



The Scientific World Journal

Special Issue on
Computational Intelligence for Modeling and Simulation

CALL FOR PAPERS

In the recent days, computational intelligent (CI) systems are acclaimed for their pertinence in imparting human like proficiency such as domain expertise, uncertain reasoning, and decision making in a complex time varying environment, which are vital in tackling real-time computational environment. The existing form of computational techniques suffers in dealing with accuracy, uncertainty, and robustness. Thus, the necessity to devise new CI techniques is obligatory accounting for function approximation and reasoning with systematic random search and optimization.

Modeling of a system is a systemic representation of an environment or context, which involves the abstraction of key aspects of the system under consideration and an effort to represent all attributes as variables. Given the variables with values within the simulation and that the relations among the variables are specified, the model is allowed to be simulated. When real-time problems are modeled, it should have the capacity to handle complex models and underpin sophisticated computational intelligence techniques that accelerate calculations to deliver accurate and insightful results.

The aim of this special issue is to motivate researchers to publish their latest research, up-to-date issues, and challenges in the field of computational intelligence for modeling and simulation. Proposed submissions should be original and unpublished.

Potential topics include, but are not limited to:

- ▶ Mathematical modeling and simulation methods for continuous systems/discrete systems/ nonlinear systems/complex systems
- ▶ Multiparameter modeling, simulation, and optimization of engineering systems
- ▶ Mathematical and algorithmic modeling of CI algorithms for optimization
- ▶ Validation through performance evaluation and real-time simulation tools
- ▶ Application includes renewable energy systems, big data, cloud and ubiquitous computing, smart systems, machine vision, VLSI, and other relevant domains

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/tswj/computer.science/cims/>.

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