

Special Issue

Soft Computing Application to Engineering Design

Message from the Guest Editors

Products or machines manufactured through various design and production processes perform the functions intended by the engineer or researcher under various external environments and operating conditions.

However, due to uncertainties in design, manufacturing, and testing, design variables or system parameters may fluctuate, and the desired function may not be

performed properly. Engineering design is one of the most important development processes in various industrial fields such as shipbuilding and offshore systems, automobiles, mechanical systems, architecture, civil engineering etc. In general, in order to increase the reliability of engineering design, a design method that considers the safety factor based on experience has been widely used. Because it is difficult for an engineer or researcher to accurately ascertain the uncertainty occurring in the system, the safety factor is determined mainly based on past experience.

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Deadline for manuscript submissions

closed (20 August 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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