Special Issue

Image Encryption and Privacy Protection Based on Chaotic Systems

Message from the Guest Editor

Chaos is a universal physical phenomenon in nature and the engineering world, and it is also one of the core research contents of nonlinear science. The application fields of chaotic systems are everywhere, especially in the applications of secure communication, multimedia information encryption, and privacy protection of sensitive information. Chaotic systems have unique application advantages. They can help to carry out chaotic system modeling and can be used in dynamic complexity analysis methods to verify the chaotic behavior of nonlinear systems. The applications of new complex chaotic systems to design high-performance image encryption algorithms and privacy protection schemes have attracted extensive attention. This Special Issue aims to become a forum to introduce new and improved technologies of chaotic system modeling and complexity analysis. In particular, with the help of chaotic system models, combined with new computer technology and artificial intelligence methods, proposing new image encryption algorithms and privacy protection schemes falls within the scope of this Special Issue.

Guest Editor

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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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