Special Issue

Information Hiding and Coding Theory

Message from the Guest Editors

Information hiding technologies such as steganography and watermarking have played important roles in multimedia security and services over the last fifty years. In the last decade, alongside the proliferation of the Internet technologies, information hiding has been increasingly used to provide specialized security guarantees to medical records of scans, X-rays, and reports. The use of information hiding technologies in commercial applications is becoming more popular due to the extraordinary unique special security features they provide to the domain, which are otherwise difficult or expensive to realize using regular methods. The coding theory, which was initially developed to solve errors in communication channels can achieve information hiding primitives. When used in information hiding applications, custom specific coding and decoding techniques are required. Furthermore, the choice of hiding techniques must respect the domain-specific needs of the multimedia application and, accordingly, techniques from machine learning are required to support their use in actual practice.

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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