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Advances in Uncertain Information Fusion

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Message from the Guest Editors

Information fusion is the combination of information from multiple sources that aims to draw more comprehensive, specific, and accurate inferences about the world than that are achievable from the individual sources in isolation. This topic is relevant in many areas: target tracking and recognition in battlefield surveillance, sensor fusion in robotics, image fusion in computer vision, expert opinion fusion in risk analysis, and so forth. Since sensor data are inherently noisy and human experience/knowledge is inevitably imprecise, ambiguous, or irrelevant, the right handling of such uncertain data is always at the core of any fusion system. This gives rise to a series of both theoretical and practical challenges with focuses on two aspects: (1) how the uncertainty is expressed or quantified? and (2) how uncertain pieces of information can be aggregated?

This Special Issue will focus on the latest advances in uncertain information fusion. Possible theories for managing uncertain information include, but are not limited to, information theory, probability theory, Bayesian inference, fuzzy sets, random sets, rough sets, possibility theory, and belief functions.



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Special Issue



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Message from the Editor-in-Chief

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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