Special Issue

Human Factors Engineering in Complex Socio-Technical Systems

Message from the Guest Editor

Human factors engineering (HFE) aims to design usable, safe, productive, and pleasurable products or systems for daily or professional use. It follows human-centered design, drawing from cognitive psychology, design science, systems engineering, computer science, and management. HFE is highly interdisciplinary and applicable to various domains. In complex socio-technical systems like nuclear power plants, airplanes, and manufacturing facilities, HFE is crucial, requiring comprehensive work domain and task analysis, prioritizing safety. With the integration of advanced technologies, cognitive aspects of user interaction become increasingly important. This Special Issue introduces state-of-the-art research on HFE in complex socio-technical systems, covering topics such as cognitive work analysis, task complexity, human-computer interaction, human performance modeling, error prevention, system safety, resilience engineering, training systems, human-machine interfaces, and information displays.

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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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