Security Management in Sensors for Smart Farming Architectures and Platforms

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Deadline for manuscript submissions:
closed (10 April 2023)

Message from the Guest Editors

Dear Colleagues,

Smart farming is causing a significant impact on how farm exploitations are being managed. By using a plethora of sensors to measure a large number of parameters (i.e., soil conditions, humidity, plant/animal conditions, etc.) a huge amount of data can be gathered in order to obtain valuable information. Once obtained and processed, this information could lead to better decisions and enhanced production rates, which will in turn reduce the consumption of energy and resources (water, fertilizers, silage, antibiotics, etc.). Additionally, autonomous vehicles are being included in farms so as to reduce manual labor.

In this Special Issue, we aim to cover security topics directly related with farming sensors, as well as potential integration of legacy solutions. In addition, novel security mechanisms, such as Blockchain, updated cryptographic solutions or asymmetric cryptography for small sensors that could be applied to sensors used in smart farming are also encouraged. Both theoretical and experimental papers are welcome.

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Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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