Special Issue

Security Informed Safety Assessment and Assurance of Complex Critical Systems

Message from the Guest Editors

Critical (energy grids, transport, industry, business) systems operate in an open physical and informational environment and must be secure in order to be safe. Safety and security co-engineering is a complex domain requiring perfect development and verification processes, detailed risk analysis minimizing uncertainties, and the need for assurance and justification. Considering the influence of security on the safety of critical systems increases, the security informed safety (SIS) approach is one of the key methodologies to guarantee the required safety and its trustworthy assessment. SIS provides an entropy reduction in the safety evaluation process using specific methods. This Special Issue aims to present and discuss the models, methods, and techniques to implement SIS for different critical domains.

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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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Editor-in-Chief

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