CALL FOR PAPERS

Demand for lightweight, efficient, and low cost structures seems mandatory because of growing realization of the rarity of raw materials and rapid depletion of convention energy sources. This requires engineers to be aware of optimization techniques. Designing, analyzing, and solving civil engineering problems can be of very large scale and highly nonlinear, and to find solutions to these problems is often very challenging. In the past two decades, soft computing methods are becoming an important class of efficient tools for developing intelligent systems and providing solutions to complicated engineering problems.

The focus of this special issue is on computational methods for solving civil engineering problems. Articles submitted to this special issue can also be concerned about the most significant recent developments on the topics of computational methods and their applications in civil engineering problems. We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to research on applications of the soft computing approaches to solve civil engineering problems.

Potential topics include, but are not limited to:

- Methodologies
- Genetic, evolutionary computation
- Swarm intelligence
- Charged system search
- Neural networks, support vector machines
- Fuzzy logic and fuzzy systems
- Hybrid algorithms
- Domains of applications
- Hydraulic engineering
- Geotechnical engineering
- Transportation engineering
- Structural design, diagnostics, and health monitoring
- Environmental engineering
- Coastal and ocean engineering
- Construction management

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