*** CALL FOR PAPERS ***

SPECIAL ISSUE ON

"Computer Applications in Modelling and Simulation"
ARRAY Journal, Elsevier
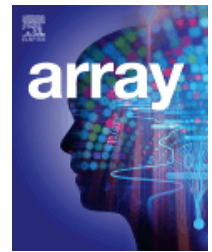
About the Issue :

In the present Computer Age, modelling and simulation is an essential contrivance for representing or characterizing, understanding or analyzing, assessing or solving real-world problems. Computer simulation is nothing but to imitate the reality in an intelligent manner. A simulation can also capture the structure of a computer-graphics reflection that represents dynamic processes in an animated sequence. The discipline of computer simulation has expanded in recent years to include the modelling of systems that rely on human factors and therefore involve a large amount of uncertainty, such as social, economic or commercial systems. Especially in some of the applications such as : designing business and geometry based models, emulating weather patterns, analysis of the behaviour of macroeconomic systems, agriculture(dam and irrigation based projects), the applications of computer simulation has always been incredible. Both simulation and modelling act as major parts of the scientific and engineering process. With the advent of computer simulation in both fields of simulation and modelling, the disciplines are having a dynamic growth in all perspectives. Due to such novel computer applications, it is easy to understand the principles that make simulation and modeling possible in both natural and artificial systems. For instance, Simulations have been used in training and education for years to aid students in gaining the skills needed to complete a task in a low risk environment. Although, simulations are not a new perspective within the new developed engineering curriculum, high committed simulations for the teaching and learning of business with other reciprocal productivity skills emerge to have limited exploration. As such, these problems require a variety of methods to evaluate the phenomena and to proffer a solution. The main intent of this special issue is to cover both the theory and applications of novel computer applications and techniques in various fields including modeling, simulation, robotics, control, machine learning, design and control, hybrid intelligent systems etc., in solving complex engineering problems. It aims to provide an intellectual forum for researchers in academia, as well as scientists and engineers from a wide range of application areas to present their latest research findings in various computer applications to identify future challenges in this novel combination of research areas.

Subject coverage:

Topics include, but are not limited to, the following:

- Problem-solving environments, complex systems
- Swarm Intelligence Techniques
- Robotics
- Pattern Classification
- Computer control system design

- Advanced numerical computation and optimization
- Machine Learning algorithms
- Expert systems
- Quantum inspired soft computing
- Intelligent based control algorithms
- Applications and experience with deployed systems
- Ambient Computing
- Computer applications in information technology and communication
- Learning Classifier Systems
- Hybrid intelligent systems
- Software engineering and management
- Symbolic Machine learning
- Neuro-fuzzy systems
- Nature inspired computing

Important Dates :

- Submission portal will be open from this date: **1ST JUNE 2019**
- Submission Deadline : **25TH SEPTEMBER 2019**
- 1st Revision : **25TH NOVEMBER 2019**
- 2nd Revision (If Required) : **1ST January 2020**
- Final Decision : **1ST February 2020**

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