

Special Issue

Data Mining and the Future of Cybersecurity

Message from the Guest Editors

Computer and communication systems are subject to repeated security attacks. In recent years, classification, anomaly detection, and temporal analysis, among other techniques, have all been used to discover and generalize attack patterns in order to develop powerful solutions for coping with the latest threats.

Specifically, the tasks represented in this issue include user authentication through biometrics, SCADA systems vulnerability assessment, user action identification in IoT encrypted traffic, and network anomaly and intrusion detection in large computer networks as well as in small ones such as car controller networks. In order to address all the issues surveyed in this volume, a plethora of approaches are presented, including ensemble methods, one-class classification methods, text mining, transfer learning, data stream mining, and temporal analyses via neural networks. The principal problems tackled by these techniques are problems of reliability, the need to function in different environments, or adaptability to dynamic conditions either due to natural changes to the systems or to adversarial settings.

Guest Editors

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Deadline for manuscript submissions

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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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