heterogeneity, vast scale, expanding size, unstructured nature, correlations, and noise. Multi-modal information learning recognised as a pivotal breakthrough in the past decade, has profoundly

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influenced the methodology of data integration and achieved extraordinary progress in both academic and industrial spheres.

This special issue focuses on learning methods to achieve high performance multi-modal information analysis and understanding under uncontrolled environments on a large scale, which is also a very challenging problem. Moreover, it attracts much attention from both the academia and the industry. We hope this topic will aggregate top-level works on the new advances in multi-modal Information from cross-media data.

Acknowledgements

The guest editors wish to thank EiC and Dr. Adrianna Kozierkiewicz for providing the opportunity to edit this special issue. We would also like to thank Journal Manager Alexandra Starkie and the referees who have thoroughly evaluated the papers for their support.