Special Issue

Advances in Computational Intelligence and Soft Computing (CISC) Paradigms: Applications for Environment and Health

Message from the Guest Editor

Computational intelligence and soft computing (CISC) paradigms encompass a number of nature-inspired computational methodologies that encompass three main systems—artificial neural networks (ANNs), fuzzy sets, and evolutionary algorithms (EA) including genetic algorithms (EA/GAs)—and their hybridizations, such as neuro-fuzzy computing and neo-fuzzy systems. Based on their ability to capture the uncertainty, complexity and stochastic nature of the underlying processes, these systems have produced valuable, timely, robust, high quality and human-competitive results that have contributed to artificial intelligence research breakthroughs ranging from deep learning to genetic programming. These powerful methodologies can be used to address a wide range of data analysis problems from environmental forecasting to health, industrial, business, financial, scientific, government and social media applications. In this Special Issue, we invite researchers to contribute high-quality articles and surveys focusing on CISC methods for a wide range of application areas.

Guest Editor

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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