Special Issue

Computational Intelligence for Cybersecurity Applications

Message from the Guest Editors

Computational intelligence offers intelligent solutions, based on concepts and methods of artificial intelligence, which are capable of efficiently solving any type of complex problem defined by practical or formal criteria, and can be a source of inspiration for innovative and productive applications in cybersecurity. The present chapter introduces computational intelligence concepts, details the architecture and their main features, and emphasizes the importance of computational intelligence methods in ensuring cybersecurity. Various security domains such as steganography, cryptography, cloud security, and information security show areas where computational intelligence plays a very important role. The chapter also presents an overview of recent works carried out in the application of computational intelligence in cybersecurity. The growth of the internet and the extensive reliance on information technology have made the protection of information a real necessity that is becoming more and more present in our daily lives.

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