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Computational Intelligence Methods for Difficult Problems

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Message from the Guest Editor

By integrating mathematical concepts, computational intelligence exploits the power of rigorous analytical frameworks to design, analyze, and improve algorithms and models, leading to more robust, efficient, and interpretable systems. Set theory, graph theory, and logics offer formalism foundations for knowledge representations and database theories. Statistical and probabilistic methods are fundamental in machine learning and reasoning under uncertainty. Convex optimization and numerical analysis support resource allocation problems and computational simulations. Algorithm design, data compression, and decision trees rely on entropy measures and information theory. Modelling and simulations are developed on differential equations and dynamical systems.

This Special Issue's goal is to gather papers which propose robust and adaptive methodologies for treating complex problems, at both theoretical and practical levels.

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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